

## Selector Guide

Summer/Fall 2014

CORPORATE OVERVIEW

Alpha and Omega Semiconductor Limited (AOS) is a designer, developer and global supplier of a broad range of power semiconductors, including a wide portfolio of Power MOSFET, IGBT and Power IC products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry, which enables it to introduce innovative products to address the increasingly complex power requirements of advanced electronics. AOS differentiates itself by integrating its Discrete and IC semiconductor process technology, product design, and advanced packaging know-how to develop high-performance power management solutions. AOS's products are aimed at, but not limited to applications such as portable computers, tablets, smart phones, flat panel TVs, LED lighting, battery packs, consumer and industrial motor controls, and power supplies for TVs, computers, servers and telecommunications equipment.

|  |                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MARKET SEGMENTS                                                                    |                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                    | Computing / Conventional                                                                                                                                                                                                                                                                                                                       | Computing / Advanced                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Consumer                                                                                                                                                                                                                                                                               | Industrial / Power Supplies                                                                                                                                                                                                                                                                                            | Communications                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| APPLICATIONS                                                                       | <ul style="list-style-type: none"><li>■ Notebooks</li><li>■ Netbooks</li><li>■ Desktops</li><li>■ NB Battery Packs</li><li>■ Game Consoles</li></ul>                                                                                                                                                                                           | <ul style="list-style-type: none"><li>■ Servers</li><li>■ Data Storage Devices</li><li>■ Ultra Notebooks</li><li>■ Tablets</li><li>■ Graphic Cards</li></ul>                                                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"><li>■ TV DC-DC Conversion</li><li>■ LED Drivers</li><li>■ LED Backlighting</li><li>■ White Goods</li></ul>                                                                                                                                           | <ul style="list-style-type: none"><li>■ Motor Controls</li><li>■ Power Supplies</li><li>■ Lighting</li><li>■ Welding</li></ul>                                                                                                                                                                                         | <ul style="list-style-type: none"><li>■ Cell Phones</li><li>■ Telecom Power</li><li>■ Networking</li><li>■ Battery Packs</li></ul>                                                                                                                                                                                                                                                                                                                                              |
| KEY FAMILIES / PLATFORMS                                                           | <ul style="list-style-type: none"><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen 5</li><li>- XSFET Family</li><li>- SGT</li></ul></li><li>■ High Voltage MOSFETs<ul style="list-style-type: none"><li>- 500V-1000V Planar</li><li>- 600V AlphaMOSI and AlphaMOSII</li><li>- 600V IGBT/FRD</li></ul></li></ul> | <ul style="list-style-type: none"><li>■ Power IC<ul style="list-style-type: none"><li>- DC-DC EZBuck</li><li>- DrMOS</li><li>- Smart Load Management</li></ul></li><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen 5</li><li>- XSFET Family</li><li>- SGT</li></ul></li><li>■ High Voltage MOSFETs<ul style="list-style-type: none"><li>- 500V-1000V Planar</li><li>- 600V AlphaMOSI and AlphaMOSII</li><li>- 600V IGBT/FRD</li></ul></li></ul> | <ul style="list-style-type: none"><li>■ Power IC<ul style="list-style-type: none"><li>- DC-DC EZBuck</li><li>- DrMOS</li><li>- Smart Load Management</li></ul></li><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen 5</li><li>- SGT</li></ul></li></ul> | <ul style="list-style-type: none"><li>■ Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- XSFET Family</li><li>- SGT</li></ul></li><li>■ High Voltage MOSFETs<ul style="list-style-type: none"><li>- 500V-1000V Planar</li><li>- 600V AlphaMOSI and AlphaMOSII</li><li>- 600V IGBT/FRD</li></ul></li></ul> | <ul style="list-style-type: none"><li>■ Power IC<ul style="list-style-type: none"><li>- DC-DC EZBuck</li><li>- DrMOS</li><li>- Smart Load Management</li></ul></li><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen 5</li><li>- XSFET Family</li><li>- SGT</li></ul></li><li>■ High Voltage MOSFETs<ul style="list-style-type: none"><li>- 500V-1000V Planar</li><li>- 600V AlphaMOSI and AlphaMOSII</li><li>- 600V IGBT/FRD</li></ul></li></ul> |



DIVERSE CUSTOMER BASE

| Telecom                                                                                                         | Consumer                                                                                  |                                      | PC                                                                     | Industrial                                             |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------|
|                                                                                                                 | Black Goods                                                                               | White Goods                          |                                                                        |                                                        |
| ■ Nokia Siemens Networks<br>■ Efore<br>■ Alcatel-Lucent<br>■ ZTE<br>■ H3C<br>■ Murata<br>■ Belfuse<br>■ Emerson | ■ Haier<br>■ Hisense<br>■ Changhong<br>■ Sony<br>■ Skyworth<br>■ TCL<br>■ LG<br>■ Samsung | ■ Nidec<br>■ Microsteps<br>■ Samsung | ■ Apple<br>■ Dell<br>■ Asus<br>■ Hewlett Packard<br>■ Acer<br>■ Lenovo | ■ Tyco<br>■ BYD<br>■ Emerson<br>■ Chicony<br>■ Philips |

CERTIFICATIONS FOR AOS & APM PLANTS:

- ISO 9001 (Quality Manangement System)  
■ ISO 14001 (Environmental Manangement System)  
■ QC 080000 (Hazardous Substance Manangement System)
- Sony's Green Partner Program  
■ TS16949 (to be certified in 2014)

PASSED AUDITS BY MAJOR CUSTOMERS:

- Alcatel-Lucent  
■ Delta  
■ Hewlett Packard  
■ Microsoft  
■ Panasonic  
■ Sanyo
- Apple  
■ Emerson  
■ Lenovo  
■ Motorola  
■ Philips  
■ Sony
- Dell  
■ General Electric  
■ LG  
■ Nokia Siemens Networks  
■ Samsung

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TABLE OF CONTENTS

Power ICs

DC-DC Buck Regulators - Non Synchronous EZBuck™ Family..... 4

DC-DC Buck Regulators - Synchronous EZBuck™ Family..... 6

DC-DC Boost Regulators - EZBuck™ Family..... 8

Multiple Output Regulators Family..... 8

Smart Load Switches ..... 8

DrMOS™ Power Modules..... 10

Linear Regulators - LDOs..... 10

Power Factor Correction (PFC) ..... 10

Analog Switches ..... 10

High-Speed USB Switches ..... 10

Transient Voltage Suppressors (TVS)

High Current Surge TVS..... 12

Ultra-Low Capacitance TVS ..... 12

Diode Arrays ..... 14

EMI Filters ..... 16

MOSFETs and IGBTs

Low Voltage MOSFETs (<40V)

By Package Type

WLCSP 1.57x1.57 / 1.6x1.6..... 18

AlphaDFN 0.97x0.97 ..... 18

AlphaDFN 1.57x1.57 ..... 18

AlphaDFN 3.2x2.0 ..... 18

SC-70 ..... 18

SC-89 ..... 20

SOT-23 ..... 20

TSOP-6..... 20

TSSOP-8 ..... 22

DFN 1.6x0.6..... 22

DFN 1.6x1.6..... 22

DFN 2x2 ..... 22

DFN 2x5 ..... 24

DFN 3x2 ..... 24

DFN 3x3 ..... 24

DFN 3.3x3.3..... 26

DFN 5x6 ..... 28

SO-8 ..... 32

Ultra SO-8..... 36

TO-220 ..... 36

TO-251A ..... 36

TO-251B ..... 36

TO-252 ..... 36

TO-263 ..... 38

Medium Voltage MOSFETs (40V to 400V)

By Package Type

SC-89 ..... 40

SOT-223 ..... 40

SOT-23..... 40

TSOP-6 ..... 40

DFN 2x2 ..... 40

DFN 3x3 ..... 40

DFN 3.3x3.3 ..... 40

DFN 5x6 ..... 40

SO-8..... 42

Ultra SO-8 ..... 44

TO-220 ..... 44

TO-220F ..... 46

TO-247 ..... 48

TO-251A..... 48

TO-252 ..... 48

TO-262 ..... 50

TO-262F ..... 50

TO-263 ..... 50

High Voltage MOSFETs (>400V)

By Package Type

SOT-23..... 54

DFN 8x8 ..... 54

TO-220 ..... 54

TO-220F ..... 56

TO-247 ..... 58

TO-251 ..... 58

TO-251A..... 60

TO-251B..... 60

TO-252 ..... 60

TO-262 ..... 62

TO-262F ..... 62

TO-263 ..... 64

Insulated-Gate Bipolar Transistors (IGBTs)

By Package Type

TO-220 ..... 66

TO-220F ..... 66

TO-247 ..... 66

TO-252 ..... 66

TO-263 ..... 66

Package Types ..... 68

POWER ICs

AOS provides best-in-class power management solutions combining Power Discrete and IC technologies. The portfolio of EZPower™ smart load switches, analog switches, and power factor correction (PFC) devices. AOS's approach is to provide

products includes EZBuck™ Step-down DC/DC regulators, EZBoost™ Step-up DC/DC regulators, linear regulators, high-power density solutions to reduce design complexity and development time.

DC-DC Buck Regulators – Non Synchronous EZBuck™ Family

| Part Number |     | Description                            | Integrated Schottky | Soft Start              | Product Type | Package          | Min V <sub>IN</sub> (V) | Max V <sub>IN</sub> (V) | Max I <sub>OUT</sub> (A) | Min V <sub>OUT</sub> (V) | Max V <sub>OUT</sub> (V) | Operating Freq. (kHz) |
|-------------|-----|----------------------------------------|---------------------|-------------------------|--------------|------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|-----------------------|
| AOZ1015AI   |     | 1.5 A EZBuck Regulator                 | Yes                 | Internal - 2.2 ms       | Buck         | SO-8             | 4.5                     | 16.0                    | 1.5                      | 0.8                      | 16.0                     | 500                   |
| AOZ1016AI   |     | 2 A EZBuck Regulator                   | Yes                 | Internal - 2.2 ms       | Buck         | SO-8             | 4.5                     | 16.0                    | 2.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1016AIL  |     | 2 A EZBuck Regulator                   | Yes                 | Internal - 2.2 ms       | Buck         | SO-8             | 4.5                     | 18.0                    | 2.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1017AI   |     | 3 A EZBuck Regulator                   | No                  | Internal - 2.2 ms       | Buck         | SO-8             | 4.5                     | 16.0                    | 3.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1017AIL  |     | 3 A EZBuck Regulator                   | No                  | Internal - 2.2 ms       | Buck         | SO-8             | 4.5                     | 18.0                    | 3.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1019AI   |     | 2 A EZBuck Regulator                   | No                  | Internal - 4.0 ms       | Buck         | SO-8             | 4.5                     | 16.0                    | 2.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1056AI   |     | 2 A EZBuck Regulator                   | Yes                 | External - Programmable | Buck         | SO-8             | 4.5                     | 16.0                    | 2.0                      | 0.8                      | 16.0                     | 340                   |
| AOZ1057AIL  |     | 3 A EZBuck Regulator                   | No                  | External - Programmable | Buck         | SO-8             | 4.5                     | 16.0                    | 3.0                      | 0.8                      | 16.0                     | 340                   |
| AOZ1081AI   |     | 1.8 A EZBuck LED Driver                | Yes                 | Internal - 0.4 ms       | Buck         | SO-8             | 4.5                     | 16.0                    | 1.8                      | 0.25                     | 16.0                     | 1000                  |
| AOZ1083CI   |     | 1.2 A EZBuck LED Driver                | No                  | Internal - 0.4 ms       | Buck         | SOT-23           | 3.0                     | 26.0                    | 1.2                      | 0.28                     | 23.8                     | 1500                  |
| AOZ1084DI   |     | 1.2 A EZBuck LED Driver                | No                  | Internal - 0.6 ms       | Buck         | DFN 2x2          | 4.5                     | 36.0                    | 1.2                      | 0.16                     | 30.0                     | 450                   |
| AOZ1092DI   |     | 3 A EZBuck Regulator                   | Yes                 | Internal - 2.2 ms       | Buck         | DFN 5x4          | 4.5                     | 16.0                    | 3.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1094AIL  |     | 5 A EZBuck Regulator                   | No                  | Internal - 3.0 ms       | Buck         | SO-8             | 4.5                     | 16.0                    | 5.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1094DIL  |     | 5 A EZBuck Regulator                   | No                  | Internal - 3.0 ms       | Buck         | DFN 5x4          | 4.5                     | 16.0                    | 5.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1210AI   |     | 2 A, 4.5 V to 27 V EZBuck Regulator    | No                  | Internal - 4.0 ms       | Buck         | SO-8             | 4.5                     | 27.0                    | 2.0                      | 0.8                      | 23.0                     | 370                   |
| AOZ1212AI   |     | 3 A, 4.5 V to 27 V EZBuck Regulator    | No                  | Internal - 6.0 ms       | Buck         | SO-8             | 4.5                     | 27.0                    | 3.0                      | 0.8                      | 23.0                     | 370                   |
| AOZ1212DI   |     | 3 A, 4.5 V to 27 V EZBuck Regulator    | No                  | Internal - 6.0 ms       | Buck         | DFN 5x4          | 4.5                     | 27.0                    | 3.0                      | 0.8                      | 23.0                     | 370                   |
| AOZ1240AI   |     | 2 A, 4.5 V to 32 V EZBuck Regulator    | No                  | Internal - 4.0 ms       | Buck         | SO-8             | 4.5                     | 32.0                    | 2.0                      | 0.8                      | 32.0                     | 370                   |
| AOZ1242AI   |     | 3 A, 4.5 V to 32 V EZBuck Regulator    | No                  | Internal - 4.0 ms       | Buck         | SO-8             | 4.5                     | 32.0                    | 3.0                      | 0.8                      | 32.0                     | 370                   |
| AOZ1242DI   |     | 3 A, 4.5 V to 32 V EZBuck Regulator    | No                  | Internal - 4.0 ms       | Buck         | DFN 5x4          | 4.5                     | 32.0                    | 3.0                      | 0.8                      | 32.0                     | 370                   |
| AOZ1280CI   |     | 1.2 A, 3 V to 26 V EZBuck Regulator    | No                  | Internal - 0.4 ms       | Buck         | SOT-23           | 3.0                     | 26.0                    | 1.2                      | 0.8                      | 26.0                     | 1500                  |
| AOZ1281DI   |     | 1.8 A, 3 V to 26 V EZBuck Regulator    | No                  | Internal - 0.4 ms       | Buck         | DFN 2x2          | 3.0                     | 26.0                    | 1.8                      | 0.8                      | 22.0                     | 1500                  |
| AOZ1282CI   |     | 1.2 A, 4.5 V to 36 V EZBuck Regulator  | No                  | Internal - 1.5 ms       | Buck         | SOT-23           | 4.5                     | 36.0                    | 1.2                      | 0.8                      | 36.0                     | 450                   |
| AOZ1282CI-1 | NEW | 600 mA, 4.5 V to 36 V EZBuck Regulator | No                  | Internal - 0.6 ms       | Buck         | SOT-23           | 4.5                     | 36.0                    | 0.6                      | 0.8                      | 36.0                     | 1000                  |
| AOZ1282DI   |     | 1.2 A, 4.5 V to 36 V EZBuck Regulator  | No                  | Internal - 1.5 ms       | Buck         | DFN 2x2          | 4.5                     | 36.0                    | 1.2                      | 0.8                      | 36.0                     | 450                   |
| AOZ1283PI   |     | 2.5 A, 3 V to 36 V EZBuck Regulator    | No                  | External - Programmable | Buck         | Exposed Pad SO-8 | 3.0                     | 36.0                    | 2.5                      | 0.8                      | 30.0                     | 2000                  |
| AOZ1284PI-1 |     | 4 A, 3 V to 36 V EZBuck Regulator      | No                  | External - Programmable | Buck         | Exposed Pad SO-8 | 3.0                     | 36.0                    | 4.0                      | 0.8                      | 16.0                     | 2000                  |
| AOZ1948AI   |     | Single Channel LED Driver Controller   | N/A                 | N/A                     | Buck         | SO-8             | 8.0                     | 16.0                    | N/A                      | N/A                      | N/A                      | 100                   |

DC-DC Buck Regulators – Synchronous EZBuck™ Family

| Part Number         | Description                                   | PGOOD      | Soft Start                     | Product Type | Package          | Min V <sub>IN</sub> (V) | Max V <sub>IN</sub> (V) | Max I <sub>OUT</sub> (A) | Min V <sub>OUT</sub> (V) | Max V <sub>OUT</sub> (V) | Operating Freq. (kHz) |
|---------------------|-----------------------------------------------|------------|--------------------------------|--------------|------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|-----------------------|
| AOZ1020AI           | 2 A EZBuck Regulator with PGOOD               | Yes        | Internal - 4.0 ms              | Buck         | SO-8             | 4.5                     | 16.0                    | 2.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1021AI           | 3 A EZBuck Regulator                          | No         | Internal - 5.0 ms              | Buck         | SO-8             | 4.5                     | 16.0                    | 3.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1022PI           | 3 A EZBuck Regulator with PGOOD               | Yes        | Internal - 5.0 ms              | Buck         | DFN 5x4          | 4.5                     | 16.0                    | 3.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1022DI-1         | 3 A EZBuck Regulator with PGOOD               | Yes        | Internal - 5.0 ms              | Buck         | DFN 5x4          | 4.5                     | 16.0                    | 3.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1024DI           | 4 A EZBuck Regulator                          | No         | Internal - 5.0 ms              | Buck         | DFN 5x4          | 4.5                     | 16.0                    | 4.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1025DIL          | 8 A EZBuck Regulator with PGOOD               | Yes        | Internal - 4.0 ms              | Buck         | DFN 5x4          | 4.75                    | 16.0                    | 8.0                      | 0.8                      | 16.0                     | 500                   |
| AOZ1031AI           | 3 A EZBuck Regulator with Light Load Mode     | No         | Internal - 2.2 ms              | Buck         | SO-8             | 4.5                     | 18.0                    | 3.0                      | 0.8                      | 18.0                     | 600                   |
| AOZ1033AI           | 3 A EZBuck Regulator with Light Load Mode     | No         | Internal - 3.0 ms              | Buck         | SO-8             | 4.5                     | 18.0                    | 3.0                      | 0.8                      | 18.0                     | 600                   |
| AOZ1034DI           | 4 A EZBuck Regulator with Light Load Mode     | No         | Internal - 3.0 ms              | Buck         | DFN 5x4          | 4.5                     | 18.0                    | 4.0                      | 0.8                      | 18.0                     | 500                   |
| AOZ1034PI           | 4 A EZBuck Regulator with Light Load Mode     | No         | Internal - 3.0 ms              | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 4.0                      | 0.8                      | 18.0                     | 500                   |
| AOZ1036DI           | 5 A EZBuck Regulator with Light Load Mode     | No         | Internal - 3.0 ms              | Buck         | DFN 5x4          | 4.5                     | 18.0                    | 5.0                      | 0.8                      | 18.0                     | 500                   |
| AOZ1036PI           | 5 A EZBuck Regulator with Light Load Mode     | No         | Internal - 3.0 ms              | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 5.0                      | 0.8                      | 18.0                     | 500                   |
| AOZ1037PI           | 5 A EZBuck Regulator with PGOOD               | Yes        | Internal - 3.0 ms              | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 5.0                      | 0.8                      | 18.0                     | 500                   |
| AOZ1038DI           | 6 A EZBuck Regulator with Light Load Mode     | Yes        | Internal - 3.0 ms              | Buck         | DFN 5x6          | 4.5                     | 18.0                    | 6.0                      | 0.8                      | 18.0                     | 500                   |
| AOZ1038DI-1         | 6 A EZBuck Regulator                          | No         | Internal - 6.0 ms              | Buck         | DFN 5x6          | 4.5                     | 18.0                    | 6.0                      | 0.8                      | 16.0                     | 450                   |
| AOZ1038PI           | 6 A EZBuck Regulator with Light Load Mode     | Yes        | Internal - 3.0 ms              | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 6.0                      | 0.8                      | 18.0                     | 500                   |
| AOZ1039DI           | 8 A EZBuck Regulator                          | No         | Internal - 6.0 ms              | Buck         | DFN 5x6          | 4.5                     | 18.0                    | 8.0                      | 0.8                      | 1.2                      | 450                   |
| AOZ1050PI           | 2 A EZBuck Regulator with External Soft-Start | No         | External - Programmable        | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 2.0                      | 0.8                      | 15.3                     | 500                   |
| AOZ1051PI           | 3 A EZBuck Regulator with External Soft-Start | No         | External - Programmable        | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 3.0                      | 0.8                      | 15.3                     | 500                   |
| AOZ1052PI           | 4 A EZBuck Regulator with External Soft-Start | No         | External - Programmable        | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 4.0                      | 0.8                      | 15.3                     | 450                   |
| AOZ1053PI           | 5 A EZBuck Regulator with External Soft-Start | No         | External - Programmable        | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 5.0                      | 0.8                      | 15.3                     | 450                   |
| AOZ1110QI           | 4 A EZBuck Regulator with PGOOD               | Yes        | External - Programmable        | Buck         | QFN 4x4          | 2.7                     | 5.5                     | 4.0                      | 0.8                      | 5.5                      | 1000/500              |
| AOZ1231QI-01        | 4 A COT EZBuck Regulator                      | Yes        | External - Programmable        | Buck         | QFN 5x5          | 4.5                     | 28.0                    | 4.0                      | 0.8                      | 24.0                     | 1000                  |
| AOZ1232QI-01        | 6 A COT EZBuck Regulator                      | Yes        | External - Programmable        | Buck         | QFN 5x5          | 2.7                     | 28.0                    | 6.0                      | 0.8                      | 24.0                     | 1000                  |
| AOZ1233QI-01        | 8 A COT EZBuck Regulator                      | Yes        | External - Programmable        | Buck         | QFN 5x5          | 2.7                     | 28.0                    | 8.0                      | 0.8                      | 24.0                     | 1000                  |
| <b>AOZ1236QI-01</b> | <b>NEW</b> 6 A COT EZBuck Regulator           | <b>Yes</b> | <b>Adjustable</b>              | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>2.7</b>              | <b>28.0</b>             | <b>6.0</b>               | <b>0.8</b>               | <b>24.0</b>              | <b>1000</b>           |
| <b>AOZ1236QI-02</b> | <b>NEW</b> 6 A COT EZBuck Regulator           | <b>Yes</b> | <b>Adjustable</b>              | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>2.7</b>              | <b>24.0</b>             | <b>6.0</b>               | <b>0.8</b>               | <b>20.0</b>              | <b>1000</b>           |
| <b>AOZ1237QI-01</b> | <b>NEW</b> 8 A COT EZBuck Regulator           | <b>Yes</b> | <b>External - Programmable</b> | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>2.7</b>              | <b>28.0</b>             | <b>8.0</b>               | <b>0.8</b>               | <b>24.0</b>              | <b>1000</b>           |
| AOZ1237QI-02        | 8 A COT EZBuck Regulator                      | Yes        | External - Programmable        | Buck         | QFN 4x4          | 2.7                     | 24.0                    | 8.0                      | 0.8                      | 20.0                     | 1000                  |
| AOZ1252PI           | 2 A EZBuck with Light Load Mode               | No         | Adjustable                     | Buck         | Exposed Pad SO-8 | 4.5                     | 26.0                    | 2.0                      | 0.6                      | 26.0                     | 620                   |
| AOZ1253PI           | 3 A EZBuck with Light Load Mode               | No         | Adjustable                     | Buck         | Exposed Pad SO-8 | 4.5                     | 26.0                    | 3.0                      | 0.6                      | 26.0                     | 620                   |
| AOZ1254PI           | 4 A EZBuck with Light Load Mode               | No         | Adjustable                     | Buck         | Exposed Pad SO-8 | 4.5                     | 26.0                    | 4.0                      | 0.6                      | 22.0                     | 620                   |
| <b>AOZ1267QI-01</b> | <b>NEW</b> 8 A COT EZBuck Regulator           | <b>Yes</b> | <b>Adjustable</b>              | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>2.7</b>              | <b>28.0</b>             | <b>8.0</b>               | <b>0.8</b>               | <b>24.0</b>              | <b>1000</b>           |
| <b>AOZ1267QI-02</b> | <b>NEW</b> 8 A COT EZBuck Regulator           | <b>Yes</b> | <b>Adjustable</b>              | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>2.7</b>              | <b>24.0</b>             | <b>8.0</b>               | <b>0.8</b>               | <b>20.0</b>              | <b>1000</b>           |
| <b>AOZ1268QI-01</b> | <b>NEW</b> 10 A COT EZBuck Regulator          | <b>Yes</b> | <b>Adjustable</b>              | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>6.5</b>              | <b>28.0</b>             | <b>10.0</b>              | <b>0.8</b>               | <b>24.0</b>              | <b>1000</b>           |
| <b>AOZ1268QI-02</b> | <b>NEW</b> 10 A COT EZBuck Regulator          | <b>Yes</b> | <b>Adjustable</b>              | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>6.5</b>              | <b>24.0</b>             | <b>10.0</b>              | <b>0.8</b>               | <b>20.0</b>              | <b>1000</b>           |
| <b>AOZ1269QI-02</b> | <b>NEW</b> 12 A COT EZBuck Regulator          | <b>Yes</b> | <b>Adjustable</b>              | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>2.7</b>              | <b>28.0</b>             | <b>12.0</b>              | <b>0.8</b>               | <b>24.0</b>              | <b>1000</b>           |
| AOZ1605DI           | 500 mA, 3 MHz Sync Buck with Light Load Mode  | No         | Internal - 0.7 ms              | Buck         | DFN 2x2          | 2.5                     | 5.5                     | 0.5                      | 0.6                      | 5.5                      | 3000                  |
| AOZ1615DI           | 1.5 A ,3 MHz Sync Buck Regulator              | No         | Internal - 0.7 ms              | Buck         | DFN 2x3          | 2.5                     | 5.5                     | 1.5                      | 0.6                      | 5.5                      | 3000                  |
| <b>AOZ2236QI-01</b> | <b>NEW</b> 6 A COT EZBuck Regulator           | <b>Yes</b> | <b>Adjustable</b>              | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>2.7</b>              | <b>28.0</b>             | <b>6.0</b>               | <b>0.8</b>               | <b>24.0</b>              | <b>1000</b>           |
| <b>AOZ2237QI-01</b> | <b>NEW</b> 8 A COT EZBuck Regulator           | <b>Yes</b> | <b>Adjustable</b>              | <b>Buck</b>  | <b>QFN 4x4</b>   | <b>2.7</b>              | <b>28.0</b>             | <b>8.0</b>               | <b>0.8</b>               | <b>24.0</b>              | <b>1000</b>           |
| AOZ3010PI           | 2 A EZBuck with External Soft-Start           | No         | External - Programmable        | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 2.0                      | 0.8                      | 15.3                     | 500                   |
| AOZ3011PI           | 3 A EZBuck with External Soft-Start           | No         | External - Programmable        | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 3.0                      | 0.8                      | 15.3                     | 500                   |
| AOZ3013PI           | 3 A EZBuck with External Soft-Start           | No         | External - Programmable        | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 3.0                      | 0.8                      | 15.3                     | 500                   |
| AOZ3015AI           | 3 A EZBuck with Light Load Mode               | No         | Internal - 5.0 ms              | Buck         | SO-8             | 4.5                     | 18.0                    | 3.0                      | 0.8                      | 15.3                     | 500                   |
| AOZ3015PI           | 3 A EZBuck with Light Load Mode               | No         | Internal - 5.0 ms              | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 3.0                      | 0.8                      | 15.3                     | 500                   |
| AOZ3017PI           | 4 A EZBuck with External Soft-Start           | No         | External - Programmable        | Buck         | Exposed Pad SO-8 | 4.5                     | 18.0                    | 4.0                      | 0.8                      | 15.3                     | 500                   |

DC-DC Buck Regulators – Synchronous EZBuck™ Family *(Continued)*

| Part Number      | Description                         | PGOOD     | Soft Start              | Product Type | Package                 | Min V <sub>IN</sub> (V) | Max V <sub>IN</sub> (V) | Max I <sub>OUT</sub> (A) | Min V <sub>OUT</sub> (V) | Max V <sub>OUT</sub> (V) | Operating Freq. (kHz) |
|------------------|-------------------------------------|-----------|-------------------------|--------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|-----------------------|
| AOZ3018PI        | 5 A EZBuck with External Soft-Start | No        | External - Programmable | Buck         | Exposed Pad SO-8        | 4.5                     | 18.0                    | 5.0                      | 0.8                      | 15.3                     | 500                   |
| AOZ3024PI        | 3 A EZBuck with Power Good          | Yes       | Internal - 4.5 ms       | Buck         | Exposed Pad SO-8        | 4.5                     | 18.0                    | 3.0                      | 0.8                      | 15.3                     | 500                   |
| <b>AOZ3046PI</b> | <b>NEW</b> 4 A EZBuck Regulator     | <b>No</b> | <b>Internal - 4 ms</b>  | <b>Buck</b>  | <b>Exposed Pad SO-8</b> | <b>7.5</b>              | <b>18.0</b>             | <b>4.0</b>               | <b>0.8</b>               | <b>15.3</b>              | <b>500</b>            |
| <b>AOZ3048PI</b> | <b>NEW</b> 5 A EZBuck Regulator     | <b>No</b> | <b>Internal - 4 ms</b>  | <b>Buck</b>  | <b>Exposed Pad SO-8</b> | <b>7.5</b>              | <b>18.0</b>             | <b>5.0</b>               | <b>0.8</b>               | <b>15.3</b>              | <b>500</b>            |

DC-DC Boost Regulators – EZBoost™ Family

| Part Number | Description                              | Integrated Schottky | Product Type | Package | Min V <sub>IN</sub> (V) | Max V <sub>IN</sub> (V) | I <sub>SW</sub> SWITCH CURRENT LIMIT (A) | Min V <sub>OUT</sub> (V) | Max V <sub>OUT</sub> (V) | Operating Freq. (kHz) |
|-------------|------------------------------------------|---------------------|--------------|---------|-------------------------|-------------------------|------------------------------------------|--------------------------|--------------------------|-----------------------|
| AOZ1905DI   | 2.7 V to 5.5 V EZBoost Regulator         | No                  | Boost        | DFN 3x3 | 2.7                     | 5.5                     | 2 A                                      | Vin*1.2                  | 24.0                     | 600 kHz / 1.2 MHz     |
| AOZ1905FI   | 2.7 V to 5.5 V EZBoost Regulator         | No                  | Boost        | MSOP-8  | 2.7                     | 5.5                     | 2 A                                      | Vin*1.2                  | 24.0                     | 600 kHz / 1.2 MHz     |
| AOZ1915DI   | 2.7 V to 5.5 V EZBoost Regulator         | No                  | Boost        | DFN 4x3 | 2.7                     | 5.5                     | 2 A                                      | Vin*1.2                  | 24.0                     | 600 kHz / 1.2 MHz     |
| AOZ1935QI   | 2.7 V to 25 V Boost 30-LED Driver        | No                  | Boost        | QFN 3x3 | 2.7                     | 25.0                    | N/A                                      | Vin*1.2                  | 44.0                     | 800                   |
| AOZ1950DI   | LED EZBoost Driver                       | No                  | Boost        | DFN 3x3 | 2.7                     | 5.5                     | 750                                      | Vin*1.2                  | 57.0                     | Fixed off time        |
| AOZ1977AI   | High Voltage Boost LED Driver Controller | No                  | Boost        | SO-16   | 8.0                     | N/A                     | N/A                                      | N/A                      | N/A                      | Adjustable            |
| AOZ1977AI-1 | High Voltage Boost LED Driver Controller | No                  | Boost        | SO-16   | 8.0                     | N/A                     | N/A                                      | N/A                      | N/A                      | Adjustable            |
| AOZ1978AI   | High Voltage Boost LED Driver Controller | No                  | Boost        | SO-20   | 8.0                     | N/A                     | N/A                                      | N/A                      | N/A                      | 200                   |

Multiple Output Regulator Family

| Part Number | Description                                                        | Number of Outputs | DC/DC Product Type | Package | Min V <sub>IN</sub> (V) | Max V <sub>IN</sub> (V) | Max I <sub>OUT</sub> (A)       | Min V <sub>OUT</sub> (V) | Max V <sub>OUT</sub> (V) | Operating Freq. (kHz) |
|-------------|--------------------------------------------------------------------|-------------------|--------------------|---------|-------------------------|-------------------------|--------------------------------|--------------------------|--------------------------|-----------------------|
| AOZ1213DI   | 3 A EZBuck Regulator with 1 A LDO Controller                       | 2                 | Non-sync Buck      | DFN 4x3 | 4.5                     | 26.0                    | 3 (Buck)<br>1 (LDO controller) | 0.8                      | 22.0                     | 370                   |
| AOZ1214DI   | 3 A EZBuck Regulator with 1 A LDO Controller with Separate Enables | 2                 | Non-sync Buck      | DFN 4x3 | 4.5                     | 28.0                    | 3 (Buck)<br>1 (LDO controller) | 0.8                      | 22.0                     | 370                   |

Smart Load Switches – EZPower™ Family

| Part Number         |            | Description                                 | V <sub>IN</sub> (V) | Turn On Rise Time (T <sub>r</sub> ) | Channel  | Enable                     | Current Limit | Fault Latch | R <sub>DS(ON)</sub> (mOhm) (Typ) | Package          |
|---------------------|------------|---------------------------------------------|---------------------|-------------------------------------|----------|----------------------------|---------------|-------------|----------------------------------|------------------|
| AOZ1310CI-1         |            | Single USB Load Switch                      | 2.7 - 5.5           | 1.5 ms                              | 1        | Active High                | 0.75 A        | Yes         | 80                               | SOT-23           |
| AOZ1312AI-1         |            | Single USB Load Switch                      | 2.7 - 5.5           | 1.5 ms                              | 1        | Active High                | 2.0 A         | Yes         | 70                               | SO-8             |
| AOZ1312EI-1         |            | Single USB Load Switch                      | 2.7 - 5.5           | 1.5 ms                              | 1        | Active High                | 2.0 A         | Yes         | 70                               | eMSOP            |
| AOZ1320CI           |            | Slew Rate Controlled Smart Load Switch      | 1.8 - 5.5           | 100 μs, 0.5 μs, 1.0 ms              | 1        | CMOS/TTL Compatible        | No            | Yes         | 75                               | SOT-23           |
| AOZ1320DI           |            | Slew Rate Controlled Smart Load Switch      | 1.8 - 5.5           | 100 μs, 0.5 μs, 1.0 ms              | 1        | CMOS/TTL Compatible        | No            | Yes         | 75                               | DFN 2x2          |
| AOZ1321DI           |            | Slew Rate Controlled Smart Load Switch      | 1.6 - 5.5           | 1.0 μs, 100 μs, 800 μs              | 1        | CMOS/TTL Compatible        | No            | Yes         | 60                               | DFN 1.2x1.6      |
| AOZ1360AI           |            | EZPower™ Protected Smart Load Switch        | 5.5 - 28            | Adjustable                          | 1        | CMOS/TTL Compatible        | Adjustable    | Yes         | 35                               | SO-8             |
| AOZ1360DI           |            | EZPower™ Protected Smart Load Switch        | 5.5 - 28            | Adjustable                          | 1        | CMOS/TTL Compatible        | Adjustable    | Yes         | 35                               | DFN 4x4          |
| AOZ1361DI           |            | EZPower™ Protected Smart Load Switch        | 5.5 - 28            | Adjustable                          | 1        | CMOS/TTL Compatible        | Adjustable    | Yes         | 35                               | DFN 4x4          |
| <b>AOZ1334DI-01</b> | <b>NEW</b> | <b>Single Channel Smart Load Switch</b>     | <b>0.8 - 5.5</b>    | <b>10 μs</b>                        | <b>1</b> | <b>CMOS/TTL Compatible</b> | <b>10</b>     | <b>No</b>   | <b>5</b>                         | <b>DFN 3x3</b>   |
| <b>AOZ1334DI-02</b> | <b>NEW</b> | <b>Single Channel Smart Load Switch</b>     | <b>0.8 - 5.5</b>    | <b>0.5 ms</b>                       | <b>1</b> | <b>CMOS/TTL Compatible</b> | <b>10</b>     | <b>No</b>   | <b>5</b>                         | <b>DFN 3x3</b>   |
| <b>AOZ1336DI</b>    | <b>NEW</b> | <b>Single Channel Smart Load Switch</b>     | <b>0.8 - 5.5</b>    | <b>Adjustable</b>                   | <b>1</b> | <b>CMOS/TTL Compatible</b> | <b>4</b>      | <b>No</b>   | <b>27</b>                        | <b>DFN 2x2</b>   |
| AOZ1325DI           |            | Dual Slew Rate Controlled Smart Load Switch | 1.6 - 5.5           | 1.0 ms                              | 2        | CMOS/TTL Compatible        | No            | Yes         | 150                              | DFN 3x3          |
| <b>AOZ1331DI</b>    | <b>NEW</b> | <b>Dual Channel Smart Load Switch</b>       | <b>0.8 - 5.5</b>    | <b>Adjustable</b>                   | <b>2</b> | <b>CMOS/TTL Compatible</b> | <b>6.0 A</b>  | <b>No</b>   | <b>20</b>                        | <b>DFN 3x2</b>   |
| AOZ1341AI           |            | Dual USB Load Switch                        | 2.7 - 5.5           | 1.5 ms                              | 2        | CMOS/TTL Compatible        | 1.5 A         | Yes         | 70                               | SO-8             |
| AOZ1341AI-1         |            | Dual USB Load Switch                        | 2.7 - 5.5           | 1.5 ms                              | 2        | CMOS/TTL Compatible        | 1.5 A         | Yes         | 70                               | SO-8             |
| AOZ1341EI           |            | Dual USB Load Switch                        | 2.7 - 5.5           | 1.5 ms                              | 2        | CMOS/TTL Compatible        | 1.5 A         | Yes         | 70                               | eMSOP            |
| AOZ1341EI-1         |            | Dual USB Load Switch                        | 2.7 - 5.5           | 1.5 ms                              | 2        | CMOS/TTL Compatible        | 1.5 A         | Yes         | 70                               | eMSOP            |
| AOZ1342PI           |            | Dual USB Load Switch                        | 2.7 - 5.5           | 1.5 ms                              | 2        | Active Low                 | 2.0 A         | Yes         | 70                               | Exposed Pad SO-8 |
| AOZ1342PI-1         |            | Dual USB Load Switch                        | 2.7 - 5.5           | 1.5 ms                              | 2        | Active High                | 2.0 A         | Yes         | 70                               | Exposed Pad SO-8 |

DrMOS Power Modules

| Part Number         |            | Min V <sub>IN</sub> (V) | Max V <sub>IN</sub> (V) | Max Current (A) | PWM Logic    | Package            |
|---------------------|------------|-------------------------|-------------------------|-----------------|--------------|--------------------|
| AOZ5019QI           |            | 4.5                     | 25.0                    | 30.0            | 5.0 V        | QFN-23: 3.5x5      |
| <b>AOZ5036QI-01</b> | <b>NEW</b> | <b>4.5</b>              | <b>16.0</b>             | <b>60.0</b>     | <b>3.3 V</b> | <b>QFN-40: 6x6</b> |
| AOZ5066QI           |            | 4.5                     | 25.0                    | 60.0            | 5.0 V        | QFN-40: 6x6        |
| AOZ5066QI-01        |            | 4.5                     | 25.0                    | 60.0            | 3.3 V        | QFN-40: 6x6        |

Linear Regulators – LDOs

| Part Number      |            | Min V <sub>IN</sub> (V) | Max V <sub>IN</sub> (V) | Min V <sub>OUT</sub> (V) | Max I <sub>OUT</sub> (A) | Dropout Voltage     | Package                 |
|------------------|------------|-------------------------|-------------------------|--------------------------|--------------------------|---------------------|-------------------------|
| <b>AOZ2002PI</b> | <b>NEW</b> | <b>1.35</b>             | <b>5.5</b>              | <b>0.8</b>               | <b>2.0</b>               | <b>180 mV @ 2 A</b> | <b>Exposed Pad SO-8</b> |
| AOZ2003PI        |            | 1.35                    | 5.5                     | 0.8                      | 3.0                      | 270 mV @ 3 A        | Exposed Pad SO-8        |

Power Factor Correction (PFC)

| Part Number | Description                             | PFC Mode | Freq. Operation | Control Mode | Topology | Max Freq. Limit (Typ.) KHz | V <sub>CC</sub> Max (V) | Drive Capability (mA) | ULVO (V) | OVP Latch | Min On-Time (Typ.) nS | Package |
|-------------|-----------------------------------------|----------|-----------------|--------------|----------|----------------------------|-------------------------|-----------------------|----------|-----------|-----------------------|---------|
| AOZ7110AI   | Critical Conduction Mode PFC Controller | CRM      | Variable        | Voltage      | Step-up  | 350                        | 20.0                    | +300/-800             | 9.5-12   | Yes       | 180                   | SOIC-8  |
| AOZ7111AI   | Critical Conduction Mode PFC Controller | CRM      | Variable        | Voltage      | Step-up  | 350                        | 20.0                    | +300/-800             | 9.5-12   | Yes       | 450                   | SOIC-8  |

Analog Switches

| Part Number | Description | On Resistance R <sub>ON</sub> (Typ.) at 2.7V | On Resistance Flatness RFLAT <sub>(ON)</sub> (Max) at 2.7V | Supply Voltage Range V <sub>CC</sub> | Total Harmonic Distortion THD (Typ.)% | Package        |
|-------------|-------------|----------------------------------------------|------------------------------------------------------------|--------------------------------------|---------------------------------------|----------------|
| AOZ6115CI   | Single SPST | 2.0 Ω at 4.5 V                               | 0.25 Ω at 4.5 V                                            | 1.65 V to 5.5 V                      | 0.005 %                               | SOT-23         |
| AOZ6115HI   | Single SPST | 2.0 Ω at 4.5 V                               | 0.25 Ω at 4.5 V                                            | 1.65 V to 5.5 V                      | 0.005 %                               | SC-70          |
| AOZ6134DI   | Single SPDT | 0.6 Ω at 4.5 V                               | 0.25 Ω at 4.5 V                                            | 1.65 V to 5.5 V                      | 0.002 %                               | DFN 1.2x1.0    |
| AOZ6135HI   | Single SPDT | 0.9 Ω at 4.5 V                               | 0.25 Ω at 4.5 V                                            | 1.65 V to 5.5 V                      | 0.005 %                               | SC-70          |
| AOZ6232QI   | Dual SPDT   | 0.25 Ω                                       | 0.15 Ω                                                     | 1.65 V to 3.3 V                      | 0.024 %                               | QFN10: 2.1x1.6 |
| AOZ6233QI   | Dual SPDT   | 0.35 Ω                                       | 0.15 Ω                                                     | 1.65 V to 3.3 V                      | 0.024 %                               | QFN10: 2.1x1.6 |
| AOZ6234QI   | Dual SPDT   | 0.40 Ω                                       | 0.15 Ω                                                     | 1.65 V to 4.3 V                      | 0.024 %                               | QFN10: 2.1x1.6 |
| AOZ6274QI   | Dual DPDT   | 0.40 Ω                                       | 0.15 Ω                                                     | 1.65 V to 4.3 V                      | 0.024 %                               | QFN16: 3x3     |
| AOZ6275QI   | Dual DPDT   | 0.35 Ω                                       | 0.25 Ω                                                     | 1.65 V to 4.3 V                      | 0.01 %                                | QFN16: 1.8x2.6 |

High-Speed USB Switches

| Part Number | Description                                                       | On Resistance R <sub>ON</sub> (Typ.) at 3.6V | On Capacitance C <sub>(ON)</sub> (Typ.) at 3.3V | Supply Voltage Range V <sub>CC</sub> | -dB Bandwidth Hz (Typ.) | Package        |
|-------------|-------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------|--------------------------------------|-------------------------|----------------|
| AOZ6184QT   | High Speed (USB2.0) DPDT; Bandwidth 1.1 GHz                       | 8.0 Ω                                        | 3.6 Ω                                           | 1.65 V to 4.5 V                      | 1.1 G                   | QFN10: 1.4x1.8 |
| AOZ6185QT   | High Speed (USB2.0) DPDT w/Flat R <sub>ON</sub> Bandwidth 990 MHz | 7.2 Ω                                        | 1.9 Ω                                           | 1.65 V to 4.5 V                      | 990 M                   | QFN10: 1.4x1.8 |
| AOZ6186QT   | High Speed (USB2.0) DPDT; Bandwidth 960 MHz                       | 7.0 Ω                                        | 5.0 Ω                                           | 1.65 V to 4.5 V                      | 960 M                   | QFN10: 1.4x1.8 |

TRANSIENT VOLTAGE SUPPRESSORs (TVS)

AOS provides a family of high current surge and ultra-low capacitance Transient Voltage Suppressor (TVS), Diode Array, Thunderbolt, SATA and Gigabit Ethernet ports. These products may be used to meet the ESD immunity requirement of

and EMI Filtering products that are designed for ESD protection of high-speed interfaces like HDMI, USB3.0, IEEE1394, IEC61000-4-2, Level 4 for mobile, digital consumer, networking, and computing applications.

High Current Surge TVS

| Part Number      | Description                                      | IEC 61000-4-2 (ESD) |                | Protected Lines | Reverse Working Voltage<br>$V_{RWM}$ Max | IEC 61000-4-5 (Lightning) | Channel Input Capacitance<br>I/O - GND Typ. | Channnel Clamp Voltage<br>(Ipp = 5A) $V_{CL}$ Max. | Package            |
|------------------|--------------------------------------------------|---------------------|----------------|-----------------|------------------------------------------|---------------------------|---------------------------------------------|----------------------------------------------------|--------------------|
|                  |                                                  | Contact             | Air            |                 |                                          |                           |                                             |                                                    |                    |
| AOZ8202CI-12     | 1-Line Bidirectional TVS Diode                   | ± 30 kV             | ± 30 kV        | 1               | 12.0 V                                   | 15 A                      | 62 pF                                       | 19.0 V                                             | SOT-23             |
| AOZ8311DI-26     | 1-Line High Surge TVS Diode                      | ± 30 kV             | ± 30 kV        | 1               | 26.0 V                                   | Null                      | 90 pF                                       | 46 V (Ipp = 9 A)                                   | DFN 1.6x 0.8       |
| AOZ8302CI-05     | 2-Line TVS Diode Array                           | ± 30 kV             | ± 30 kV        | 2               | 5.0 V                                    | 32 A                      | 25 pF                                       | 14.0 V (Ipp = 15 A)                                | SOT-23             |
| AOZ8302CI-12     | 2-Line TVS Diode Array                           | ± 30 kV             | ± 30 kV        | 2               | 12.0 V                                   | 24 A                      | 25 pF                                       | 19.0 V (Ipp = 15 A)                                | SOT-23             |
| AOZ8304DI        | Ultra-Low Capacitance TVS Diode Array            | ± 24 kV             | ± 24 kV        | 4               | 3.3 V                                    | 25 A                      | 3.5 pF                                      | 7.0 V                                              | DFN 2.6x2.6        |
| <b>AOZ8318DI</b> | <b>NEW</b> Ultra-Low Capacitance TVS Diode Array | <b>± 30 kV</b>      | <b>± 30 kV</b> | <b>4</b>        | <b>2.5 V</b>                             | <b>25 A</b>               | <b>3.5 pF</b>                               | <b>3.5 V</b>                                       | <b>DFN 2.6x2.6</b> |

Ultra-Low Capacitance TVS

| Part Number   | Description                                             | IEC 61000-4-2 (ESD) |         | Protected Lines | Reverse Working Voltage<br>$V_{RWM}$ Max | Channel Input Capacitance |                | Channnel Clamp Voltage<br>(Ipp=5A) $V_{CL}$ Max. | Package     |
|---------------|---------------------------------------------------------|---------------------|---------|-----------------|------------------------------------------|---------------------------|----------------|--------------------------------------------------|-------------|
|               |                                                         | Contact             | Air     |                 |                                          | I/O - I/O Typ.            | I/O - GND Typ. |                                                  |             |
| AOZ8001AJI-05 | Ultra-Low Capacitance TVS Diode Array                   | ± 30 kV             | ± 30 kV | 2               | 5.5 V                                    | 0.1 pF                    | 2.5 pF         | 15.0 V                                           | SOT-143     |
| AOZ8001AJI-12 | Ultra-Low Capacitance TVS Diode Array                   | ± 30 kV             | ± 30 kV | 2               | 12.5 V                                   | 0.1 pF                    | 2.5 pF         | 18.0 V                                           | SOT-143     |
| AOZ8001DI     | Ultra-Low Capacitance TVS Diode Array                   | ± 8 kV              | ± 15 kV | 2               | 5.5 V                                    | 0.9 pF                    | 1.0 pF         | 11.0 V                                           | DFN 1.6x1.6 |
| AOZ8802ADI    | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 2               | 5.0 V                                    | 0.3 pF                    | 0.6 pF         | 16.5 V                                           | DFN 1.6x1.0 |
| AOZ8881DI-05  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 2               | 5.0 V                                    | 0.3 pF                    | 0.3 pF         | 20.0V                                            | DFN 1.2x1.0 |
| AOZ8882DI-05  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 2               | 5.0 V                                    | 0.3 pF                    | 0.3 pF         | 12.0V                                            | DFN 1.2x1.0 |
| AOZ8000CI     | Ultra-Low Capacitance TVS Diode Array                   | ± 8 kV              | ± 15 kV | 4               | 5.5 V                                    | 0.9 pF                    | 1.0 pF         | 11.0 V                                           | SOT-23      |
| AOZ8000HI     | Ultra-Low Capacitance TVS Diode Array                   | ± 8 kV              | ± 15 kV | 4               | 5.5 V                                    | 0.9 pF                    | 1.0 pF         | 11.0 V                                           | SC-70       |
| AOZ8002DI     | Ultra-Low Capacitance TVS Diode Array                   | ± 8 kV              | ± 15 kV | 4               | 5.5 V                                    | 0.9 pF                    | 1.0 pF         | 12.0 V                                           | DFN 1.6x1.6 |
| AOZ8102DI     | Ultra-Low Capacitance TVS Diode Array                   | ± 20 kV             | ± 20 kV | 4               | 5.5 V                                    | 0.9 pF                    | 1.0 pF         | 12.0 V                                           | DFN 1.6x1.6 |
| AOZ8105CI     | Ultra-Low Capacitance TVS Diode Array w/ Blocking Diode | ± 24 kV             | ± 30 kV | 4               | 5.5 V                                    | 0.43 pF                   | 0.8 pF         | 16.0 V                                           | SOT-23      |
| AOZ8804ADI    | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 4               | 5.0 V                                    | 0.3 pF                    | 0.6 pF         | 16.5 V                                           | DFN 2.5x1.0 |
| AOZ8808DI-03  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 4               | 3.3 V                                    | 0.3 pF                    | 0.6 pF         | 5.0 V                                            | DFN 2.5x1.0 |
| AOZ8808DI-05  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 4               | 5.0 V                                    | 0.3 pF                    | 0.6 pF         | 6.0 V                                            | DFN 2.5x1.0 |
| AOZ8809DI-03  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 4               | 3.3 V                                    | 0.2 pF                    | 0.45 pF        | 5.0 V                                            | DFN 2.5x1.0 |
| AOZ8809DI-05  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 4               | 5.0 V                                    | 0.2 pF                    | 0.45 pF        | 6.0 V                                            | DFN 2.5x1.0 |
| AOZ8818DI-05  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 4               | 5.0 V                                    | 0.3 pF                    | 0.3 pF         | 10.0 V                                           | DFN 2.5x1.0 |
| AOZ8904CIL    | Ultra-Low Capacitance TVS Diode Array                   | ± 24 kV             | ± 24 kV | 4               | 5.5 V                                    | 0.9 pF                    | 1.25 pF        | 14.0 V                                           | SOT-23      |
| AOZ8905CI     | Ultra-Low Capacitance TVS Diode Array                   | ± 8 kV              | ± 15 kV | 4               | 5.0 V                                    | 0.35 pF                   | 0.7 pF         | 22.0 V                                           | SOT-23      |
| AOZ8844DT-05  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 20 kV | 4               | 5.0 V                                    | 0.25 pF                   | 0.5 pF         | 6.5 V                                            | DFN 1.3x0.8 |
| AOZ8806DI-05  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 6               | 5.0 V                                    | 0.3 pF                    | 0.6 pF         | 16.5 V                                           | DFN 1.3x3.3 |
| AOZ8807DI-03  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 6               | 3.3 V                                    | 0.2 pF                    | 0.45 pF        | 10.0 V                                           | DFN 1.3x3.3 |
| AOZ8807DI-05  | Ultra-Low Capacitance TVS Diode Array                   | ± 15 kV             | ± 15 kV | 6               | 5.0 V                                    | 0.2 pF                    | 0.45 pF        | 11.0 V                                           | DFN 1.3x3.3 |
| AOZ8312DI     | Ultra-Low Capacitance TVS Diode Array                   | ± 30 kV             | ± 30 kV | 12              | 2.5 V                                    | 1.2 pF                    | 2.3 pF         | 5.0 V                                            | DFN 3.5x2.5 |

Diode Arrays

| Part Number         | Description                                                 | IEC 61000-4-2 (ESD) |                | Protected Lines | Reverse Working Voltage | Channel Input Capacitance | Channnel Clamp Voltage                        | Package            |
|---------------------|-------------------------------------------------------------|---------------------|----------------|-----------------|-------------------------|---------------------------|-----------------------------------------------|--------------------|
|                     |                                                             | Contact             | Air            |                 | V <sub>RWM</sub> Max    | I/O - GND Typ.            | (I <sub>pp</sub> = 15 A) V <sub>CL</sub> Max. |                    |
| AOZ8131DI           | Ultra-Low Capacitance Bidirectional Single Diode            | ± 24 kV             | ± 24 kV        | 1               | 5.0 V                   | 1.25 pF                   | 20.0 V                                        | DFN1.0x0.6         |
| AOZ8211DI-02        | Low Capacitance Unidirectional Single Diode                 | ± 30 kV             | ± 30 kV        | 1               | 2.5 V                   | 11 pF                     | 9.5 V                                         | DFN1.0x0.6         |
| AOZ8211DI-03        | Low Capacitance Unidirectional Single Diode                 | ± 30 kV             | ± 30 kV        | 1               | 3.3 V                   | 11 pF                     | 10.0 V                                        | DFN1.0x0.6         |
| AOZ8211DI-05        | Low Capacitance Unidirectional Single Diode                 | ± 28 kV             | ± 28 kV        | 1               | 5.0 V                   | 16 pF                     | 10.0 V                                        | DFN1.0x0.6         |
| AOZ8211DI-12        | Low Capacitance Unidirectional Single Diode                 | ± 28 kV             | ± 28 kV        | 1               | 12.0 V                  | 30 pF                     | 21.0 V                                        | DFN1.0x0.6         |
| AOZ8211DI-24        | Low Capacitance Unidirectional Single Diode                 | ± 18 kV             | ± 15 kV        | 1               | 24.0 V                  | 20 pF                     | 37.0 V                                        | DFN1.0x0.6         |
| AOZ8231ADI-02       | Low Capacitance Bidirectional Single Diode                  | ± 30 kV             | ± 30 kV        | 1               | 2.5 V                   | 5.5 pF                    | 13.0 V                                        | DFN1.0x0.6         |
| AOZ8231ADI-03       | Low Capacitance Bidirectional Single Diode                  | ± 30 kV             | ± 30 kV        | 1               | 3.3 V                   | 5.5 pF                    | 14.0 V                                        | DFN1.0x0.6         |
| AOZ8231ADI-05       | Low Capacitance Bidirectional Single Diode                  | ± 30 kV             | ± 30 kV        | 1               | 5.0 V                   | 13 pF                     | 16.0 V                                        | DFN1.0x0.6         |
| AOZ8231ADI-08       | Low Capacitance Bidirectional Single Diode                  | ± 30 kV             | ± 30 kV        | 1               | 8.0 V                   | 23 pF                     | 23.0 V                                        | DFN1.0x0.6         |
| AOZ8231ADI-12       | Low Capacitance Bidirectional Single Diode                  | ± 30 kV             | ± 30 kV        | 1               | 12.0 V                  | 13 pF                     | 27.0 V                                        | DFN1.0x0.6         |
| AOZ8231ADI-24       | Low Capacitance Bidirectional Single Diode                  | ± 15 kV             | ± 18 kV        | 1               | 24.0 V                  | 12 pF                     | 39.0 V                                        | DFN1.0x0.6         |
| AOZ8251DI           | 1-Line Bidirectional TVS Diode                              | ± 25 kV             | ± 30 kV        | 1               | 5.0 V                   | 8 pF                      | 19.5 V                                        | DFN 0.6x0.3        |
| AOZ8811DI           | Ultra-Low Capacitance Single Diode                          | ± 8 kV              | ± 15 kV        | 1               | 5.0 V                   | 0.50 pF                   | 23.0 V                                        | DFN 1.0x0.6        |
| <b>AOZ8821DI-05</b> | <b>NEW</b> Ultra-Low Capacitance Single Diode               | <b>± 15 kV</b>      | <b>± 15 kV</b> | <b>1</b>        | <b>5.0 V</b>            | <b>0.65 pF</b>            | <b>15.0 V</b>                                 | <b>DFN1.0x0.6</b>  |
| AOZ8831DI-05        | Ultra-Low Capacitance Bidirectional Single Diode            | ± 15 kV             | ± 15 kV        | 1               | 5.0 V                   | 0.35 pF                   | 23.0 V                                        | DFN1.0x0.6         |
| <b>AOZ8831DT-03</b> | <b>NEW</b> Ultra-Low Capacitance Bidirectional Single Diode | <b>± 20 kV</b>      | <b>± 20 kV</b> | <b>1</b>        | <b>3.6 V</b>            | <b>0.22 pF</b>            | <b>15.0 V</b>                                 | <b>DFN 1.0x0.6</b> |
| <b>AOZ8831DT-24</b> | <b>NEW</b> Ultra-Low Capacitance Bidirectional Single Diode | <b>± 15 kV</b>      | <b>± 13 kV</b> | <b>1</b>        | <b>24.0 V</b>           | <b>0.35 pF</b>            | <b>48.0 V</b>                                 | <b>DFN 1.0x0.6</b> |
| <b>AOZ8841DI-05</b> | <b>NEW</b> Ultra-Low Capacitance Bidirectional Single Diode | <b>± 25 kV</b>      | <b>± 15 kV</b> | <b>1</b>        | <b>5.0 V</b>            | <b>0.30 pF</b>            | <b>19.5 V</b>                                 | <b>DFN 1.0x0.6</b> |
| AOZ8851DI-05        | Ultra-Low Capacitance Bidirectional Single Diode            | ± 25 kV             | ± 30 kV        | 1               | 5.0 V                   | 0.35 pF                   | 19.5 V                                        | DFN 0.6x0.3        |
| AOZ8212CI-05        | Low Capacitance Bidirectional Diode Arrays                  | ± 30 kV             | ± 30 kV        | 2               | 5.0 V                   | 3.5 pF                    | 15.0 V                                        | SOT-23             |
| AOZ8222DI-05        | 2-Line TVS Diode                                            | ± 20 kV             | ± 20 kV        | 2               | 5.0 V                   | 15 pF                     | 10.0 V                                        | DFN1.0x0.6         |
| AOZ8204DI           | Low Capacitance Diode Arrays                                | ± 30 kV             | ± 30 kV        | 4               | 5.0 V                   | 17 pF                     | 7.0 V                                         | DFN 1.6x1.6        |
| AOZ8224CI-05        | Low Capacitance Bidirectional Diode Arrays                  | ± 30 kV             | ± 30 kV        | 4               | 5.0 V                   | 13 pF                     | 18.0 V                                        | SOT-23             |
| AOZ8234DI           | Low Capacitance 4-Line Diode Array                          | ± 18 kV             | ± 18 kV        | 4               | 5.0 V                   | 13.5 pF                   | 12.0 V                                        | DFN1.45x1.0        |
| AOZ8205DI           | Low Capacitance Diode Arrays                                | ± 30 kV             | ± 30 kV        | 5               | 5.0 V                   | 17 pF                     | 7.0 V                                         | DFN 1.6x1.6        |
| AOZ8235DI           | Low Capacitance 5-Line Diode Array                          | ± 18 kV             | ± 18 kV        | 5               | 5.0 V                   | 13.5 pF                   | 12.0 V                                        | DFN1.45x1.0        |
| AOZ8206DI           | Low Capacitance Diode Arrays                                | ± 20 kV             | ± 20 kV        | 6               | 5.0 V                   | 17 pF                     | 9.0 V                                         | DFN 1.6x1.6        |
| AOZ8208DI           | Low Capacitance Diode Arrays                                | ± 28 kV             | ± 28 kV        | 8               | 5.0 V                   | 17 pF                     | 9.0 V                                         | DFN 1.8x1.2        |

EMI Filters

| Part Number | Description                                              | Filter Type | IEC 61000-4-2 (ESD) |         | Protected Lines | Reverse Working Voltage<br><br>V <sub>RWM</sub> Max | EMI Filter Performance |                                            | Channel Clamp Voltage<br><br>(I <sub>pp</sub> = 12A) V <sub>CL</sub> Max. | Package                  |
|-------------|----------------------------------------------------------|-------------|---------------------|---------|-----------------|-----------------------------------------------------|------------------------|--------------------------------------------|---------------------------------------------------------------------------|--------------------------|
|             |                                                          |             | Contact             | Air     |                 |                                                     | Cut-Off Freq Typ.      | Insertion Loss Typ.                        |                                                                           |                          |
| AOZ8013     | 4-Line EMI Filter with Integrated ESD Protection         | RC          | ± 18 kV             | ± 18 kV | 4               | 5.0 V                                               | 90 MHz                 | -35 dB attenuation from 800 MHz to 2.2 GHz | 9.5 V                                                                     | DFN 2x2                  |
| AOZ8014     | 4-Line EMI Filter with Integrated ESD Protection         | RC          | ± 17 kV             | ± 17 kV | 4               | 5.0 V                                               | 125 MHz                | -25 dB attenuation from 800 MHz to 3.0 GHz | 8.5 V                                                                     | DFN 2x2                  |
| AOZ8033     | 4-Line EMI Filter with Integrated ESD Protection         | RC          | ± 20 kV             | ± 20 kV | 4               | 5.0 V                                               | 90 MHz                 | -35 dB attenuation from 800 MHz to 3.0 GHz | 10.0 V                                                                    | DFN 1.8x1.2, 0.4mmPitch  |
| AOZ8043     | 4-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 20 kV             | ± 20 kV | 4               | 5.0 V                                               | 250 MHz                | -20 dB attenuation from 1 GHz to 3.0 GHz   | 10.0 V                                                                    | DFN 1.8x1.2, 0.4mmPitch  |
| AOZ8073     | 4-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 15 kV             | ± 15 kV | 4               | 5.0 V                                               | 220 MHz                | -20 dB attenuation from 700 MHz to 3.0 GHz | 14.0 V                                                                    | DFN 1.8x1.2, 0.4mmPitch  |
| AOZ8533     | 4-Line EMI Filter with Integrated ESD Protection         | LC          | ± 20 kV             | ± 20 kV | 4               | 5.0 V                                               | 450 MHz                | -25 dB attenuation from 800 MHz to 5.0 GHz | 12.0 V                                                                    | DFN 1.8x1.2, 0.4mmPitch  |
| AOZ8015     | 6-Line EMI Filter with Integrated ESD Protection         | RC          | ± 17 kV             | ± 17 kV | 6               | 5.0 V                                               | 100 MHz                | -30 dB attenuation from 800 MHz to 3.0 GHz | 11.0 V                                                                    | DFN 3x1.35               |
| AOZ8025     | 6-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 20 kV             | ± 20 kV | 6               | 5.0 V                                               | 250 MHz                | -20 dB attenuation from 1 GHz to 3.0 GHz   | 10.0 V                                                                    | DFN 3x1.35               |
| AOZ8035     | 6-Line EMI Filter with Integrated ESD Protection         | RC          | ± 20 kV             | ± 20 kV | 6               | 5.0 V                                               | 90 MHz                 | -30 dB attenuation from 800 MHz to 3.0 GHz | 10.0 V                                                                    | DFN 2.5x1.2, 0.4mmPitch  |
| AOZ8045     | 6-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 20 kV             | ± 20 kV | 6               | 5.0 V                                               | 250 MHz                | -20 dB attenuation from 1 GHz to 3.0 GHz   | 10.0 V                                                                    | DFN 2.5x1.2, 0.4mmPitch  |
| AOZ8075     | 6-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 15 kV             | ± 15 kV | 6               | 5.0 V                                               | 220 MHz                | -20 dB attenuation from 700 MHz to 3.0 GHz | 14.0 V                                                                    | DFN 2.5x1.2, 0.4mmPitch  |
| AOZ8175     | 6-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 15 kV             | ± 15 kV | 6               | 5.0 V                                               | 220 MHz                | -20 dB attenuation from 700 MHz to 3.0 GHz | 14.0 V                                                                    | DFN 3x1.35               |
| AOZ8535     | 6-Line EMI Filter with Integrated ESD Protection         | LC          | ± 20 kV             | ± 20 kV | 6               | 5.0 V                                               | 450 MHz                | -25 dB attenuation from 800MHz to 5.0 GHz  | 12.0 V                                                                    | DFN 2.5x1.2, 0.4mmPitch  |
| AOZ8010     | 8-Line EMI Filter with Integrated ESD Protection         | RC          | ± 18 kV             | ± 18 kV | 8               | 5.0 V                                               | 90 MHz                 | -35 dB attenuation from 800 MHz to 2.2 GHz | 9.5 V                                                                     | DFN 4x1.6                |
| AOZ8011     | 8-Line EMI Filter with Integrated ESD Protection         | RC          | ± 17 kV             | ± 17 kV | 8               | 5.0 V                                               | 125 MHz                | -25dB attenuation from 800 MHz to 3.0 GHz  | 8.5 V                                                                     | DFN 4x1.6                |
| AOZ8020     | 8-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 20 kV             | ± 20 kV | 8               | 5.0 V                                               | 250 MHz                | -20 dB attenuation from 1 GHz to 3.0 GHz   | 10.0 V                                                                    | DFN 4x1.6                |
| AOZ8030     | 8-Line EMI Filter with Integrated ESD Protection         | RC          | ± 20 kV             | ± 20 kV | 8               | 5.0 V                                               | 90 MHz                 | -35 dB attenuation from 800 MHz to 3.0 GHz | 10.0 V                                                                    | DFN 3.5x1.2, 0.4mm Pitch |
| AOZ8040     | 8-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 20 kV             | ± 20 kV | 8               | 5.0 V                                               | 250 MHz                | -20 dB attenuation from 1 GHz to 3.0 GHz   | 10.0 V                                                                    | DFN 3.5x1.2, 0.4mm Pitch |
| AOZ8070     | 8-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 15 kV             | ± 15 kV | 8               | 5.0 V                                               | 220 MHz                | -20 dB attenuation from 700 MHz to 3.0 GHz | 14.0 V                                                                    | DFN 3.5x1.2, 0.4mm Pitch |
| AOZ8170     | 8-Line Low Cap EMI Filter with Integrated ESD Protection | RC          | ± 15 kV             | ± 15 kV | 8               | 5.0 V                                               | 220 MHz                | -20 dB attenuation from 700 MHz to 3.0 GHz | 14.0 V                                                                    | DFN 4x1.6                |
| AOZ8510     | 8-Line EMI Filter with Integrated ESD Protection         | LC          | ± 18 kV             | ± 24 kV | 8               | 5.0 V                                               | 155 MHz                | -40 dB attenuation from 800 MHz to 3.0 GHz | 12.0 V                                                                    | DFN 4x1.6                |
| AOZ8530     | 8-Line EMI Filter with Integrated ESD Protection         | LC          | ± 24 kV             | ± 30 kV | 8               | 5.0 V                                               | 450 MHz                | -25 dB attenuation from 800 MHz to 5.0 GHz | 12.0 V                                                                    | DFN 3.5x1.2, 0.4mm Pitch |

MOSFETS AND IGBTs

AOS pioneered the fab lite model in the Trench Power MOSFET field, developing leading-edge products that are exclusively headquarters and are then produced with its very efficient manufacturing model. Our product portfolio covers 6V to 1000V

manufactured in state-of-the-art 8-inch fabs. Advanced proprietary silicon and packaging processes are designed in AOS's U.S. MOSFETs and currently 600V and 1350V IGBTs, with other voltages soon to come.

Low Voltage MOSFETs

| Part Number               | Package         | Configuration | Popular Application | Type | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |       | P <sub>D</sub> (W) |      | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |       |       |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |  |
|---------------------------|-----------------|---------------|---------------------|------|-----------|----------------|---------------|---------------------|----------------------|--------------------|-------|--------------------|------|---------------------------------------------------|-------|-------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|--|
|                           |                 |               |                     |      |           |                |               |                     |                      | 25°C               | 70°C  | 25°C               | 70°C | 10V                                               | 4.5V  | 2.5V  | 1.8V | 1.5V | 1.2V |                             |                       |                       |                       |                      |                         |                          |  |
| WLCSP 1.57x1.57 / 1.6x1.6 |                 |               |                     |      |           |                |               |                     |                      |                    |       |                    |      |                                                   |       |       |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOC2411                   | WLCSP 1.6x1.6   | Single        | Load Switch         | P    | No        | No             |               | -30                 | 12                   | -3.4               |       | 0.8                |      |                                                   | 45*   | 60*   |      |      |      | -1.4                        | 1253                  | 105                   | 12.5*                 | 3.2*                 | 14                      | 150                      |  |
| AOC2800                   | WLCSP 1.57x1.57 | Common Drain  | Load Switch         | N    | No        | No             |               | 30                  | 12                   | 6                  |       | 1.3                |      |                                                   | 21*   | 30.5* |      |      |      | 1.5                         | 984                   | 57                    | 9.1                   |                      | 320                     | 3800                     |  |
| AOC2802                   | WLCSP 1.57x1.57 | Common Drain  | Load Switch         | N    | No        | No             |               | 20                  | 12                   | 6                  |       | 1.3                |      |                                                   | 17*   | 27*   |      |      |      | 1.5                         | 984                   | 57                    | 9.1                   |                      | 320                     | 3800                     |  |
| AlphaDFN 0.97x0.97        |                 |               |                     |      |           |                |               |                     |                      |                    |       |                    |      |                                                   |       |       |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOC2422                   | MCSP 0.97x0.97  | Single        | General Purpose     | N    | Yes       | No             |               | 6                   | 5                    | 3.5                |       | 0.6                |      |                                                   |       | 33    | 38   | 43   | 58   | 0.8                         | 870                   | 155                   | 9.5                   | 2                    | 1000                    | 3000                     |  |
| AOC2421                   | MCSP 0.97x0.97  | Single        | Load Switch         | P    | Yes       | No             |               | -8                  | 5                    | -2.5               |       | 0.6                |      |                                                   |       | 60    | 72   | 85   | 115  | -0.7                        | 750                   | 104                   | 7.5                   | 1                    | 285                     | 1870                     |  |
| AOC2403                   | MCSP 0.97x0.97  | Single        | Load Switch         | P    | No        | No             |               | -20                 | 8                    | -1.8               |       | 0.45               |      |                                                   | 95*   | 115*  | 150* | 200* |      | -1                          | 405                   | 45                    | 4.8*                  | 1*                   | 7.5                     | 95                       |  |
| AOC2423                   | MCSP 0.97x0.97  | Single        | Load Switch         | P    | Yes       | No             |               | -20                 | 12                   | -2                 |       | 0.6                |      | 80                                                | 95    | 120   |      |      |      | 1.2                         | 470                   | 60                    | 5                     | 0.5                  | 7.5                     | 50                       |  |
| AlphaDFN 1.57x1.57        |                 |               |                     |      |           |                |               |                     |                      |                    |       |                    |      |                                                   |       |       |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOC2412                   | MCSP 1.57x1.57  | Single        | General Purpose     | N    | Yes       | No             |               | 20                  | 8                    | 4.5                |       | 0.55               |      |                                                   | 23    | 26    | 30   |      |      | 1                           | 1842                  | 70                    | 21.5                  | 4.5                  | 2500                    | 5000                     |  |
| AOC2414                   | MCSP 1.57x1.57  | Single        | General Purpose     | N    | Yes       | No             |               | 8                   | 5                    | 4.5                |       | 0.55               |      |                                                   |       | 19    | 21   | 24   | 29   | 0.8                         | 2042                  | 298                   | 21.5                  | 4.5                  | 2500                    | 5000                     |  |
| AOC2413                   | MCSP 1.57x1.57  | Single        | Load Switch         | P    | No        | No             |               | -8                  | 5                    | -3.5               |       | 0.55               |      |                                                   |       | 28    | 32   | 37   | 47   | -0.65                       | 1935                  | 240                   | 19                    | 3.5                  | 1600                    | 2700                     |  |
| AOC2415                   | MCSP 1.57x1.57  | Single        | Load Switch         | P    | Yes       | No             |               | -20                 | 8                    | -3.5               |       | 0.55               |      |                                                   | 33    | 38    | 45   | 54   |      | -1                          | 1685                  | 150                   | 19                    | 5.5                  | 650                     | 4000                     |  |
| AOC2417                   | MCSP 1.57x1.57  | Single        | Load Switch         | P    | Yes       | No             |               | -20                 | 12                   | -3.5               |       | 0.55               |      | 32                                                | 38    | 50    |      |      |      | -1.4                        | 1355                  | 150                   | 14                    | 4                    | 7                       | 190                      |  |
| AOC2401                   | MCSP 1.57x1.57  | Single        | Load Switch         | P    | Yes       | No             |               | -30                 | 12                   | -3                 |       | 0.55               |      | 41                                                | 47    | 58    |      |      |      | -1.3                        | 1327                  | 102                   | 13.5                  | 4                    | 7                       | 190                      |  |
| AlphaDFN 3.2x2.0          |                 |               |                     |      |           |                |               |                     |                      |                    |       |                    |      |                                                   |       |       |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOC4810                   | MCSP 3.2x2.0    | Common Drain  | Load Switch         | N    | No        | No             |               | 30                  | 20                   | 8                  |       | 0.9                |      | 4.4*                                              | 7.25* |       |      |      |      | 1.8                         | 1130                  | 90                    | 20                    |                      | 8                       | 25                       |  |
| SC-70                     |                 |               |                     |      |           |                |               |                     |                      |                    |       |                    |      |                                                   |       |       |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AO7400                    | SC-70-3         | Single        | General Purpose     | N    | No        | No             |               | 30                  | 12                   | 1.7                | 1.3   | 0.35               | 0.22 | 55                                                | 65    | 85    |      |      |      | 1.5                         | 235                   | 18                    | 4.7                   | 1.6                  | 3.5                     | 17.5                     |  |
| AO7410                    | SC-70-3         | Single        | General Purpose     | N    | No        | No             |               | 30                  | 12                   | 1.7                | 1.3   | 0.35               | 0.22 | 55                                                | 65    | 85    |      |      |      | 1.5                         | 235                   | 18                    | 4.7                   | 1.6                  | 3.5                     | 17.5                     |  |
| AO7412                    | SC-70-6         | Single        | General Purpose     | N    | No        | No             |               | 30                  | 12                   | 1.7                | 1.3   | 0.35               | 0.22 | 55                                                | 65    | 85    |      |      |      | 1.5                         | 235                   | 18                    | 4.7                   | 1.6                  | 3.5                     | 17.5                     |  |
| AO7404                    | SC-70-3         | Single        | General Purpose     | N    | Yes       | No             |               | 20                  | 8                    | 1                  | 0.75  | 0.35               | 0.22 |                                                   | 225   | 290   | 425  |      |      | 0.8                         | 101                   | 14                    | 1.57                  | 0.36                 | 3.2                     | 15.5                     |  |
| AO7408                    | SC-70-6         | Single        | General Purpose     | N    | No        | No             |               | 20                  | 8                    | 2                  | 1.5   | 0.35               | 0.22 |                                                   | 62    | 75    | 85   |      |      | 1                           | 260                   | 27                    | 2.9*                  | 0.6                  | 2.5                     | 21                       |  |
| AO7414                    | SC-70-6         | Single        | General Purpose     | N    | No        | No             |               | 20                  | 8                    | 2                  | 1.5   | 0.35               | 0.22 |                                                   | 62    | 70    | 85   |      |      | 1                           | 260                   | 27                    | 2.9                   | 0.6                  | 2.5                     | 21                       |  |
| AO7403                    | SC-70-3         | Single        | General Purpose     | P    | Yes       | No             |               | -20                 | 8                    | -0.7               | -0.5  | 0.35               | 0.22 |                                                   | 470   | 625   | 900  |      |      | -0.9                        | 114                   | 14                    | 1.44                  | 0.35                 | 6.5                     | 18.2                     |  |
| AO7407                    | SC-70-3         | Single        | General Purpose     | P    | No        | No             |               | -20                 | 8                    | -1.2               | -1    | 0.63               | 0.4  |                                                   | 135   | 170   | 220  |      |      | -1                          | 560                   | 70                    | 8.5*                  | 2.1                  | 7.2                     | 53                       |  |
| AO7411                    | SC-70-6         | Single        | General Purpose     | P    | No        | No             |               | -20                 | 8                    | -1.8               | -1.5  | 0.63               | 0.4  |                                                   | 120   | 150   | 200  |      |      | -1                          | 560                   | 70                    | 8.5                   | 2.1                  | 7.2                     | 53                       |  |
| AO7413                    | SC-70-3         | Single        | General Purpose     | P    | Yes       | No             |               | -20                 | 12                   | -1.4               | -1.2  | 0.35               | 0.22 | 113                                               | 135   | 180   |      |      |      | -1.2                        | 325                   | 37                    | 3.2                   | 0.9                  | 11                      | 22                       |  |
| AO7415                    | SC-70-6         | Single        | General Purpose     | P    | Yes       | No             |               | -20                 | 12                   | -2                 | -1.6  | 0.63               | 0.4  | 100                                               | 125   | 170   |      |      |      | -1.2                        | 325                   | 37                    | 3.2                   | 0.9                  | 11                      | 22                       |  |
| AO7417                    | SC-70-6         | Single        | General Purpose     | P    | No        | No             |               | -20                 | 8                    | -1.9               | -1.6  | 0.57               | 0.36 |                                                   | 80    | 100   | 125  |      |      | -1                          | 560                   | 70                    | 8.5                   | 2.1                  | 7.2                     | 53                       |  |
| AO7401                    | SC-70-3         | Single        | General Purpose     | P    | No        | No             |               | -30                 | 12                   | -1.4               | -1    | 0.35               | 0.22 | 115                                               | 140   | 200   |      |      |      | -1.4                        | 260                   | 20                    | 2.8                   | 1                    | 6                       | 20                       |  |
| AO7405                    | SC-70-6         | Single        | General Purpose     | P    | No        | No             |               | -30                 | 12                   | -1.4               | -1    | 0.35               | 0.22 | 115                                               | 140   | 200   |      |      |      | -1.4                        | 260                   | 20                    | 2.8                   | 1                    | 6                       | 20                       |  |
| AO7800                    | SC-70-6         | Dual          | General Purpose     | N    | Yes       | No             |               | 20                  | 8                    | 0.9                | 0.7   | 0.3                | 0.19 |                                                   | 300   | 350   | 450  |      |      | 0.9                         | 101                   | 14                    | 1.57                  | 0.36                 | 3.2                     | 15.5                     |  |
| AO7801                    | SC-70-6         | Dual          | General Purpose     | P    | No        | No             |               | -20                 | 8                    | -0.6               | -0.48 | 0.3                | 0.19 |                                                   | 520   | 700   | 950  |      |      | -0.9                        | 114                   | 14                    | 1.44                  | 0.35                 | 6.5                     | 18.2                     |  |
| AO7600                    | SC-70-6         | Complementary | Inverter            | N    | No        | No             |               | 20                  | 8                    | 0.9                | 0.7   | 0.3                | 0.19 |                                                   | 300   | 350   | 450  |      |      | 0.9                         | 101                   | 14                    | 1.57                  | 0.36                 | 3.2                     | 15.5                     |  |
| AO7600                    | SC-70-6         | Complementary | Inverter            | P    | No        | No             |               | -20                 | 8                    | -0.6               | -0.48 | 0.3                | 0.19 |                                                   | 550   | 700   | 950  |      |      | -0.9                        | 114                   | 14                    | 1.44                  | 0.35                 | 6.5                     | 18.2                     |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number | Package  | Configuration | Popular Application | Type | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |       | P <sub>D</sub> (W) |      | 10V  | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      |  | 1.2V | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |
|-------------|----------|---------------|---------------------|------|-----------|----------------|---------------|---------------------|----------------------|--------------------|-------|--------------------|------|------|---------------------------------------------------|------|------|------|--|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|
|             |          |               |                     |      |           |                |               |                     |                      | 25°C               | 70°C  | 25°C               | 70°C |      | 4.5V                                              | 2.5V | 1.8V | 1.5V |  |      |                             |                       |                       |                       |                      |                         |                          |
| SC-89       |          |               |                     |      |           |                |               |                     |                      |                    |       |                    |      |      |                                                   |      |      |      |  |      |                             |                       |                       |                       |                      |                         |                          |
| AO5404E     | SC-89-3  | Single        | Load Switch         | N    | Yes       | No             |               | 20                  | 8                    | 0.5                | 0.5   | 0.38               | 0.24 |      | 550                                               | 680  | 800  |      |  | 1    | 35                          | 6                     |                       |                       |                      | 4.5                     | 78                       |
| AO5401E     | SC-89-3  | Single        | Load Switch         | P    | Yes       | No             |               | -20                 | 8                    | -0.5               | -0.45 | 0.38               | 0.24 |      | 800                                               | 1000 | 1300 |      |  | -0.9 | 72                          | 9                     |                       |                       |                      | 60.5                    | 612                      |
| AO5804E     | SC-89-6  | Dual          | Load Switch         | N    | Yes       | No             |               | 20                  | 8                    | 0.5                | 0.5   | 0.38               | 0.24 |      | 550                                               | 680  | 800  |      |  | 1    | 35                          | 6                     | 0.63                  | 0.16                  | 4.5                  | 78                      |                          |
| AO5803E     | SC-89-6  | Dual          | Load Switch         | P    | Yes       | No             |               | -20                 | 8                    | -0.6               | -0.4  | 0.4                | 0.24 |      | 800                                               | 1000 | 1250 |      |  | -0.9 | 72                          | 9                     |                       |                       |                      | 60.5                    | 612                      |
| AO5600E     | SC-89-6  | Complementary | Inverter            | N    | Yes       | No             |               | 20                  | 8                    | 0.6                | 0.4   | 0.38               | 0.24 |      | 650                                               | 750  | 950  |      |  | 1    | 35                          | 6                     |                       |                       |                      | 4.5                     | 70                       |
| AO5600E     | SC-89-6  | Complementary | Inverter            | P    | Yes       | No             |               | -20                 | 8                    | -0.5               | -0.4  | 0.38               | 0.24 |      | 800                                               | 1000 | 1300 |      |  | -1   | 72                          | 9                     |                       |                       |                      | 60.5                    | 612                      |
| SOT-23      |          |               |                     |      |           |                |               |                     |                      |                    |       |                    |      |      |                                                   |      |      |      |  |      |                             |                       |                       |                       |                      |                         |                          |
| AO3400      | SOT-23-3 | Single        | General Purpose     | N    | No        | No             |               | 30                  | 12                   | 5.8                | 4.9   | 1.4                | 1    | 28   | 33                                                | 52   |      |      |  | 1.45 | 630                         | 50                    | 6                     | 1.8                   | 3                    | 25                      |                          |
| AO3400A     | SOT-23-3 | Single        | General Purpose     | N    | No        | No             |               | 30                  | 12                   | 5.7                | 4.7   | 1.4                | 0.9  | 26.5 | 32                                                | 48   |      |      |  | 1.45 | 630                         | 50                    | 6                     | 1.8                   | 3                    | 25                      |                          |
| AO3402      | SOT-23-3 | Single        | General Purpose     | N    | No        | No             |               | 30                  | 12                   | 4                  | 3.2   | 1.4                | 0.9  | 52   | 65                                                | 85   |      |      |  | 1.5  | 235                         | 18                    | 4.7                   | 1.6                   | 3.5                  | 17.5                    |                          |
| AO3404      | SOT-23-3 | Single        | General Purpose     | N    | No        | No             |               | 30                  | 20                   | 5                  | 4     | 1.4                | 0.9  | 31   | 43                                                |      |      |      |  | 2.4  | 255                         | 35                    | 2.55                  | 1.3                   | 4.5                  | 14.5                    |                          |
| AO3404A     | SOT-23-3 | Single        | General Purpose     | N    | No        | No             |               | 30                  | 20                   | 5.8                | 4.9   | 1.4                | 0.9  | 25   | 35                                                |      |      |      |  | 2.6  | 373                         | 41                    | 3.3                   | 1.7                   | 4.5                  | 14.8                    |                          |
| AO3406      | SOT-23-3 | Single        | General Purpose     | N    | No        | No             |               | 30                  | 20                   | 3.6                | 2.9   | 1.4                | 0.9  | 50   | 70                                                |      |      |      |  | 2.5  | 170                         | 23                    | 2                     | 1                     | 4.5                  | 18.5                    |                          |
| AO3418      | SOT-23-3 | Single        | SMPS                | N    | No        | No             |               | 30                  | 12                   | 3.8                | 3.1   | 1.4                | 0.9  | 55   | 65                                                | 85   |      |      |  | 1.5  | 235                         | 18                    | 4.7                   | 1.6                   | 3.5                  | 17.5                    |                          |
| AO3424      | SOT-23-3 | Single        | General Purpose     | N    | No        | No             |               | 30                  | 12                   | 3.8                | 3.1   | 1.4                | 0.9  | 55   | 65                                                | 85   |      |      |  | 1.5  | 235                         | 18                    | 4.7                   | 1.6                   | 3.5                  | 17.5                    |                          |
| AO3434A     | SOT-23-3 | Single        | Battery Protection  | N    | Yes       | No             |               | 30                  | 12                   | 4                  | 3     | 1.4                | 0.9  | 52   | 60                                                | 78   |      |      |  | 1.5  | 245                         | 20                    | 2.6                   | 1                     | 2                    | 22                      |                          |
| AO3414      | SOT-23-3 | Single        | General Purpose     | N    | No        | No             |               | 20                  | 8                    | 3                  | 2.5   | 1.4                | 0.9  |      | 62                                                | 70   | 85   |      |  | 1    | 260                         | 27                    | 2.9                   | 0.6                   | 2.5                  | 21                      |                          |
| AO3416      | SOT-23-3 | Single        | Load Switch         | N    | Yes       | No             |               | 20                  | 8                    | 6.5                | 5.2   | 1.4                | 0.9  |      | 22                                                | 26   | 34   |      |  | 1.1  | 1295                        | 87                    | 10                    | 2.6                   | 280                  | 3760                    |                          |
| AO3420      | SOT-23-3 | Single        | Load Switch         | N    | No        | No             |               | 20                  | 12                   | 6                  | 5     | 1.4                | 0.9  | 24   | 27                                                | 42   | 55   |      |  | 1.1  | 525                         | 75                    | 6                     | 2                     | 3                    | 20                      |                          |
| AO3413      | SOT-23-3 | Single        | General Purpose     | P    | No        | No             |               | -20                 | 8                    | -3                 | -2.4  | 1.4                | 0.9  |      | 80                                                | 100  | 130  |      |  | -1   | 560                         | 70                    | 8.5                   | 2.1                   | 7.2                  | 53                      |                          |
| AO3415      | SOT-23-3 | Single        | General Purpose     | P    | Yes       | No             |               | -20                 | 8                    | -4                 | -3.5  | 1.5                | 1    |      | 41                                                | 53   | 65   |      |  | -0.9 | 751                         | 80                    | 9.3                   | 2.2                   | 13                   | 19                      |                          |
| AO3415A     | SOT-23-3 | Single        | General Purpose     | P    | Yes       | No             |               | -20                 | 8                    | -5                 | -4    | 1.5                | 1    |      | 41                                                | 53   | 65   |      |  | -0.9 | 751                         | 80                    | 9.3                   | 2.2                   | 13                   | 19                      |                          |
| AO3419      | SOT-23-3 | Single        | General Purpose     | P    | Yes       | No             |               | -20                 | 12                   | -3.5               | -2.8  | 1.4                | 0.9  | 85   | 102                                               | 140  |      |      |  | -1.2 | 325                         | 37                    | 3.1                   | 1.1                   | 11                   | 22                      |                          |
| AO3423      | SOT-23-3 | Single        | General Purpose     | P    | Yes       | No             |               | -20                 | 12                   | -2                 | -2    | 1.4                | 0.9  | 92   | 118                                               | 166  |      |      |  | -1.2 | 325                         | 37                    | 3.2                   | 0.9                   | 11                   | 22                      |                          |
| AO3435      | SOT-23-3 | Single        | SMPS                | P    | No        | No             |               | -20                 | 8                    | -2.9               | -2.3  | 1                  | 0.6  |      | 70                                                | 90   | 110  | 130  |  | -1   | 510                         | 52                    | 5.6                   | 1.8                   | 11                   | 60                      |                          |
| AO3401      | SOT-23-3 | Single        | General Purpose     | P    | No        | No             |               | -30                 | 12                   | -4                 | -3.2  | 1.4                | 0.9  | 50   | 60                                                | 85   |      |      |  | -1.3 | 645                         | 55                    | 7                     | 2.5                   | 6.5                  | 41                      |                          |
| AO3401A     | SOT-23-3 | Single        | General Purpose     | P    | No        | No             |               | -30                 | 12                   | -4                 | -3.2  | 1.4                | 0.9  | 50   | 60                                                | 85   |      |      |  | -1.3 | 645                         | 55                    | 7                     | 2.5                   | 6.5                  | 41                      |                          |
| AO3403      | SOT-23-3 | Single        | General Purpose     | P    | No        | No             |               | -30                 | 12                   | -2.6               | -2.2  | 1.4                | 0.9  | 115  | 150                                               | 200  |      |      |  | -1.4 | 260                         | 20                    | 2.8                   | 1                     | 6                    | 20                      |                          |
| AO3407      | SOT-23-3 | Single        | General Purpose     | P    | No        | No             |               | -30                 | 20                   | -4.1               | -3.5  | 1.4                | 0.9  | 52   | 87                                                |      |      |      |  | 2.4  | 520                         | 65                    | 4.6                   | 2.2                   | 7.5                  | 19                      |                          |
| AO3407A     | SOT-23-3 | Single        | General Purpose     | P    | No        | No             |               | -30                 | 20                   | -4.3               | -3.5  | 1.4                | 0.9  | 48   | 78                                                |      |      |      |  | -2.4 | 520                         | 65                    | 4.6                   | 2.2                   | 7.5                  | 19                      |                          |
| AO3409      | SOT-23-3 | Single        | General Purpose     | P    | No        | No             |               | -30                 | 20                   | -2.6               | -2.2  | 1.4                | 1    | 110  | 180                                               |      |      |      |  | -2.4 | 197                         | 26                    | 2.2                   | 1.1                   | 7.5                  | 11.8                    |                          |
| AO3421      | SOT-23-3 | Single        | General Purpose     | P    | No        | No             |               | -30                 | 20                   | -2.6               | -2.2  | 1.4                | 1    | 110  | 180                                               |      |      |      |  | -2.4 | 197                         | 26                    | 2.2                   | 1.1                   | 7.5                  | 11.8                    |                          |
| AO3421E     | SOT-23-3 | Single        | General Purpose     | P    | Yes       | No             |               | -30                 | 20                   | -3                 | -2    | 1.4                | 0.9  | 95   | 160                                               |      |      |      |  | -2.5 | 215                         | 27.5                  | 2.2                   | 1.2                   | 8                    | 13.5                    |                          |
| TSOP-6      |          |               |                     |      |           |                |               |                     |                      |                    |       |                    |      |      |                                                   |      |      |      |  |      |                             |                       |                       |                       |                      |                         |                          |
| AO6400      | TSOP-6   | Single        | General Purpose     | N    | No        | No             |               | 30                  | 12                   | 6.9                | 5.8   | 2                  | 1.3  | 28   | 33                                                | 52   |      |      |  | 1.45 | 630                         | 50                    | 6                     | 1.8                   | 3                    | 25                      |                          |
| AO6402      | TSOP-6   | Single        | General Purpose     | N    | No        | No             |               | 30                  | 20                   | 5                  | 4     | 1.25               | 0.8  | 31   | 43                                                |      |      |      |  | 2.4  | 255                         | 35                    | 2.55                  | 1.3                   | 4.5                  | 14.5                    |                          |
| AO6402A     | TSOP-6   | Single        | General Purpose     | N    | No        | No             |               | 30                  | 20                   | 7.5                | 6     | 2                  | 1.28 | 24   | 35                                                |      |      |      |  | 2.6  | 373                         | 41                    | 3.5                   | 1.7                   | 4.5                  | 14.9                    |                          |
| AO6424      | TSOP-6   | Single        | General Purpose     | N    | No        | No             |               | 30                  | 20                   | 5                  | 4     | 1.25               | 0.8  | 31   | 43                                                |      |      |      |  | 2.4  | 255                         | 35                    | 2.55                  | 1.3                   | 4.5                  | 14.5                    |                          |
| AO6424A     | TSOP-6   | Single        | General Purpose     | N    | No        | No             |               | 30                  | 20                   | 6.5                | 5     | 2.5                | 1.5  | 35   | 48                                                |      |      |      |  | 2.4  | 270                         | 35                    | 3.2                   | 1.75                  | 3                    | 17.5                    |                          |
| AO6432      | TSOP-6   | Single        | General Purpose     | N    | No        | No             |               | 30                  | 20                   | 7.5                | 6     | 2                  | 1.28 | 24   | 35                                                |      |      |      |  | 2.6  | 373                         | 41                    | 3.5                   | 1.7                   | 4.5                  | 14.9                    |                          |
| AO6404      | TSOP-6   | Single        | Load Switch         | N    | No        | No             |               | 20                  | 12                   | 8.6                | 6.8   | 2                  | 1.28 | 17   | 18                                                | 24   | 33   |      |  | 1    | 1810                        | 200                   | 17.9                  | 4.7                   | 2.5                  | 49                      |                          |
| AO6408      | TSOP-6   | Single        | General Purpose     | N    | Yes       | No             |               | 20                  | 12                   | 8.8                | 7     | 2                  | 1.28 | 18   | 20                                                | 25   | 32   |      |  | 1    | 1810                        | 200                   | 17.9                  | 4.7                   | 3.3                  | 44                      |                          |
| AO6409      | TSOP-6   | Single        | Load Switch         | P    | Yes       | No             |               | -20                 | 8                    | -5.5               | -4.2  | 2.1                | 1.3  |      | 41                                                | 53   | 65   |      |  | -0.9 | 751                         | 80                    | 9.3                   | 2.2                   | 13                   | 19                      |                          |
| AO6409A     | TSOP-6   | Single        | Load Switch         | P    | Yes       | No             |               | -20                 | 8                    | -5.5               | -4    | 2.1                | 1.3  |      | 41                                                | 53   | 65   |      |  | -0.9 | 751                         | 80                    | 9.3                   | 2.2                   | 13                   | 19                      |                          |
| AO6415      | TSOP-6   | Single        | Load Switch         | P    | Yes       | No             |               | -20                 | 12                   | -3.3               | -2.7  | 1.25               | 0.8  | 82   | 100                                               | 140  |      |      |  | -1.2 | 325                         | 37                    | 3.2                   | 0.9                   | 11                   | 22                      |                          |
| AO6401      | TSOP-6   | Single        | General Purpose     | P    | No        | No             |               | -30                 | 12                   | -5                 | -4    | 2                  | 1.3  | 47   | 64                                                | 85   |      |      |  | -1.3 | 645                         | 55                    | 7                     | 2.5                   | 6.5                  | 41                      |                          |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number    | Package      | Configuration   | Popular Application | Type               | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |              | P <sub>D</sub> (W) |            | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |          |             |             |      |             | VGS(th) (max V) | Ciss (pF)  | Crss (pF) | Qg* (nC)   | Qgd (nC)  | Td(on) (ns) | Td(off) (ns) |  |
|----------------|--------------|-----------------|---------------------|--------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|--------------|--------------------|------------|---------------------------------------------------|----------|-------------|-------------|------|-------------|-----------------|------------|-----------|------------|-----------|-------------|--------------|--|
|                |              |                 |                     |                    |           |                |               |                     |                      | 25°C               | 70°C         | 25°C               | 70°C       | 10V                                               | 4.5V     | 2.5V        | 1.8V        | 1.5V | 1.2V        |                 |            |           |            |           |             |              |  |
| AO6401A        | TSOP-6       | Single          | General Purpose     | P                  | No        | No             |               | -30                 | 12                   | -5                 | -4           | 2                  | 1.3        | 47                                                | 64       | 85          |             |      |             | -1.3            | 645        | 55        | 7          | 2.5       | 6.5         | 41           |  |
| AO6403         | TSOP-6       | Single          | General Purpose     | P                  | No        | No             |               | -30                 | 20                   | -6                 | -5           | 2                  | 1.3        | 35                                                | 58       |             |             |      |             | -2.4            | 760        | 95        | 6.7        | 3.2       | 8           | 17           |  |
| AO6405         | TSOP-6       | Single          | General Purpose     | P                  | No        | No             |               | -30                 | 20                   | -5                 | -4.2         | 2                  | 1.3        | 52                                                | 87       |             |             |      |             | -2.4            | 520        | 65        | 4.6        | 2.2       | 7.5         | 19           |  |
| AO6800         | TSOP-6       | Dual            | General Purpose     | N                  | No        | No             |               | 30                  | 12                   | 3.4                | 2.7          | 1.15               | 0.73       | 60                                                | 70       | 90          |             |      |             | 1.5             | 235        | 18        | 4.7        | 1.6       | 3.5         | 17.5         |  |
| AO6802         | TSOP-6       | Dual            | General Purpose     | N                  | No        | No             |               | 30                  | 20                   | 3.5                | 3            | 1.15               | 0.73       | 50                                                | 70       |             |             |      |             | 2.5             | 170        | 23        | 2          | 1         | 4.5         | 18.5         |  |
| AO6804A        | TSOP-6       | Dual            | Load Switch         | N                  | Yes       | No             |               | 20                  | 12                   | 5                  | 4            | 1.3                | 0.8        |                                                   | 28       | 39          |             |      |             | 1               | 580        | 70        | 5.8        | 1.6       | 2.4         | 38           |  |
| AO6801         | TSOP-6       | Dual            | General Purpose     | P                  | No        | No             |               | -30                 | 12                   | -2.3               | -2           | 1.15               | 0.73       | 115                                               | 150      | 200         |             |      |             | -1.4            | 260        | 20        | 2.8        | 1         | 6           | 20           |  |
| AO6801A        | TSOP-6       | Dual            | General Purpose     | P                  | No        | No             |               | -30                 | 12                   | -2.3               | -2           | 1.15               | 0.73       | 115                                               | 150      | 200         |             |      |             | -1.4            | 260        | 20        | 2.8        | 1         | 6           | 20           |  |
| AO6801E        | TSOP-6       | Dual            | General Purpose     | P                  | Yes       | No             |               | -30                 | 12                   | -2                 | -1.6         | 0.7                | 0.5        | 110                                               | 135      | 185         |             |      |             | -1.5            | 305        | 26        | 3.5        | 1.2       | 6           | 23           |  |
| AO6808         | TSOP-6       | Common Drain    | Load Switch         | N                  | Yes       | No             |               | 20                  | 12                   | 4.6                | 3.7          | 0.8                | 0.5        |                                                   | 23       | 30          |             |      |             | 1               | 620        | 64        | 7.7        | 2.7       | 236         | 9.5          |  |
| AO6601         | TSOP-6       | Complementary   | Inverter            | N                  | No        | No             |               | 30                  | 12                   | 3.4                | 2.7          | 1.15               | 0.73       | 60                                                | 70       | 90          |             |      |             | 1.5             | 235        | 18        | 4.7        | 1.6       | 3.5         | 17.5         |  |
| AO6601         | TSOP-6       | Complementary   | Inverter            | P                  | No        | No             |               | -30                 | 12                   | -2.3               | -1.8         | 1.15               | 0.73       | 115                                               | 150      | 200         |             |      |             | -1.4            | 260        | 20        | 2.8        | 1         | 6           | 20           |  |
| AO6602         | TSOP-6       | Complementary   | Inverter            | N                  | No        | No             |               | 30                  | 20                   | 3.5                | 3            | 1.15               | 0.73       | 50                                                | 70       | 115         |             |      |             | 2.5             | 170        | 23        | 2          | 1         | 4.5         | 18.5         |  |
| AO6602         | TSOP-6       | Complementary   | Inverter            | P                  | No        | No             |               | -30                 | 20                   | -2.7               | -2.1         | 1.15               | 0.73       | 100                                               | 170      |             |             |      |             | -2.4            | 197        | 26        | 2.2        | 1.1       | 7.5         | 11.8         |  |
| AO6604         | TSOP-6       | Complementary   | Inverter            | N                  | No        | No             |               | 20                  | 8                    | 3.4                | 2.5          | 1.1                | 0.7        |                                                   | 65       | 75          | 100         |      |             | 1               | 260        | 27        | 2.9        | 0.6       | 2.5         | 21           |  |
| AO6604         | TSOP-6       | Complementary   | Inverter            | P                  | No        | No             |               | -20                 | 8                    | -2.5               | -2           | 1.1                | 0.7        |                                                   | 75       | 95          | 115         |      |             | -1              | 560        | 70        | 8.5        | 2.1       | 7.2         | 53           |  |
| TSSOP-8        |              |                 |                     |                    |           |                |               |                     |                      |                    |              |                    |            |                                                   |          |             |             |      |             |                 |            |           |            |           |             |              |  |
| AO8808A        | TSSOP-8      | Dual            | Battery Protection  | N                  | Yes       | No             |               | 20                  | 12                   | 8                  | 6.3          | 1.4                | 1          | 14                                                | 15       | 20          | 28          |      |             | 1               | 1160       | 146       | 16         | 3.8       | 6.2         | 51.7         |  |
| AO8807         | TSSOP-8      | Dual            | Load Switch         | P                  | Yes       | No             |               | -12                 | 8                    | -6.5               | -5           | 1.4                | 0.9        |                                                   | 20       | 24          | 30          |      |             | -0.85           | 1740       | 200       | 19         | 5.3       | 240         | 7000         |  |
| AO8801         | TSSOP-8      | Dual            | Load Switch         | P                  | Yes       | No             |               | -20                 | 8                    | -4.7               | -3.7         | 1.4                | 0.9        |                                                   | 42       | 53          | 70          |      |             | -1              | 1450       | 160       | 17.2       | 4.5       | 9.5         | 94           |  |
| AO8801A        | TSSOP-8      | Dual            | Load Switch         | P                  | Yes       | No             |               | -20                 | 8                    | -4.5               | -3.6         | 1.5                | 0.96       |                                                   | 42       | 54          | 68          |      |             | -0.9            | 751        | 80        | 9.3        | 22        | 13          | 19           |  |
| AO8804         | TSSOP-8      | Common Drain    | Battery Protection  | N                  | Yes       | No             |               | 20                  | 12                   | 8                  | 6.3          | 1.5                | 1.08       | 13                                                | 14       | 19          | 27          |      |             | 1               | 1810       | 200       | 19.8       | 5         | 3.3         | 44           |  |
| AO8810         | TSSOP-8      | Common Drain    | Battery Protection  | N                  | Yes       | No             |               | 20                  | 8                    | 7                  | 5.7          | 1.5                | 1          |                                                   | 20       | 23          | 28          |      |             | 1.1             | 1295       | 97        | 10         | 2.6       | 250         | 3670         |  |
| AO8814         | TSSOP-8      | Common Drain    | Battery Protection  | N                  | Yes       | No             |               | 20                  | 12                   | 7.5                | 6            | 1.5                | 0.96       | 16                                                | 18       | 24          | 34          |      |             | 1               | 1390       | 150       | 15.4       | 4         | 6.2         | 40.5         |  |
| AO8820         | TSSOP-8      | Common Drain    | Battery Protection  | N                  | Yes       | No             |               | 20                  | 12                   | 7                  | 5.5          | 1.5                | 0.96       | 21                                                | 24       | 32          | 50          |      |             | 1.1             | 500        | 52        | 6          | 1         | 0.2         | 7.4          |  |
| AO8822         | TSSOP-8      | Common Drain    | Battery Protection  | N                  | Yes       | No             |               | 20                  | 12                   | 7                  | 5.7          | 1.5                | 0.96       | 18                                                | 22       | 27          |             |      |             | 1               | 650        | 60        | 6.7        | 3         | 250         | 11000        |  |
| AO8830         | TSSOP-8      | Common Drain    | Battery Protection  | N                  | Yes       | No             |               | 20                  | 12                   | 6                  | 4.8          | 1.5                | 0.94       | 27                                                | 30       | 41          | 55          |      |             | 1               | 290        | 40        | 5.2        | 1.9       | 280         | 2350         |  |
| DFN 1.0x0.6    |              |                 |                     |                    |           |                |               |                     |                      |                    |              |                    |            |                                                   |          |             |             |      |             |                 |            |           |            |           |             |              |  |
| AON1606        | DFN 1.6x0.6A | Single          | Load Switch         | N                  | Yes       | No             |               | 20                  | 8                    | 0.7                | 0.55         | 0.9                | 0.55       |                                                   | 275      | 335         | 390         |      |             | 1               | 62.5       | 9         | 0.85       | 0.25      | 2           | 18           |  |
| AON1605        | DFN 1.6x0.6A | Single          | Load Switch         | P                  | Yes       | No             |               | -20                 | 8                    | -0.7               | -0.55        | 0.9                | 0.55       |                                                   | 710      | 930         | 1250        |      |             | -1.1            | 50         | 7.5       | 0.75       | 0.2       | 6           | 22           |  |
| DFN 1.6x1.6    |              |                 |                     |                    |           |                |               |                     |                      |                    |              |                    |            |                                                   |          |             |             |      |             |                 |            |           |            |           |             |              |  |
| AON1634        | DFN 1.6x1.6A | Single          | Load Switch         | N                  | Yes       | No             |               | 30                  | 12                   | 4                  | 3            | 1.8                | 1.15       | 54                                                | 62       | 82          |             |      |             | 1.5             | 245        | 20        | 2.6        | 1         | 2           | 22           |  |
| AON1610        | DFN 1.6x1.6A | Single          | Load Switch         | N                  | Yes       | No             |               | 20                  | 8                    | 4                  | 3            | 1.8                | 1.15       |                                                   | 29       | 34          | 44          |      |             | 1.1             | 748        | 67        | 7.5        | 1.8       | 4.5         | 27           |  |
| AON1620        | DFN 1.6x1.6A | Single          | Load Switch         | N                  | Yes       | No             |               | 12                  | 8                    | 4                  | 3            | 1.8                | 1.15       |                                                   | 22       | 27          | 36          |      |             | 1               | 770        | 130       | 8          | 2         | 2.5         | 25           |  |
| AON1611        | DFN 1.6x1.6A | Single          | Load Switch         | P                  | Yes       | No             |               | -20                 | 8                    | -4                 | -3           | 1.8                | 1.15       |                                                   | 58       | 76          | 98          | 120  |             | -0.9            | 550        | 64        | 7          | 1.9       | 15          | 50           |  |
| DFN 2x2        |              |                 |                     |                    |           |                |               |                     |                      |                    |              |                    |            |                                                   |          |             |             |      |             |                 |            |           |            |           |             |              |  |
| AON2410        | DFN 2x2B     | Single          | Load Switch         | N                  | No        | No             |               | 30                  | 12                   | 8                  | 6            | 2.8                | 1.8        |                                                   | 21       | 28          |             |      |             | 1.5             | 813        | 56        | 8          | 2.6       | 3           | 26           |  |
| AON2420        | DFN 2x2B     | Single          | General Purpose     | N                  | No        | No             |               | 30                  | 20                   | 8                  | 6            | 2.8                | 1.8        | 11.7                                              | 17.5     |             |             |      |             | 2.2             | 552        | 28        | 4.3        | 1.7       | 4.8         | 18.5         |  |
| AON2406        | DFN 2x2B     | Single          | Load Switch         | N                  | No        | No             |               | 20                  | 8                    | 8                  | 6            | 2.8                | 1.8        |                                                   | 12.5     | 15          | 19          | 24   |             | 1               | 1140       | 110       | 12.5       | 2.7       | 2.7         | 37           |  |
| AON2408        | DFN 2x2B     | Single          | Load Switch         | N                  | No        | No             |               | 20                  | 12                   | 8                  | 6            | 2.8                | 1.8        |                                                   | 14.5     | 19          |             |      |             | 1.2             | 782        | 98        | 7          | 2.4       | 3           | 28           |  |
| AON2400        | DFN 2x2B     | Single          | Load Switch         | N                  | No        | No             |               | 8                   | 5                    | 8                  | 6            | 2.8                | 1.8        |                                                   |          | 11          | 13          | 16   | 23          | 0.46            | 1645       | 320       | 16         | 2.8       | 7           | 37           |  |
| AON2401        | DFN 2x2B     | Single          | Load Switch         | P                  | No        | No             |               | -8                  | 5                    | -8                 | -6           | 2.8                | 1.8        |                                                   |          | 22          | 28          | 36   | 53          | -0.65           | 1465       | 235       | 12.5       | 3         | 4           | 99           |  |
| AON2403        | DFN 2x2B     | Single          | Load Switch         | P                  | No        | No             |               | -12                 | 8                    | -8                 | -6           | 2.8                | 1.8        |                                                   | 21       | 28          | 40          | 54   |             | -0.9            | 1370       | 258       | 12.7       | 3.4       | 11          | 70           |  |
| <b>AON2411</b> | <b>NEW</b>   | <b>DFN 2x2C</b> | <b>Single</b>       | <b>Load Switch</b> | <b>P</b>  | <b>Yes</b>     | <b>No</b>     | <b>-20</b>          | <b>8</b>             | <b>-20</b>         | <b>-15.5</b> | <b>5</b>           | <b>3.2</b> |                                                   | <b>8</b> | <b>11.6</b> | <b>17.5</b> |      | <b>-0.9</b> | <b>2180</b>     | <b>425</b> | <b>20</b> | <b>5.5</b> | <b>15</b> | <b>135</b>  |              |  |
| AON2405        | DFN 2x2B     | Single          | Load Switch         | P                  | No        | No             |               | -20                 | 8                    | -8                 | -6           | 2.8                | 1.8        |                                                   | 32       | 41          | 56          | 70   |             | -0.9            | 1025       | 119       | 13         | 3.4       | 7           | 95           |  |
| AON2701        | DFN 2x2      | Single          | Load Switch         | P                  | No        | Yes            | 2 A           | -20                 | 8                    | -3                 | -2.2         | 1.1                | 0.73       |                                                   | 120      | 160         | 200         |      |             | -1              | 540        | 63        | 5          | 1         | 5           | 28.5         |  |
| AON2407        | DFN 2x2B     | Single          | Load Switch         | P                  | No        | No             |               | -30                 | 12                   | -6.3               | -5           | 2.8                | 1.8        | 37.5                                              | 46       | 70          |             |      |             | -1.5            | 746        | 70        | 8          | 2.8       | 5.8         | 62           |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number            | Package    | Configuration  | Popular Application | Type                   | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |            | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |             |           |      |      |            | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |  |
|------------------------|------------|----------------|---------------------|------------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|------------|---------------------------------------------------|-------------|-----------|------|------|------------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|--|
|                        |            |                |                     |                        |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C       | 10V                                               | 4.5V        | 2.5V      | 1.8V | 1.5V | 1.2V       |                             |                       |                       |                       |                      |                         |                          |  |
| AON2409                | DFN 2x2B   | Single         | Load Switch         | P                      | No        | No             |               | -30                 | 20                   | -8                 | -6.3       | 2.8                | 1.8        | 32                                                | 53          |           |      |      |            | -2.3                        | 530                   | 75                    | 6                     | 3                    | 7.7                     | 26.3                     |  |
| AON2705                | DFN 2x2    | Single         | General Purpose     | P                      | No        | Yes            | 2 A           | -30                 | 20                   | -3                 | -2.4       | 1.5                | 0.95       | 108                                               | 165         |           |      |      |            | -2.3                        | 180                   | 25                    | 2                     | 1                    | 8                       | 18                       |  |
| AON2707                | DFN 2x2    | Single         | General Purpose     | P                      | No        | Yes            | 2 A           | -30                 | 12                   | -4                 | -3         | 2.8                | 1.8        | 117                                               | 138         | 193       |      |      |            | -1.5                        | 305                   | 26                    | 3.2                   | 1.2                  | 6                       | 21                       |  |
| AON2802                | DFN 2x2    | Dual           | Battery Protection  | N                      | Yes       | No             |               | 30                  | 12                   | 2                  | 1.6        | 2.1                | 1.3        | 60                                                | 68          | 88        |      |      |            | 1.5                         | 245                   | 20                    | 2.6                   | 1                    | 2                       | 22                       |  |
| AON2810                | DFN 2x2    | Dual           | General Purpose     | N                      | Yes       | No             |               | 30                  | 12                   | 2                  | 1.6        | 2.5                | 1.6        | 44                                                | 52          | 74        |      |      |            | 1.4                         | 235                   | 15                    | 2.2                   | 0.7                  | 3                       | 24                       |  |
| <b>AON2812</b>         | <b>NEW</b> | <b>DFN 2x2</b> | <b>Dual</b>         | <b>General Purpose</b> | <b>N</b>  | <b>Yes</b>     | <b>No</b>     | <b>30</b>           | <b>12</b>            | <b>4.5</b>         | <b>3.5</b> | <b>2.5</b>         | <b>1.6</b> | <b>37</b>                                         | <b>45</b>   | <b>70</b> |      |      |            | <b>1.4</b>                  | <b>235</b>            | <b>15</b>             | <b>2.2</b>            | <b>0.7</b>           | <b>3</b>                | <b>24</b>                |  |
| AON2800                | DFN 2x2    | Dual           | Battery Protection  | N                      | Yes       | No             |               | 20                  | 8                    | 4                  | 3          | 1.5                | 0.95       |                                                   | 47          | 65        |      |      |            | 1.2                         | 360                   | 50                    | 4.15                  | 1.15                 | 9.5                     | 26                       |  |
| AON2809                | DFN 2x2    | Dual           | Load Switch         | P                      | Yes       | No             |               | -12                 | 8                    | -2                 | -1.6       | 2.1                | 1.3        |                                                   | 68          | 90        | 118  |      |            | -0.9                        | 415                   | 78                    | 4.4                   | 0.9                  | 11.8                    | 54.3                     |  |
| AON2801                | DFN 2x2    | Dual           | Load Switch         | P                      | No        | No             |               | -20                 | 8                    | -3                 | -2         | 1.1                | 0.73       |                                                   | 120         | 160       | 200  |      |            | -1                          | 540                   | 63                    | 5                     | 1                    | 5                       | 28.5                     |  |
| AON2803                | DFN 2x2    | Dual           | Load Switch         | P                      | No        | No             |               | -20                 | 8                    | -3.8               | -3         | 1.5                | 0.95       |                                                   | 70          | 90        | 115  |      |            | -1                          | 560                   | 70                    | 8.5                   | 2.1                  | 7.2                     | 53                       |  |
| DFN 2x5                |            |                |                     |                        |           |                |               |                     |                      |                    |            |                    |            |                                                   |             |           |      |      |            |                             |                       |                       |                       |                      |                         |                          |  |
| AON5802B               | DFN 2x5    | Common Drain   | Battery Protection  | N                      | Yes       | No             |               | 30                  | 12                   | 7.2                | 5.6        | 1.6                | 1          |                                                   | 18          | 30        |      |      |            | 1.5                         | 790                   | 52                    | 7.5                   | 2.5                  | 320                     | 4350                     |  |
| AON5810                | DFN 2x5    | Common Drain   | Battery Protection  | N                      | Yes       | No             |               | 20                  | 12                   | 7.7                | 6.1        | 1.6                | 1          |                                                   | 18          | 25        | 40   |      |            | 1                           | 1360                  | 178                   | 13.1                  | 3.9                  | 6.2                     | 40.5                     |  |
| AON5820                | DFN 2x5    | Common Drain   | Battery Protection  | N                      | Yes       | No             |               | 20                  | 12                   | 10                 | 8          | 1.7                | 1          |                                                   | 9.5         | 13        |      |      |            | 1                           | 1255                  | 168                   | 12.5                  | 6.5                  | 1.1                     | 7                        |  |
| DFN 3x2                |            |                |                     |                        |           |                |               |                     |                      |                    |            |                    |            |                                                   |             |           |      |      |            |                             |                       |                       |                       |                      |                         |                          |  |
| AON4420L               | DFN 3x2    | Single         | Load Switch         | N                      | No        | No             |               | 30                  | 20                   | 10                 | 8          | 1.6                | 1          | 20                                                | 26          |           |      |      |            | 2.5                         | 550                   | 55                    | 4.6                   | 2.2                  | 5                       | 24                       |  |
| AON4407                | DFN 3x2    | Single         | Load Switch         | P                      | Yes       | No             |               | -12                 | 8                    | -9                 | -7         | 2.5                | 1.6        |                                                   | 20          | 25        | 31   |      |            | -0.85                       | 1740                  | 200                   | 19                    | 5.3                  | 240                     | 7000                     |  |
| AON4703                | DFN 3x2    | Single         | Load Switch         | P                      | No        | Yes            | 1 A           | -20                 | 8                    | -3.4               | -2.7       | 1.7                | 1.1        |                                                   | 90          | 120       | 160  |      |            | -1                          | 540                   | 49                    | 6.1                   | 1.6                  | 10                      | 44                       |  |
| AON4421                | DFN 3x2    | Single         | Load Switch         | P                      | No        | No             |               | -30                 | 20                   | -8                 | -6         | 2.5                | 1.6        | 26                                                | 34          |           |      |      |            | -1.8                        | 930                   | 120                   | 8.6                   | 3.4                  | 6                       | 40                       |  |
| AON4803                | DFN 3x2    | Dual           | Load Switch         | P                      | No        | No             |               | -20                 | 8                    | -3.4               | -2.7       | 1.7                | 1.1        |                                                   | 90          | 120       | 165  |      |            | -1                          | 540                   | 49                    | 6.1                   | 1.6                  | 10                      | 44                       |  |
| AON4805L               | DFN 3x2    | Dual           | Load Switch         | P                      | No        | No             |               | -20                 | 8                    | -4.5               | -3.5       | 2                  | 1.3        |                                                   | 65          | 85        | 115  |      |            | -1                          | 560                   | 70                    | 8.5                   | 2.1                  | 7.2                     | 53                       |  |
| AON4807                | DFN 3x2    | Dual           | Load Switch         | P                      | No        | No             |               | -30                 | 20                   | -4                 | -3         | 1.9                | 1.2        | 68                                                | 105         |           |      |      |            | -2.3                        | 290                   | 40                    | 2.8                   | 1.3                  | 6                       | 21                       |  |
| AON4605                | DFN 3x2    | Complementary  | Inverter            | N                      | No        | No             |               | 30                  | 20                   | 4.3                | 3.4        | 1.9                | 1.2        | 50                                                | 70          |           |      |      |            | 3                           | 238                   | 30                    | 3.1                   | 1.6                  | 3.3                     | 13.2                     |  |
| AON4605                | DFN 3x2    | Complementary  | Inverter            | P                      | No        | No             |               | -30                 | 20                   | -3.4               | -2.7       | 1.9                | 1.2        | 110                                               | 180         |           |      |      |            | -3                          | 290                   | 44                    | 3                     | 1.6                  | 7                       | 15                       |  |
| DFN 3x3                |            |                |                     |                        |           |                |               |                     |                      |                    |            |                    |            |                                                   |             |           |      |      |            |                             |                       |                       |                       |                      |                         |                          |  |
| AON3406 <sup>(1)</sup> | DFN 3x3    | Single         | General Purpose     | N                      | Yes       | No             |               | 30                  | 20                   | 10                 | 7.8        | 3                  | 1.9        | 15                                                | 24          |           |      |      |            | 3                           | 955                   | 112                   | 9                     | 4.7                  | 5                       | 19                       |  |
| AON7200                | DFN 3x3    | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 40                 | 31         | 26                 | 10.4       | 8                                                 | 11          |           |      |      |            | 2.4                         | 1090                  | 38                    | 7                     | 2.5                  | 5                       | 16                       |  |
| AON7400                | DFN 3x3    | Single         | SMPS                | N                      | No        | No             |               | 30                  | 12                   | 26                 | 20         | 35                 | 14         | 12.5                                              | 14.5        |           |      |      |            | 1.55                        | 1210                  | 85                    | 10                    | 2.7                  | 10                      | 21                       |  |
| AON7400A               | DFN 3x3    | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 40                 | 28         | 25                 | 10         | 7.5                                               | 10.5        |           |      |      |            | 2.5                         | 1150                  | 105                   | 9.5                   | 5                    | 6.5                     | 17                       |  |
| AON7402                | DFN 3x3    | Single         | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 39                 | 24         | 26                 | 10.4       | 10                                                | 15          |           |      |      |            | 2.2                         | 770                   | 77                    | 7.1                   | 3.1                  | 5                       | 18                       |  |
| AON7406                | DFN 3x3    | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 25                 | 15         | 15.5               | 6          | 17                                                | 23          |           |      |      |            | 2.4                         | 740                   | 82                    | 7.5                   | 3                    | 5                       | 19                       |  |
| AON7408                | DFN 3x3    | Single         | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 18                 | 11.5       | 11                 | 4.5        | 20                                                | 32          |           |      |      |            | 2.6                         | 373                   | 41                    | 7.1                   | 1.6                  | 4.3                     | 15.8                     |  |
| AON7410                | DFN 3x3    | Single         | Load Switch         | N                      | No        | No             |               | 30                  | 20                   | 24                 | 15         | 20                 | 8.3        | 20                                                | 26          |           |      |      |            | 2.5                         | 550                   | 55                    | 4.6                   | 2.2                  | 5                       | 24                       |  |
| AON7412                | DFN 3x3    | Single         | Load Switch         | N                      | No        | No             |               | 30                  | 25                   | 16                 | 12.5       | 20.8               | 8.3        | 20                                                | 28          |           |      |      |            | 2                           | 466                   | 61                    | 4.3                   | 2.3                  | 5                       | 20                       |  |
| AON7414                | DFN 3x3    | Single         | Load Switch         | N                      | No        | No             |               | 30                  | 20                   | 20                 | 15         | 15.5               | 6          | 15                                                | 20          |           |      |      |            | 2.2                         | 595                   | 70                    | 6.8                   | 3.6                  | 5                       | 22                       |  |
| AON7416                | DFN 3x3    | Single         | Load Switch         | N                      | No        | No             |               | 30                  | 12                   | 40                 | 26         | 25                 | 10         | 8.5                                               | 10          |           |      |      |            | 1.7                         | 1580                  | 100                   | 13                    | 3                    | 5                       | 29                       |  |
| AON7422E               | DFN 3x3    | Single         | Load Switch         | N                      | Yes       | No             |               | 30                  | 20                   | 40                 | 31         | 36                 | 14         | 4.3                                               | 6           |           |      |      |            | 1.85                        | 2445                  | 220                   | 19                    | 6.6                  | 7                       | 41.5                     |  |
| AON7426                | DFN 3x3    | Single         | Load Switch         | N                      | Yes       | No             |               | 30                  | 20                   | 40                 | 31         | 29                 | 12         | 5.5                                               | 8           |           |      |      |            | 2.35                        | 1756                  | 155                   | 44                    | 13                   | 17.5                    | 56                       |  |
| AON7430                | DFN 3x3    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 34                 | 21         | 23                 | 9          | 12                                                | 16          |           |      |      |            | 2.5                         | 760                   | 70                    | 6.6                   | 3                    | 4.4                     | 17                       |  |
| AON7432                | DFN 3x3    | Single         | Load Switch         | N                      | No        | No             |               | 30                  | 12                   | 18                 | 14         | 20.8               | 8.3        | 15                                                | 18          | 24        |      |      |            | 1.5                         | 813                   | 56                    | 8                     | 2.6                  | 3                       | 26                       |  |
| <b>AON7466</b>         | <b>NEW</b> | <b>DFN 3x3</b> | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>25</b>            | <b>30</b>          | <b>23</b>  | <b>25</b>          | <b>10</b>  | <b>7.5</b>                                        | <b>10.5</b> |           |      |      | <b>2.5</b> | <b>1150</b>                 | <b>105</b>            | <b>9.5</b>            | <b>5</b>              | <b>6.5</b>           | <b>17</b>               |                          |  |
| AON7502                | DFN 3x3    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 25                   | 30                 | 23.5       | 31                 | 12.5       | 4.7                                               |             |           |      |      |            | 3                           | 1022                  | 63                    | 6.2                   | 3.5                  | 7.5                     | 17.5                     |  |
| AON7506                | DFN 3x3    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 12                 | 9.4        | 20.5               | 8          | 9.8                                               | 15.8        |           |      |      |            | 2.3                         | 542                   | 31                    | 4.3                   | 1.7                  | 4                       | 18                       |  |
| AON7508                | DFN 3x3    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 32                 | 25         | 62.5               | 25         | 3                                                 | 4.6         |           |      |      |            | 2.2                         | 1835                  | 90                    | 13.6                  | 5.3                  | 7.9                     | 27.3                     |  |
| AON7516                | DFN 3x3    | Single         | Load Switch         | N                      | No        | No             |               | 30                  | 20                   | 30                 | 23         | 25                 | 10         | 4.5                                               | 6.8         |           |      |      |            | 2.2                         | 1229                  | 83                    | 12                    | 5.5                  | 7                       | 24                       |  |
| AON7522E               | DFN 3x3    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 34                 | 27         | 31                 | 12         | 4                                                 | 6.8         |           |      |      |            | 2.2                         | 1540                  | 448                   | 19.7                  | 15                   | 7                       | 24                       |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number        | Package     | Configuration      | Popular Application | Type                      | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |            | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |             |           |      |      |            |             | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |  |
|--------------------|-------------|--------------------|---------------------|---------------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|------------|---------------------------------------------------|-------------|-----------|------|------|------------|-------------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|--|
|                    |             |                    |                     |                           |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C       | 10V                                               | 4.5V        | 2.5V      | 1.8V | 1.5V | 1.2V       |             |                             |                       |                       |                       |                      |                         |                          |  |
| AON7524            | DFN 3x3     | Single             | General Purpose     | N                         | Yes       | No             |               | 30                  | 12                   | 28                 | 22         | 32                 | 12.8       | 3.3                                               | 4           | 5.8       |      |      |            | 1.2         | 2250                        | 65                    | 16                    | 5.2                   | 5                    | 47.5                    |                          |  |
| AON7528            | DFN 3x3     | Single             | General Purpose     | N                         | Yes       | No             |               | 30                  | 20                   | 50                 | 39         | 83                 | 33         | 2                                                 | 3.4         |           |      |      |            | 2.2         | 2895                        | 149                   | 21.3                  | 9                     | 8.5                  | 31                      |                          |  |
| <b>AON7530</b>     | <b>NEW</b>  | <b>DFN 3x3</b>     | <b>Single</b>       | <b>General Purpose</b>    | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>30</b>          | <b>23</b>  | <b>24</b>          | <b>9.6</b> | <b>4.7</b>                                        | <b>7.2</b>  |           |      |      | <b>2.2</b> | <b>1320</b> | <b>70</b>                   | <b>8.8</b>            | <b>4</b>              | <b>7</b>              | <b>21</b>            |                         |                          |  |
| AON7532E           | DFN 3x3     | Single             | General Purpose     | N                         | Yes       | No             |               | 30                  | 20                   | 28                 | 21         | 28                 | 11         | 3.5                                               | 5.5         |           |      |      |            | 2.2         | 1950                        | 95                    | 12.8                  | 4.8                   | 8                    | 28                      |                          |  |
| AON7534            | DFN 3x3     | Single             | General Purpose     | N                         | No        | No             |               | 30                  | 20                   | 30                 | 23         | 23                 | 9          | 5                                                 | 8.5         |           |      |      |            | 2.2         | 1037                        | 61                    | 6.8                   | 3.6                   | 5.5                  | 18                      |                          |  |
| AON7538            | DFN 3x3     | Single             | General Purpose     | N                         | No        | No             |               | 30                  | 20                   | 30                 | 23         | 24                 | 9          | 5.1                                               | 8.2         |           |      |      |            | 2.2         | 1128                        | 59                    | 7.4                   | 2.3                   | 5.5                  | 22.5                    |                          |  |
| <b>AON7556</b>     | <b>NEW</b>  | <b>DFN 3x3</b>     | <b>Single</b>       | <b>General Purpose</b>    | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>12</b>          | <b>9.4</b> | <b>12.5</b>        | <b>5</b>   | <b>10.5</b>                                       | <b>16.5</b> |           |      |      | <b>2.2</b> | <b>600</b>  | <b>30</b>                   | <b>4.4</b>            | <b>1.9</b>            | <b>5</b>              | <b>17.5</b>          |                         |                          |  |
| AON7752            | DFN 3x3     | Single             | General Purpose     | N                         | No        | Yes            |               | 30                  | 20                   | 16                 | 12         | 20                 | 8.3        | 8.2                                               | 14.5        |           |      |      |            | 2.5         | 605                         | 36.5                  | 5.5                   | 2.6                   | 5                    | 17                      |                          |  |
| AON7754            | DFN 3x3     | Single             | General Purpose     | N                         | No        | Yes            | SRFET         | 30                  | 20                   | 32                 | 25         | 70                 | 28         | 3.6                                               | 5           |           |      |      |            | 2.4         | 1975                        | 92                    | 13.6                  | 5.3                   | 7.9                  | 27.3                    |                          |  |
| AON7764            | DFN 3x3     | Single             | SMPS Low Side       | N                         | No        | Yes            | SRFET         | 30                  | 20                   | 32                 | 25         | 30                 | 12         | 3.2                                               | 4.8         |           |      |      |            | 2.2         | 1990                        | 120                   | 13.2                  | 6.6                   | 9.5                  | 28.5                    |                          |  |
| AON3402            | DFN 3x3     | Single             | General Purpose     | N                         | Yes       | No             |               | 20                  | 12                   | 12                 | 9.6        | 3                  | 1.9        | 13                                                | 17          | 26        |      |      |            | 1           | 1810                        | 200                   | 17.9                  | 4.7                   | 2.5                  | 4.9                     |                          |  |
| AON7404            | DFN 3x3     | Single             | Load Switch         | N                         | No        | No             |               | 20                  | 12                   | 40                 | 31         | 40                 | 16         |                                                   | 6           | 7.5       |      |      |            | 1.6         | 3860                        | 580                   | 36                    | 12                    | 7                    | 70                      |                          |  |
| AON7436            | DFN 3x3     | Single             | Load Switch         | N                         | No        | No             |               | 20                  | 12                   | 23                 | 15         | 16.7               | 7          | 19                                                | 22          | 32        | 50   |      |            | 1.1         | 525                         | 75                    | 6                     | 2                     | 3                    | 20                      |                          |  |
| AON7407            | DFN 3x3     | Single             | Load Switch         | P                         | No        | No             |               | -20                 | 8                    | -40                | -29        | 29                 | 12         |                                                   | 9.5         | 12.5      | 18   |      |            | -0.9        | 3495                        | 425                   | 44*                   | 11                    | 18                   | 136                     |                          |  |
| AON3419            | DFN 3x3     | Single             | Load Switch         | P                         | No        | No             |               | -30                 | 20                   | -10                | -7.8       | 3.1                | 2          | 19                                                | 32          |           |      |      |            | -2.5        | 1040                        | 125                   | 9.6                   | 4.5                   | 10                   | 26                      |                          |  |
| AON7401            | DFN 3x3     | Single             | Load Switch         | P                         | No        | No             |               | -30                 | 25                   | -35                | -23        | 29                 | 12         | 14                                                |             |           |      |      |            | -3          | 2060                        | 295                   | 30*                   | 10                    | 11                   | 24                      |                          |  |
| AON7403            | DFN 3x3     | Single             | Load Switch         | P                         | No        | No             |               | -30                 | 25                   | -29                | -18        | 25                 | 10         | 18                                                | 36          |           |      |      |            | -3          | 1130                        | 155                   | 18*                   | 3.3                   | 8.7                  | 18                      |                          |  |
| AON7409            | DFN 3x3     | Single             | Load Switch         | P                         | Yes       | No             |               | -30                 | 25                   | -32                | -25        | 96                 | 38.5       | 8.5                                               | 17          |           |      |      |            | -2.7        | 2142                        | 363                   | 18.5                  | 6                     | 13                   | 34                      |                          |  |
| AON7804            | DFN 3x3     | Dual               | SMPS                | N                         | Yes       | No             |               | 30                  | 20                   | 22                 | 14         | 17                 | 7          | 21                                                | 26          |           |      |      |            | 2.4         | 740                         | 82                    | 7.5                   | 3                     | 5                    | 19                      |                          |  |
| AON7810            | DFN 3x3     | Dual               | General Purpose     | N                         | No        | No             |               | 30                  | 20                   | 6                  | 5          | 20.5               | 8          | 14                                                | 20.5        |           |      |      |            | 2.3         | 542                         | 31                    | 4.3                   | 2                     | 4                    | 18                      |                          |  |
| <b>AON7812</b>     | <b>NEW</b>  | <b>DFN 3x3</b>     | <b>Dual</b>         | <b>General Purpose</b>    | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>6</b>           | <b>4.5</b> | <b>12.6</b>        | <b>5</b>   | <b>14.5</b>                                       | <b>20.5</b> |           |      |      | <b>2.2</b> | <b>600</b>  | <b>30</b>                   | <b>4.4</b>            | <b>1.9</b>            | <b>5</b>              | <b>17.5</b>          |                         |                          |  |
| AON7820            | DFN 3x3     | Dual               | SMPS                | N                         | Yes       | No             |               | 20                  | 10                   | 35                 | 22         | 31                 | 12.5       |                                                   | 16          | 20        |      |      |            | 1           | 1720                        | 177                   | 18.2                  | 7.6                   | 1.65                 | 5.4                     |                          |  |
| AON7826            | DFN 3x3     | Dual               | SMPS                | N                         | No        | No             |               | 20                  | 12                   | 22                 | 14         | 16.7               | 6.7        | 23                                                | 26          | 34        | 52   |      |            | 1.1         | 525                         | 75                    | 6                     | 2                     | 3                    | 20                      |                          |  |
| <b>AON3818</b>     | <b>NEW</b>  | <b>DFN 3x3</b>     | <b>Common Drain</b> | <b>Battery Protection</b> | <b>N</b>  | <b>Yes</b>     | <b>No</b>     | <b>24</b>           | <b>12</b>            | <b>8</b>           | <b>6</b>   | <b>2.7</b>         | <b>1.7</b> |                                                   | <b>13.5</b> | <b>21</b> |      |      | <b>1.2</b> | <b>840</b>  | <b>205</b>                  | <b>9.5</b>            | <b>4.5</b>            | <b>300</b>            | <b>1700</b>          |                         |                          |  |
| AON3814            | DFN 3x3     | Common Drain       | Battery Protection  | N                         | Yes       | No             |               | 20                  | 12                   | 6                  | 5.3        | 2.5                | 1.6        |                                                   | 17          | 24        |      |      |            | 1.1         | 920                         | 75                    | 11                    | 3.2                   | 300                  | 7900                    |                          |  |
| AON3816            | DFN 3x3     | Common Drain       | Battery Protection  | N                         | Yes       | No             |               | 20                  | 12                   | 4                  | 3.1        | 2.5                | 1.6        |                                                   | 22          | 28        |      |      |            | 1.1         | 920                         | 75                    | 11                    | 3.2                   | 300                  | 7900                    |                          |  |
| AON3611            | DFN 3x3     | Complementary      | General Purpose     | N                         | No        | No             |               | 30                  | 20                   | 5                  | 3.8        | 2.1                | 1.3        | 50                                                | 70          |           |      |      |            | 2.5         | 170                         | 23                    | 2                     | 1                     | 4.5                  | 18.5                    |                          |  |
| AON3611            | DFN 3x3     | Complementary      | General Purpose     | P                         | No        | No             |               | -30                 | 20                   | -6                 | -4.7       | 2.5                | 1.6        | 38                                                | 62          |           |      |      |            | -2.4        | 520                         | 65                    | 4.6                   | 2.2                   | 7.5                  | 19                      |                          |  |
| AON3613            | DFN 3x3     | Complementary      | General Purpose     | N                         | Yes       | No             |               | 30                  | 12                   | 4.5                | 3.5        | 2.1                | 1.3        | 52                                                | 60          |           |      |      |            | 1.5         | 245                         | 20                    | 2.6                   | 1                     | 2                    | 22                      |                          |  |
| AON3613            | DFN 3x3     | Complementary      | General Purpose     | P                         | No        | No             |               | -30                 | 20                   | -4.5               | -3.5       | 2.1                | 1.3        | 68                                                | 100         |           |      |      |            | -2.3        | 290                         | 40                    | 2.8                   | 1.3                   | 6                    | 21                      |                          |  |
| AON7611            | DFN 3x3     | Complementary      | Inverter            | N                         | No        | No             |               | 30                  | 20                   | 9                  | 5.5        | 7                  | 2.8        | 50                                                | 70          |           |      |      |            | 2.5         | 170                         | 23                    | 2                     | 1                     | 4.5                  | 18.5                    |                          |  |
| AON7611            | DFN 3x3     | Complementary      | Inverter            | P                         | No        | No             |               | -30                 | 20                   | -18.5              | -11.5      | 20.8               | 8.3        | 38                                                | 62          |           |      |      |            | -2.4        | 520                         | 65                    | 4.6                   | 2.2                   | 7.5                  | 19                      |                          |  |
| AON7932            | DFN 3x3A    | Asymmetric         | SMPS                | N                         | No        | No             |               | 30                  | 20                   | 26                 | 16         | 23                 | 9          | 20                                                | 30          |           |      |      |            | 2.4         | 380                         | 13                    | 2.3                   | 1                     | 10                   | 15                      |                          |  |
| AON7932            | DFN 3x3A    | Asymmetric         | SMPS                | N                         | No        | No             |               | 30                  | 12                   | 35                 | 22         | 25                 | 10         | 12                                                | 15          |           |      |      |            | 2.1         | 1020                        | 75                    | 9                     | 3                     | 11                   | 29                      |                          |  |
| AON7934            | DFN 3x3A    | Asymmetric         | SMPS                | N                         | No        | No             |               | 30                  | 20                   | 16                 | 12         | 23                 | 9          | 10.2                                              | 15.8        |           |      |      |            | 2.2         | 485                         | 32                    | 3.9                   | 2.1                   | 3.5                  | 16.3                    |                          |  |
| AON7934            | DFN 3x3A    | Asymmetric         | SMPS                | N                         | No        | No             |               | 30                  | 20                   | 18                 | 14         | 25                 | 10         | 7.7                                               | 11.6        |           |      |      |            | 2.2         | 807                         | 40                    | 6                     | 3                     | 4.8                  | 18.8                    |                          |  |
| <b>DFN 3.3x3.3</b> |             |                    |                     |                           |           |                |               |                     |                      |                    |            |                    |            |                                                   |             |           |      |      |            |             |                             |                       |                       |                       |                      |                         |                          |  |
| AON7210            | DFN 3.3x3.3 | Single             | SMPS                | N                         | No        | No             |               | 30                  | 20                   | 50                 | 39         | 83                 | 33         | 4                                                 | 5.8         |           |      |      |            | 2.3         | 1983                        | 54                    | 10.5                  | 3.6                   | 7.3                  | 21.2                    |                          |  |
| AON7418            | DFN 3.3x3.3 | Single             | Load Switch         | N                         | No        | No             |               | 30                  | 20                   | 50                 | 39         | 83                 | 33         | 1.7                                               | 2.8         |           |      |      |            | 2.2         | 2994                        | 196                   | 23                    | 10                    | 10.5                 | 30.8                    |                          |  |
| AON7428            | DFN 3.3x3.3 | Single             | Load Switch         | N                         | No        | No             |               | 30                  | 20                   | 50                 | 39         | 83                 | 33         | 2.8                                               | 3.6         |           |      |      |            | 2.3         | 2600                        | 280                   | 24                    | 8                     | 7                    | 58                      |                          |  |
| AON7510            | DFN 3.3x3.3 | Single             | Load Switch         | N                         | No        | No             |               | 30                  | 20                   | 75                 | 59         | 46                 | 18.5       | 1.25                                              | 2.1         |           |      |      |            | 2           | 4500                        | 1310                  | 60                    | 40                    | 10                   | 58                      |                          |  |
| AON7520            | DFN 3.3x3.3 | Single             | Load Switch         | N                         | Yes       | No             |               | 30                  | 12                   | 50                 | 39         | 83.3               | 33.3       | 1.8                                               | 2.1         | 3.1       |      |      |            | 1.2         | 4175                        | 300                   | 37                    | 12.5                  | 6.5                  | 58.5                    |                          |  |
| <b>AON7536</b>     | <b>NEW</b>  | <b>DFN 3.3x3.3</b> | <b>Single</b>       | <b>General Purpose</b>    | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>68</b>          | <b>43</b>  | <b>32.5</b>        | <b>13</b>  | <b>4.2</b>                                        | <b>6.2</b>  |           |      |      | <b>2.2</b> | <b>1950</b> | <b>80</b>                   | <b>12.7</b>           | <b>4.4</b>            | <b>7.5</b>            | <b>21</b>            |                         |                          |  |
| AON7758            | DFN 3.3x3.3 | Single             | General Purpose     | N                         | No        | Yes            | SRFET         | 30                  | 12                   | 75                 | 59         | 34                 | 13.5       | 1.85                                              | 2.4         |           |      |      |            | 2           | 5200                        | 86                    | 29                    | 3.6                   | 12                   | 47.5                    |                          |  |
| AON7784            | DFN 3.3x3.3 | Single             | SMPS Low Side       | N                         | No        | Yes            |               | 30                  | 12                   | 50                 | 39         | 83                 | 33         | 3.5                                               | 4           |           |      |      |            | 2.1         | 3800                        | 260                   | 28                    | 9                     | 10                   | 55                      |                          |  |
| AON7220            | DFN 3.3x3.3 | Single             | SMPS                | N                         | No        | No             |               | 25                  | 12                   | 50                 | 39         | 83                 | 33         | 3                                                 | 4           |           |      |      |            | 1.8         | 2961                        | 66                    | 17.4                  | 3.6                   | 7.8                  | 37.8                    |                          |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number             | Package      | Configuration  | Popular Application | Type                   | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |             | P <sub>D</sub> (W) |             | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |             |      |      |      |      |            | VGS(th) (max V) | Ciss (pF)  | Crss (pF)   | Qg* (nC)   | Qgd (nC)   | Td(on) (ns) | Td(off) (ns) |
|-------------------------|--------------|----------------|---------------------|------------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|-------------|--------------------|-------------|---------------------------------------------------|-------------|------|------|------|------|------------|-----------------|------------|-------------|------------|------------|-------------|--------------|
|                         |              |                |                     |                        |           |                |               |                     |                      | 25°C               | 70°C        | 25°C               | 70°C        | 10V                                               | 4.5V        | 2.5V | 1.8V | 1.5V | 1.2V |            |                 |            |             |            |            |             |              |
| AON7760                 | DFN 3.3x3.3  | Single         | SMPS Low Side       | N                      | No        | Yes            | SRFET         | 25                  | 16                   | 75                 | 59          | 34.5               | 14          | 2                                                 | 2.9         |      |      |      |      | 2.2        | 4240            | 210        | 23          | 6          | 10         | 40          |              |
| AON7421                 | DFN 3.3x3.3  | Single         | Load Switch         | P                      | No        | No             |               | -20                 | 12                   | -50                | -39         | 83                 | 33          | 4.6                                               | 5.8         | 9    |      |      |      | -1.2       | 4550            | 563        | 44          | 14         | 7          | 134         |              |
| AON7423                 | DFN 3.3x3.3  | Single         | Load Switch         | P                      | No        | No             |               | -20                 | 8                    | -50                | -39         | 83                 | 33          |                                                   | 5           | 6.5  | 8.5  |      |      | -0.9       | 5626            | 716        | 70          | 18.4       | 18         | 285         |              |
| AON7405                 | DFN 3.3x3.3  | Single         | Load Switch         | P                      | No        | No             |               | -30                 | 25                   | -50                | -39         | 83                 | 33          | 6.2                                               | 8.9*        |      |      |      |      | -2.8       | 2450            | 370        | 21          | 12         | 9.5        | 104         |              |
| AON7902 <sup>(1)</sup>  | DFN 3.3x3.3A | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 24                 | 15          | 17                 | 7           | 21                                                | 28          |      |      |      |      | 1.8        | 590             | 23         | 4           | 1.5        | 6          | 18          |              |
| AON7902 <sup>(1)</sup>  | DFN 3.3x3.3A | Asymmetric     | SMPS                | N                      | No        | Yes            |               | 30                  | 12                   | 40                 | 31          | 50                 | 20          | 6.2                                               | 7.4         |      |      |      |      | 1.6        | 3500            | 260        | 28          | 11         | 8          | 50          |              |
| DFN 5x6                 |              |                |                     |                        |           |                |               |                     |                      |                    |             |                    |             |                                                   |             |      |      |      |      |            |                 |            |             |            |            |             |              |
| AON6200L <sup>(1)</sup> | DFN 5x6      | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 24                 | 18          | 34                 | 14          | 7.8                                               | 11          |      |      |      |      | 2.4        | 1090            | 38         | 7           | 2.5        | 5          | 16          |              |
| AON6202 <sup>(1)</sup>  | DFN 5x6      | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 24                 | 19          | 35                 | 14          | 5.5                                               | 7.5         |      |      |      |      | 2.3        | 1840            | 63         | 12          | 4.2        | 6.5        | 21          |              |
| AON6204 <sup>(1)</sup>  | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 24                 | 19          | 31                 | 13          | 12                                                | 18          |      |      |      |      | 2.4        | 510             | 22         | 3.5         | 1.4        | 4.3        | 15.8        |              |
| AON6210 <sup>(1)</sup>  | DFN 5x6      | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 85                 | 67          | 83                 | 33          | 1.8                                               | 2.5         |      |      |      |      | 2.1        | 5250            | 160        | 38          | 13         | 12         | 53          |              |
| AON6400                 | DFN 5x6      | Single         | Load Switch         | N                      | No        | No             |               | 30                  | 20                   | 85                 | 67          | 83                 | 33          | 1.4                                               | 1.8         |      |      |      |      | 2.2        | 6900            | 730        | 70          | 32         | 12         | 88          |              |
| AON6404A                | DFN 5x6      | Single         | Load Switch         | N                      | Yes       | No             |               | 30                  | 20                   | 85                 | 67          | 83                 | 33          | 2.3                                               | 3           |      |      |      |      | 2.4        | 4335            | 435        | 33          | 16         | 10         | 75.5        |              |
| AON6414A                | DFN 5x6      | Single         | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 50                 | 31          | 31                 | 12.5        | 8                                                 | 10.5        |      |      |      |      | 2.5        | 1150            | 105        | 9.5         | 5          | 6.5        | 17          |              |
| AON6426                 | DFN 5x6      | Single         | Load Switch         | N                      | No        | No             |               | 30                  | 20                   | 65                 | 43          | 42                 | 17          | 5.5                                               | 7.5         |      |      |      |      | 2.5        | 1930            | 230        | 37          | 11         | 8.1        | 29          |              |
| AON6428                 | DFN 5x6      | Single         | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 43                 | 27          | 30                 | 12          | 10                                                | 14.5        |      |      |      |      | 2.2        | 770             | 77         | 7.1         | 3.1        | 5          | 18          |              |
| AON6500                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 200                | 151         | 83                 | 33          | 0.95                                              | 1.3         |      |      |      |      | 2          | 7036            | 353        | 49.7        | 21.4       | 12.3       | 68.5        |              |
| AON6502                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 85                 | 66          | 83                 | 33          | 2.2                                               | 2.7         |      |      |      |      | 2.2        | 3430            | 175        | 25          | 10.3       | 7.5        | 33.8        |              |
| AON6504                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 85                 | 66          | 83                 | 33          | 1.8                                               | 3.3         |      |      |      |      | 2.2        | 2719            | 169        | 21          | 7          | 9.7        | 32.5        |              |
| AON6506                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 36                 | 28          | 83                 | 33          | 2.6                                               | 3.8         |      |      |      |      | 2.2        | 2719            | 169        | 21          | 7          | 9.7        | 32.5        |              |
| AON6508                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 32                 | 25          | 41                 | 16          | 3.2                                               | 5           |      |      |      |      | 2.2        | 2010            | 124        | 17          | 8          | 7.5        | 37          |              |
| <b>AON6510</b>          | <b>NEW</b>   | <b>DFN 5x6</b> | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>32</b>          | <b>25</b>   | <b>46</b>          | <b>18.5</b> | <b>4.4</b>                                        | <b>5.9</b>  |      |      |      |      | <b>2.2</b> | <b>2160</b>     | <b>115</b> | <b>14</b>   | <b>6.3</b> | <b>8</b>   | <b>29</b>   |              |
| AON6512                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 150                | 115         | 83                 | 33          | 1.7                                               | 2.4         |      |      |      |      | 2          | 3430            | 175        | 25          | 10.3       | 7.5        | 33.8        |              |
| AON6516                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 56                 | 36          | 25                 | 10          | 5                                                 | 8           |      |      |      |      | 2.2        | 1229            | 83         | 12          | 5.5        | 7          | 24          |              |
| AON6518                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 85                 | 66          | 56                 | 22          | 1.75                                              | 2.7         |      |      |      |      | 2.2        | 3700            | 225        | 26          | 8.2        | 10.5       | 34          |              |
| AON6520                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 50                 | 29          | 31                 | 12.5        | 8.5                                               | 11          |      |      |      |      | 2.5        | 1150            | 105        | 9.5         | 5          | 6.5        | 17          |              |
| AON6524                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 68                 | 43          | 35.5               | 14          | 5                                                 | 8.5         |      |      |      |      | 2.3        | 1080            | 92         | 8.1         | 4          | 6.5        | 20          |              |
| AON6526 <sup>(1)</sup>  | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 32                 | 25          | 25                 | 10          | 7                                                 | 9           |      |      |      |      | 2.2        | 1229            | 83         | 12          | 5.5        | 7          | 24          |              |
| AON6530 <sup>(1)</sup>  | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 72                 | 45          | 35.5               | 14          | 4.5                                               | 7.8         |      |      |      |      | 2.4        | 1315            | 95         | 10          | 4.5        | 7          | 21.5        |              |
| AON6532                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 68                 | 43          | 35.5               | 14          | 5                                                 | 9           |      |      |      |      | 2.4        | 1080            | 92         | 8.1         | 4          | 6.5        | 20          |              |
| AON6536                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 55                 | 35          | 35.5               | 14          | 7                                                 | 10          |      |      |      |      | 2.5        | 1210            | 100        | 9           | 3.5        | 6          | 21.5        |              |
| AON6538                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 75                 | 48          | 35.5               | 14          | 4                                                 | 7.4         |      |      |      |      | 2.4        | 1315            | 95         | 10          | 4.5        | 7          | 21.5        |              |
| AON6544                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 85                 | 66          | 83                 | 33          | 1.4                                               | 1.9         |      |      |      |      | 2.2        | 5910            | 335        | 41          | 18.5       | 13         | 51          |              |
| AON6548                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 85                 | 66          | 83                 | 33          | 1.8                                               | 2.5         |      |      |      |      | 2.2        | 4290            | 300        | 31.2        | 14.6       | 11         | 38.8        |              |
| AON6552                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 30                 | 23          | 25                 | 10          | 5                                                 | 8.5         |      |      |      |      | 2.2        | 1037            | 61         | 6.8         | 3.6        | 5.5        | 18          |              |
| AON6554                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 12                   | 85                 | 66          | 70                 | 28          | 2.9                                               | 3.7         |      |      |      |      | 2.2        | 3020            | 140        | 21.3        | 7.2        | 7.5        | 41          |              |
| AON6558                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 30                 | 24          | 24                 | 9.5         | 5.1                                               | 8.2         |      |      |      |      | 2.2        | 1128            | 59         | 7.4         | 2.3        | 5.5        | 22.5        |              |
| AON6566                 | DFN 5x6      | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 32                 | 25          | 25                 | 10          | 5                                                 | 8.5         |      |      |      |      | 2.4        | 1300            | 75         | 8.5         | 2.5        | 7.5        | 23.3        |              |
| <b>AON6572</b>          | <b>NEW</b>   | <b>DFN 5x6</b> | <b>Single</b>       | <b>SMPS Low Side</b>   | <b>N</b>  | <b>No</b>      | <b>Yes</b>    | <b>30</b>           | <b>12</b>            | <b>85</b>          | <b>63.5</b> | <b>48</b>          | <b>19.2</b> | <b>3.2</b>                                        | <b>3.9</b>  |      |      |      |      | <b>2</b>   | <b>3290</b>     | <b>135</b> | <b>20.3</b> | <b>4.4</b> | <b>8.5</b> | <b>42</b>   |              |
| <b>AON6576</b>          | <b>NEW</b>   | <b>DFN 5x6</b> | <b>Single</b>       | <b>SMPS Low Side</b>   | <b>N</b>  | <b>No</b>      | <b>Yes</b>    | <b>30</b>           | <b>20</b>            | <b>32</b>          | <b>25</b>   | <b>26</b>          | <b>10.4</b> | <b>4.7</b>                                        | <b>7.2</b>  |      |      |      |      | <b>2.2</b> | <b>1320</b>     | <b>70</b>  | <b>8.8</b>  | <b>4</b>   | <b>7</b>   | <b>21</b>   |              |
| <b>AON6586</b>          | <b>NEW</b>   | <b>DFN 5x6</b> | <b>Single</b>       | <b>SMPS Low Side</b>   | <b>N</b>  | <b>No</b>      | <b>Yes</b>    | <b>30</b>           | <b>20</b>            | <b>35</b>          | <b>30</b>   | <b>41</b>          | <b>16</b>   | <b>7.5</b>                                        | <b>10.5</b> |      |      |      |      | <b>2.5</b> | <b>1150</b>     | <b>105</b> | <b>9.5</b>  | <b>5</b>   | <b>6.5</b> | <b>17</b>   |              |
| <b>AON6588</b>          | <b>NEW</b>   | <b>DFN 5x6</b> | <b>Single</b>       | <b>SMPS Low Side</b>   | <b>N</b>  | <b>No</b>      | <b>Yes</b>    | <b>30</b>           | <b>20</b>            | <b>32</b>          | <b>25</b>   | <b>46</b>          | <b>18.5</b> | <b>3.3</b>                                        | <b>4.8</b>  |      |      |      |      | <b>2.2</b> | <b>2160</b>     | <b>115</b> | <b>14</b>   | <b>6.3</b> | <b>8</b>   | <b>29</b>   |              |
| <b>AON6594</b>          | <b>NEW</b>   | <b>DFN 5x6</b> | <b>Single</b>       | <b>SMPS Low Side</b>   | <b>N</b>  | <b>No</b>      | <b>Yes</b>    | <b>30</b>           | <b>20</b>            | <b>35</b>          | <b>27</b>   | <b>39</b>          | <b>15.5</b> | <b>7</b>                                          | <b>11</b>   |      |      |      |      | <b>2.2</b> | <b>1037</b>     | <b>61</b>  | <b>6.8</b>  | <b>3.6</b> | <b>5.6</b> | <b>18</b>   |              |
| <b>AON6596</b>          | <b>NEW</b>   | <b>DFN 5x6</b> | <b>Single</b>       | <b>SMPS Low Side</b>   | <b>N</b>  | <b>No</b>      | <b>Yes</b>    | <b>30</b>           | <b>20</b>            | <b>35</b>          | <b>30</b>   | <b>41</b>          | <b>16</b>   | <b>7.5</b>                                        | <b>10.5</b> |      |      |      |      | <b>2.2</b> | <b>1150</b>     | <b>105</b> | <b>9.5</b>  | <b>5</b>   | <b>6.5</b> | <b>17</b>   |              |
| AON6752                 | DFN 5x6      | Single         | SMPS Low Side       | N                      | No        | Yes            | SRFET         | 30                  | 20                   | 85                 | 66          | 83                 | 33          | 1.7                                               | 2.5         |      |      |      |      | 2.2        | 3509            | 180        | 25.6        | 9.5        | 8          | 35.8        |              |
| AON6754                 | DFN 5x6      | Single         | SMPS Low Side       | N                      | No        | Yes            | SRFET         | 30                  | 20                   | 85                 | 66          | 83                 | 33          | 1.8                                               | 3.3         |      |      |      |      | 2.4        | 2796            | 165        | 22.3        | 8.6        | 9.5        | 35.8        |              |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number             | Package    | Configuration  | Popular Application | Type                   | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |           | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |            |            |      |      |             | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |
|-------------------------|------------|----------------|---------------------|------------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|-----------|---------------------------------------------------|------------|------------|------|------|-------------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|
|                         |            |                |                     |                        |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C      | 10V                                               | 4.5V       | 2.5V       | 1.8V | 1.5V | 1.2V        |                             |                       |                       |                       |                      |                         |                          |
| AON6756                 | DFN 5x6    | Single         | SMPS Low Side       | N                      | No        | Yes            | SRFET         | 30                  | 20                   | 36                 | 28         | 83                 | 33        | 2.4                                               | 4          |            |      |      |             | 2.4                         | 2796                  | 165                   | 22.3                  | 8.6                  | 9.5                     | 35.8                     |
| AON6758                 | DFN 5x6    | Single         | SMPS Low Side       | N                      | No        | Yes            | SRFET         | 30                  | 20                   | 32                 | 25         | 41                 | 16        | 3.6                                               | 5          |            |      |      |             | 2.4                         | 1975                  | 92                    | 13.6                  | 5.3                  | 7.9                     | 27.3                     |
| <b>AON6760</b>          | <b>NEW</b> | <b>DFN 5x6</b> | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>Yes</b>    | <b>SRFET</b>        | <b>30</b>            | <b>12</b>          | <b>36</b>  | <b>28</b>          | <b>39</b> | <b>15</b>                                         | <b>3.9</b> | <b>4.9</b> |      |      | <b>2</b>    | <b>3440</b>                 | <b>60</b>             | <b>21</b>             | <b>3.7</b>            | <b>8.5</b>           | <b>34</b>               |                          |
| AON6774                 | DFN 5x6    | Single         | SMPS Low Side       | N                      | No        | Yes            | SRFET         | 30                  | 20                   | 85                 | 66         | 48                 | 19        | 2.05                                              | 3.15       |            |      |      |             | 2.2                         | 3000                  | 160                   | 20.5                  | 7.5                  | 11                      | 38.5                     |
| AON6522                 | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 25                  | 20                   | 200                | 151        | 83                 | 33        | 0.95                                              | 1.3        |            |      |      |             | 2                           | 7036                  | 353                   | 49.7                  | 21.4                 | 12.3                    | 68.5                     |
| AON6411                 | DFN 5x6    | Single         | Load Switch         | P                      | No        | No             |               | -20                 | 12                   | -85                | -67        | 156                | 62.5      | 2.1                                               | 2.5        | 3.6        |      |      |             | -1.3                        | 10290                 | 1395                  | 100                   | 36                   | 9                       | 282                      |
| AON6403                 | DFN 5x6    | Single         | Load Switch         | P                      | No        | No             |               | -30                 | 20                   | -85                | -67        | 83                 | 33        | 3.1                                               | 4.3        |            |      |      |             | -2.2                        | 7600                  | 1050                  | 79                    | 33                   | 13                      | 135                      |
| AON6405                 | DFN 5x6    | Single         | Load Switch         | P                      | Yes       | No             |               | -30                 | 20                   | -30                | -23        | 83                 | 33        | 7                                                 | 8          |            |      |      |             | -1.6                        | 4580                  | 564                   | 41                    | 17                   | 180                     | 1200                     |
| AON6407                 | DFN 5x6    | Single         | Load Switch         | P                      | No        | No             |               | -30                 | 25                   | -85                | -67        | 83                 | 33        | 4.5                                               |            |            |      |      |             | -2.6                        | 3505                  | 650                   | 75*                   | 23*                  | 14                      | 94                       |
| <b>AON6413</b>          | <b>NEW</b> | <b>DFN 5x6</b> | <b>Single</b>       | <b>Load Switch</b>     | <b>P</b>  | <b>Yes</b>     | <b>No</b>     | <b>-30</b>          | <b>25</b>            | <b>-32</b>         | <b>-25</b> | <b>48</b>          | <b>19</b> | <b>8.5</b>                                        | <b>17</b>  |            |      |      | <b>-2.7</b> | <b>2142</b>                 | <b>363</b>            | <b>18.5</b>           | <b>6</b>              | <b>13</b>            | <b>34</b>               |                          |
| AON6435                 | DFN 5x6    | Single         | Load Switch         | P                      | No        | No             |               | -30                 | 25                   | -34                | -21.5      | 31                 | 12.5      | 17                                                | 34         |            |      |      |             | -3                          | 1130                  | 155                   | 10                    | 6                    | 10                      | 15                       |
| AON6816                 | DFN 5x6    | Dual           | General Purpose     | N                      | Yes       | No             |               | 30                  | 20                   | 16                 | 13         | 21                 | 8         | 6.2                                               | 9.6        |            |      |      |             | 2.2                         | 1540                  | 448                   | 19.7                  | 15                   | 7                       | 24                       |
| AON6810                 | DFN 5x6B   | Common Drain   | Battery Management  | N                      | Yes       | No             |               | 30                  | 20                   | 20                 | 16         | 31                 | 12.5      | 4.4                                               | 6.5        |            |      |      |             | 2.2                         | 1720                  | 61                    | 11                    | 3.2                  | 5.8                     | 57.5                     |
| AON6812                 | DFN 5x6B   | Common Drain   | Battery Management  | N                      | Yes       | No             |               | 30                  | 20                   | 28                 | 22         | 31                 | 12.5      | 4                                                 | 6          |            |      |      |             | 2.2                         | 1720                  | 61                    | 11                    | 3.2                  | 5.8                     | 57.5                     |
| AON6906A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 48                 | 30         | 45                 | 18        | 11.7                                              | 17.5       |            |      |      |             | 2.3                         | 570                   | 20                    | 3.5                   | 1.4                  | 4.1                     | 15.2                     |
| AON6906A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 37                 | 23         | 31                 | 12.5      | 14.4                                              | 21.3       |            |      |      |             | 2.4                         | 510                   | 22                    | 3.3                   | 1.4                  | 4.3                     | 15.8                     |
| AON6908A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | Yes            | SRFET         | 30                  | 12                   | 80                 | 62         | 78                 | 31        | 3.6                                               | 4.5        |            |      |      |             | 2                           | 4380                  | 280                   | 31                    | 9                    | 10                      | 50                       |
| AON6908A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 46                 | 28         | 31                 | 12        | 8.9                                               | 12.5       |            |      |      |             | 2.4                         | 850                   | 30                    | 5.7                   | 2.6                  | 5                       | 18.5                     |
| AON6910A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | Yes            | SRFET         | 30                  | 12                   | 80                 | 52         | 52                 | 20        | 4.1                                               | 5          |            |      |      |             | 2                           | 3415                  | 232                   | 24                    | 10                   | 9                       | 47                       |
| AON6910A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 37                 | 23         | 31                 | 12.5      | 14                                                | 20         |            |      |      |             | 2.4                         | 510                   | 22                    | 3.3                   | 1.4                  | 4.3                     | 15.8                     |
| AON6912A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 52                 | 33         | 30                 | 12        | 7.3                                               | 10.4       |            |      |      |             | 2.5                         | 1090                  | 38                    | 7                     | 2.5                  | 5                       | 16                       |
| AON6912A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 34                 | 21         | 22                 | 9         | 13.7                                              | 19.3       |            |      |      |             | 2.5                         | 760                   | 70                    | 6.6                   | 3                    | 4.4                     | 17                       |
| AON6920                 | DFN 5x6A   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 60                 | 38         | 31                 | 12.5      | 5.2                                               | 7.8        |            |      |      |             | 2.3                         | 1300                  | 35                    | 7.2                   | 1.8                  | 5                       | 20                       |
| AON6920                 | DFN 5x6A   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 85                 | 66         | 104                | 41.5      | 1.8                                               | 2.7        |            |      |      |             | 2.3                         | 4000                  | 65                    | 23                    | 6                    | 7                       | 33                       |
| AON6924                 | DFN 5x6A   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 60                 | 38         | 31                 | 12.5      | 5.2                                               | 7.8        |            |      |      |             | 2.3                         | 1300                  | 35                    | 7.2                   | 1.8                  | 5                       | 20                       |
| AON6924                 | DFN 5x6A   | Asymmetric     | SMPS                | N                      | No        | Yes            | SRFET         | 30                  | 12                   | 85                 | 66         | 104                | 14.5      | 1.6                                               | 1.9        |            |      |      |             | 2.1                         | 8190                  | 670                   | 60                    | 20                   | 15                      | 103                      |
| AON6926                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 50                 | 32         | 35                 | 14        | 8.5                                               | 12         |            |      |      |             | 2.4                         | 1130                  | 40                    | 8                     | 3                    | 6                       | 19                       |
| AON6926                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 44                 | 28         | 31                 | 12.5      | 11                                                | 14         |            |      |      |             | 2.5                         | 1150                  | 105                   | 9.5                   | 5                    | 6.5                     | 17                       |
| AON6928                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 30                 | 23         | 31                 | 12.5      | 8.2                                               | 11.5       |            |      |      |             | 2.5                         | 1150                  | 105                   | 9.5                   | 5                    | 6.5                     | 17                       |
| AON6928                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 36                 | 28         | 33                 | 13        | 2.9                                               | 4.4        |            |      |      |             | 2.2                         | 2010                  | 124                   | 17                    | 8                    | 7.5                     | 37                       |
| AON6932A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 28                 | 22         | 31                 | 12        | 5                                                 | 8.5        |            |      |      |             | 2.2                         | 1037                  | 61                    | 6.8                   | 3.6                  | 5.5                     | 18                       |
| AON6932A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 42                 | 33         | 78                 | 31        | 2.5                                               | 3.2        |            |      |      |             | 1.9                         | 3430                  | 175                   | 25                    | 10.3                 | 7.5                     | 33.8                     |
| AON6934A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 28                 | 22         | 31                 | 12        | 5.2                                               | 9.5        |            |      |      |             | 2.2                         | 1037                  | 61                    | 6.8                   | 3.6                  | 5.5                     | 18                       |
| AON6934A                | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 36                 | 28         | 33                 | 13        | 2.9                                               | 4.4        |            |      |      |             | 2.2                         | 2010                  | 124                   | 17                    | 8                    | 7.5                     | 37                       |
| AON6936                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 44                 | 34         | 83                 | 33        | 2                                                 | 2.8        |            |      |      |             | 2.3                         | 4178                  | 261                   | 29                    | 10.5                 | 39.8                    | 92.5                     |
| AON6936                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 32                 | 25         | 31                 | 12        | 4.9                                               | 8.4        |            |      |      |             | 2.5                         | 984                   | 66                    | 8.3                   | 2.8                  | 21.8                    | 51.3                     |
| AON6938                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 30                 | 23         | 31                 | 12.5      | 8.2                                               | 11.5       |            |      |      |             | 2.5                         | 1150                  | 105                   | 9.5                   | 5                    | 6.5                     | 17                       |
| AON6938                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 42                 | 33         | 78                 | 31        | 2.2                                               | 3.3        |            |      |      |             | 2.2                         | 2719                  | 169                   | 21                    | 7                    | 9.7                     | 32.5                     |
| AON6946                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 16                 | 12         | 7.3                | 2.9       | 11.6                                              | 17         |            |      |      |             | 2.2                         | 485                   | 32                    | 3.9                   | 2.1                  | 3.5                     | 16.3                     |
| AON6946                 | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 18                 | 14         | 13                 | 5.2       | 7.8                                               | 11.8       |            |      |      |             | 2.2                         | 807                   | 40                    | 6                     | 3                    | 4.8                     | 18.8                     |
| AON6970                 | DFN 5x6D   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 85                 | 66         | 78                 | 31        | 1.5                                               | 2.3        |            |      |      |             | 2.3                         | 3973                  | 134                   | 27                    | 10                   | 11.5                    | 38                       |
| AON6970                 | DFN 5x6D   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 58                 | 36         | 31                 | 12        | 5.4                                               | 8.5        |            |      |      |             | 2.3                         | 1171                  | 59                    | 8                     | 2                    | 6.5                     | 17                       |
| AON6973A <sup>(1)</sup> | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 28                 | 22         | 31                 | 12        | 5.2                                               | 9.5        |            |      |      |             | 2.2                         | 951                   | 62                    | 7.5                   | 3.2                  | 6.25                    | 18.5                     |
| AON6973A <sup>(1)</sup> | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 36                 | 28         | 33                 | 13        | 3.8                                               | 6.4        |            |      |      |             | 2.4                         | 1975                  | 92                    | 13.6                  | 5.3                  | 7.9                     | 27.3                     |
| AON6974A <sup>(1)</sup> | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 28                 | 22         | 31                 | 12        | 5.2                                               | 9.5        |            |      |      |             | 2.2                         | 951                   | 62                    | 7.5                   | 3.2                  | 6.25                    | 18.5                     |
| AON6974A <sup>(1)</sup> | DFN 5x6B   | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 36                 | 28         | 33                 | 13        | 3.2                                               | 5          |            |      |      |             | 2.4                         | 1975                  | 92                    | 13.6                  | 5.3                  | 7.9                     | 27.3                     |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number           | Package    | Configuration   | Popular Application | Type                   | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |            | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |             |            |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |  |
|-----------------------|------------|-----------------|---------------------|------------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|------------|---------------------------------------------------|-------------|------------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|--|
|                       |            |                 |                     |                        |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C       | 10V                                               | 4.5V        | 2.5V       | 1.8V | 1.5V | 1.2V |                             |                       |                       |                       |                      |                         |                          |  |
| AON6978               | DFN 5x6B   | Asymmetric      | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 28                 | 22         | 31                 | 12         | 5.7                                               | 9.4         |            |      |      |      | 2.2                         | 1010                  | 50                    | 6.8                   | 2.5                  | 4.8                     | 21                       |  |
| AON6978               | DFN 5x6B   | Asymmetric      | SMPS                | N                      | No        | Yes            | SRFET         | 30                  | 12                   | 36                 | 28         | 33                 | 13         | 3.8                                               | 4.9         |            |      |      |      | 2                           | 3276                  | 57                    | 20.6                  | 4.6                  | 8                       | 36                       |  |
| <b>AON6980</b>        | <b>NEW</b> | <b>DFN 5x6B</b> | <b>Asymmetric</b>   | <b>SMPS</b>            | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>28</b>          | <b>22</b>  | <b>23.5</b>        | <b>9.4</b> | <b>6.8</b>                                        | <b>10.3</b> |            |      |      |      | <b>2.2</b>                  | <b>1095</b>           | <b>28</b>             | <b>6.4</b>            | <b>2</b>             | <b>8</b>                | <b>17.2</b>              |  |
| <b>AON6980</b>        | <b>NEW</b> | <b>DFN 5x6B</b> | <b>Asymmetric</b>   | <b>SMPS</b>            | <b>N</b>  | <b>No</b>      | <b>Yes</b>    | <b>SRFET</b>        | <b>30</b>            | <b>12</b>          | <b>36</b>  | <b>28</b>          | <b>32</b>  | <b>13</b>                                         | <b>3.8</b>  | <b>4.9</b> |      |      |      | <b>2</b>                    | <b>3440</b>           | <b>60</b>             | <b>21</b>             | <b>3.7</b>           | <b>8.5</b>              | <b>34</b>                |  |
| AON6918               | DFN 5x6A   | Asymmetric      | SMPS                | N                      | No        | No             |               | 25                  | 20                   | 60                 | 38         | 31                 | 12.5       | 5.2                                               | 7.8         |            |      |      |      | 2.3                         | 1300                  | 35                    | 7.2                   | 1.8                  | 5                       | 20                       |  |
| AON6918               | DFN 5x6A   | Asymmetric      | SMPS                | N                      | No        | No             |               | 25                  | 20                   | 85                 | 66         | 104                | 41.5       | 1.8                                               | 2.7         |            |      |      |      | 2.3                         | 4000                  | 65                    | 23                    | 6                    | 7                       | 33                       |  |
| AON6922               | DFN 5x6A   | Asymmetric      | SMPS                | N                      | No        | No             |               | 25                  | 12                   | 71                 | 44         | 31                 | 12.5       | 3.8                                               | 4.8         |            |      |      |      | 1.7                         | 1950                  | 70                    | 11.2                  | 4                    | 5.5                     | 30                       |  |
| AON6922               | DFN 5x6A   | Asymmetric      | SMPS                | N                      | No        | No             |               | 25                  | 12                   | 85                 | 66         | 104                | 41.5       | 1.4                                               | 1.8         |            |      |      |      | 1.7                         | 5690                  | 165                   | 26                    | 5.7                  | 9                       | 60                       |  |
| <b>SO-8</b>           |            |                 |                     |                        |           |                |               |                     |                      |                    |            |                    |            |                                                   |             |            |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AO4310                | SO-8       | Single          | General Purpose     | N                      | No        | No             |               | 36                  | 20                   | 27                 | 22         | 3.6                | 2.3        | 3.1                                               | 4.2         |            |      |      |      | 2.3                         | 3248                  | 54                    | 20.6                  | 6.2                  | 8.5                     | 40.8                     |  |
| AO4312                | SO-8       | Single          | Battery Protection  | N                      | No        | No             |               | 36                  | 20                   | 23                 | 18         | 4.2                | 2.7        | 4.5                                               | 6.2         |            |      |      |      | 2.3                         | 1952                  | 50                    | 12.7                  | 4.7                  | 7                       | 26                       |  |
| AO4314                | SO-8       | Single          | Battery Protection  | N                      | No        | No             |               | 36                  | 20                   | 20                 | 16         | 4.2                | 2.7        | 6                                                 | 8.5         |            |      |      |      | 2.3                         | 1225                  | 35                    | 8.6                   | 3.2                  | 4.5                     | 20.3                     |  |
| AO4202                | SO-8       | Single          | SMPS Low Side       | N                      | No        | No             |               | 30                  | 20                   | 19                 | 15         | 3.1                | 2          | 5.3                                               | 7           |            |      |      |      | 2.3                         | 1840                  | 63                    | 13                    | 4.2                  | 6.5                     | 21                       |  |
| AO4302                | SO-8       | Single          | Battery Protection  | N                      | Yes       | No             |               | 30                  | 20                   | 23                 | 18         | 3.6                | 2.3        | 4                                                 | 5           |            |      |      |      | 2.3                         | 2891                  | 256                   | 24.8                  | 10.9                 | 7                       | 41.5                     |  |
| AO4304                | SO-8       | Single          | Battery Protection  | N                      | No        | No             |               | 30                  | 20                   | 18                 | 14         | 3.6                | 2.3        | 6                                                 | 7.6         |            |      |      |      | 2.4                         | 1598                  | 154                   | 11.1                  | 5.6                  | 7.3                     | 25                       |  |
| AO4354                | SO-8       | Single          | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 23                 | 14         | 3.1                | 1.2        | 3.7                                               | 5.3         |            |      |      |      | 2.2                         | 2010                  | 124                   | 17                    | 8                    | 7.5                     | 37                       |  |
| AO4404B               | SO-8       | Single          | General Purpose     | N                      | No        | No             |               | 30                  | 12                   | 8.5                | 7.1        | 3.1                | 2          | 24                                                | 30          | 48         |      |      |      | 1.45                        | 630                   | 50                    | 6                     | 1.8                  | 3                       | 25                       |  |
| AO4406A               | SO-8       | Single          | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 13                 | 10.4       | 3.1                | 2          | 11.5                                              | 15.5        |            |      |      |      | 2.5                         | 760                   | 70                    | 6.6                   | 3                    | 4.4                     | 17                       |  |
| AO4410 <sup>(1)</sup> | SO-8       | Single          | SMPS Low Side       | N                      | No        | No             |               | 30                  | 12                   | 18                 | 15         | 3                  | 2.1        | 5.5                                               | 6.2         |            |      |      |      | 1.5                         | 9130                  | 387                   | 72.4                  | 16.8                 | 11                      | 99                       |  |
| AO4430                | SO-8       | Single          | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 18                 | 15         | 3                  | 2.1        | 5.5                                               | 7.5         |            |      |      |      | 2.5                         | 6060                  | 355                   | 48                    | 15                   | 12                      | 51.5                     |  |
| AO4446                | SO-8       | Single          | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 15                 | 12         | 3                  | 2.1        | 8.5                                               | 14.5        |            |      |      |      | 3                           | 1520                  | 214                   | 17                    | 10                   | 7.2                     | 22                       |  |
| AO4466                | SO-8       | Single          | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 10                 | 7          | 3.1                | 2          | 23                                                | 35          |            |      |      |      | 2.6                         | 373                   | 41                    | 3.5                   | 1.6                  | 4.3                     | 15.8                     |  |
| AO4468                | SO-8       | Single          | Load Switch         | N                      | No        | No             |               | 30                  | 20                   | 10.5               | 8.5        | 3.1                | 2          | 17                                                | 23          |            |      |      |      | 2.4                         | 740                   | 82                    | 7.5                   | 3                    | 5                       | 19                       |  |
| AO4476A               | SO-8       | Single          | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 15                 | 12         | 3.1                | 2          | 7.7                                               | 10.8        |            |      |      |      | 2.5                         | 1150                  | 105                   | 9.5                   | 5                    | 6.5                     | 17                       |  |
| AO4478                | SO-8       | Single          | General Purpose     | N                      | No        | No             |               | 30                  | 25                   | 9                  | 7          | 3.1                | 2          | 19                                                | 26          |            |      |      |      | 2                           | 466                   | 61                    | 4.3                   | 2.3                  | 5                       | 20                       |  |
| AO4490                | SO-8       | Single          | Load Switch         | N                      | Yes       | No             |               | 30                  | 20                   | 16                 | 13         | 2.8                | 1.8        | 7.2                                               | 10          |            |      |      |      | 2.5                         | 1803                  | 238                   | 19*                   | 8.7                  | 7.6                     | 27                       |  |
| AO4492                | SO-8       | Single          | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 14                 | 11.4       | 3.1                | 2          | 9.5                                               | 14          |            |      |      |      | 2.2                         | 770                   | 77                    | 7.1                   | 3.1                  | 5                       | 18                       |  |
| AO4494                | SO-8       | Single          | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 18                 | 14         | 3.1                | 2          | 6.5                                               | 9.5         |            |      |      |      | 2.5                         | 1590                  | 145                   | 15                    | 7.8                  | 6.7                     | 22.5                     |  |
| AO4496                | SO-8       | Single          | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 10                 | 7.5        | 3.1                | 2          | 19.5                                              | 26          |            |      |      |      | 2.5                         | 550                   | 55                    | 4.6                   | 2.2                  | 5                       | 24                       |  |
| AO4498                | SO-8       | Single          | Load Switch         | N                      | No        | No             |               | 30                  | 20                   | 18                 | 14         | 3.1                | 2          | 5.5                                               | 7.5         |            |      |      |      | 2.5                         | 1910                  | 227                   | 18                    | 11                   | 8.1                     | 29                       |  |
| AO4498E               | SO-8       | Single          | Load Switch         | N                      | Yes       | No             |               | 30                  | 20                   | 18                 | 14         | 3.1                | 2          | 5.8                                               | 8.5         |            |      |      |      | 2.3                         | 2300                  | 240                   | 20                    | 10                   | 8                       | 33                       |  |
| AO4566                | SO-8       | Single          | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 12                 | 9.4        | 2.5                | 1.6        | 11                                                | 17          |            |      |      |      | 2.3                         | 542                   | 31                    | 4.3                   | 1.7                  | 4                       | 18                       |  |
| <b>AO4568</b>         | <b>NEW</b> | <b>SO-8</b>     | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>12</b>          | <b>9.4</b> | <b>2.5</b>         | <b>1.6</b> | <b>11.5</b>                                       | <b>17.5</b> |            |      |      |      | <b>2.2</b>                  | <b>600</b>            | <b>30</b>             | <b>4.4</b>            | <b>1.9</b>           | <b>5</b>                | <b>17.5</b>              |  |
| AO4576                | SO-8       | Single          | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 20                 | 12         | 3.1                | 1.2        | 5.8                                               | 9.8         |            |      |      |      | 2.2                         | 1037                  | 61                    | 6.8                   | 3.6                  | 5.5                     | 18                       |  |
| AO4578                | SO-8       | Single          | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 20                 | 15         | 3.1                | 2          | 5.7                                               | 9           |            |      |      |      | 2.2                         | 1128                  | 59                    | 7.4                   | 2.3                  | 5.5                     | 22.5                     |  |
| AO4588                | SO-8       | Single          | Load Switch         | N                      | Yes       | No             |               | 30                  | 20                   | 20                 | 15.5       | 3.1                | 2          | 4.8                                               | 6.2         |            |      |      |      | 2.4                         | 2445                  | 220                   | 19                    | 6.6                  | 7                       | 41.5                     |  |
| AO4752                | SO-8       | Single          | General Purpose     | N                      | No        | Yes            | SRFET         | 30                  | 20                   | 15                 | 12         | 3.1                | 2          | 8.8                                               | 15.5        |            |      |      |      | 2.5                         | 605                   | 36.5                  | 5.5                   | 2.6                  | 5                       | 17                       |  |
| AO4402                | SO-8       | Single          | Load Switch         | N                      | No        | No             |               | 20                  | 12                   | 20                 | 16         | 3.1                | 2          |                                                   | 5.5         | 7          |      |      |      | 1.6                         | 3860                  | 580                   | 36                    | 12                   | 7                       | 70                       |  |
| AO4437                | SO-8       | Single          | Load Switch         | P                      | Yes       | No             |               | -12                 | 8                    | -11                | -9         | 3                  | 2.1        |                                                   | 16          | 20         | 25   |      |      | -1                          | 3960                  | 757                   | 37                    | 11                   | 15                      | 158                      |  |
| AO4453                | SO-8       | Single          | Load Switch         | P                      | No        | No             |               | -12                 | 8                    | -9                 | -7         | 2.5                | 1.6        |                                                   | 19          | 26         | 36   | 50   |      | -0.9                        | 1370                  | 258                   | 12.7                  | 3.4                  | 11                      | 70                       |  |
| AO4403                | SO-8       | Single          | General Purpose     | P                      | No        | No             |               | -30                 | 12                   | -6                 | -5         | 3.1                | 2          | 48                                                | 57          | 80         |      |      |      | -1.3                        | 645                   | 55                    | 7                     | 2.5                  | 6.5                     | 41                       |  |
| AO4405                | SO-8       | Single          | General Purpose     | P                      | No        | No             |               | -30                 | 20                   | -6                 | -5.1       | 3.1                | 2          | 50                                                | 85          |            |      |      |      | -2.4                        | 520                   | 65                    | 4.6                   | 2.2                  | 7.5                     | 19                       |  |
| AO4407                | SO-8       | Single          | Load Switch         | P                      | No        | No             |               | -30                 | 25                   | -12                | -10        | 3.1                | 2          | 14                                                |             |            |      |      |      | -2.8                        | 2060                  | 295                   | 30                    | 10                   | 11                      | 24                       |  |
| AO4407A               | SO-8       | Single          | Load Switch         | P                      | No        | No             |               | -30                 | 25                   | -12                | -10        | 3.1                | 2          | 13                                                |             |            |      |      |      | -3                          | 2060                  | 295                   | 30*                   | 10                   | 11                      | 24                       |  |
| AO4409                | SO-8       | Single          | Load Switch         | P                      | No        | No             |               | -30                 | 20                   | -15                | -12.8      | 3.1                | 2          | 7.5                                               | 12          |            |      |      |      | -2.7                        | 5270                  | 745                   | 51.5                  | 23                   | 14                      | 76.5                     |  |
| AO4411                | SO-8       | Single          | General Purpose     | P                      | No        | No             |               | -30                 | 20                   | -8                 | -6.6       | 3.1                | 2          | 32                                                | 55          |            |      |      |      | -2.4                        | 760                   | 95                    | 6.7                   | 3.2                  | 8                       | 17                       |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number           | Package    | Configuration | Popular Application | Type            | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |            | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |           |      |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |
|-----------------------|------------|---------------|---------------------|-----------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|------------|---------------------------------------------------|-----------|------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|
|                       |            |               |                     |                 |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C       | 10V                                               | 4.5V      | 2.5V | 1.8V | 1.5V | 1.2V |                             |                       |                       |                       |                      |                         |                          |
| AO4413                | SO-8       | Single        | Load Switch         | P               | No        | No             |               | -30                 | 25                   | -15                | -12.8      | 3.1                | 2          | 8.5                                               |           |      |      |      |      | -3.5                        | 2890                  | 470                   | 51*                   | 16                   | 16                      | 45                       |
| AO4419                | SO-8       | Single        | General Purpose     | P               | No        | No             |               | -30                 | 20                   | -9.7               | -7.8       | 3.1                | 2          | 20                                                | 35        |      |      |      |      | -2.5                        | 1040                  | 125                   | 9.6                   | 4.6                  | 10                      | 26                       |
| AO4423                | SO-8       | Single        | Load Switch         | P               | Yes       | No             |               | -30                 | 25                   | -17                | -14        | 3.1                | 2          | 7.2                                               |           |      |      |      |      | -2.6                        | 2527                  | 397                   | 47*                   | 14                   | 12                      | 54                       |
| AO4435                | SO-8       | Single        | Load Switch         | P               | No        | No             |               | -30                 | 25                   | -10.5              | -8         | 3.1                | 2          | 18                                                | 36        |      |      |      |      | -3                          | 1130                  | 155                   | 9.5                   | 3.3                  | 8.7                     | 18                       |
| AO4447 <sup>(1)</sup> | SO-8       | Single        | Load Switch         | P               | Yes       | No             |               | -30                 | 20                   | -15                | -13.6      | 3.1                | 2          | 7.5                                               |           |      |      |      |      | -1.6                        | 5500                  | 473                   | 45.2                  | 19.4                 | 12                      | 100                      |
| AO4447A               | SO-8       | Single        | Load Switch         | P               | Yes       | No             |               | -30                 | 20                   | -17                | -13        | 3.1                | 2          | 7                                                 | 8         |      |      |      |      | -1.6                        | 4580                  | 564                   | 41                    | 17                   | 180                     | 1200                     |
| AO4449                | SO-8       | Single        | Load Switch         | P               | No        | No             |               | -30                 | 20                   | -7                 | -5.5       | 3.1                | 2          | 34                                                | 54        |      |      |      |      | -2.4                        | 760                   | 95                    | 6.7                   | 3.2                  | 8                       | 17                       |
| AO4455                | SO-8       | Single        | Load Switch         | P               | Yes       | No             |               | -30                 | 25                   | -17                | -14        | 3.1                | 2          | 7.2                                               |           |      |      |      |      | -2.6                        | 2823                  | 424                   | 54*                   | 16*                  | 12.5                    | 49                       |
| AO4459                | SO-8       | Single        | Load Switch         | P               | No        | No             |               | -30                 | 20                   | -6.5               | -5.3       | 3.1                | 2          | 46                                                | 72        |      |      |      |      | -2.4                        | 520                   | 65                    | 4.6                   | 2.2                  | 7.5                     | 19                       |
| AO4771                | SO-8       | Single        | General Purpose     | P               | No        | Yes            | 4 A           | -30                 | 20                   | -4                 | -3         | 2                  | 1.3        | 68                                                | 105       |      |      |      |      | -2.3                        | 290                   | 40                    | 2.8                   | 1.3                  | 6                       | 21                       |
| AO4425                | SO-8       | Single        | Load Switch         | P               | Yes       | No             |               | -38                 | 25                   | -14                | -11        | 3.1                | 2          | 11                                                |           |      |      |      |      | -3.5                        | 3800                  | 350                   | 63*                   | 16.1                 | 12.4                    | 97.5                     |
| AO4800                | SO-8       | Dual          | General Purpose     | N               | No        | No             |               | 30                  | 12                   | 6.9                | 5.8        | 2                  | 1.3        | 27                                                | 32        | 50   |      |      |      | 1.5                         | 630                   | 50                    | 6                     | 1.8                  | 3                       | 25                       |
| AO4800B               | SO-8       | Dual          | General Purpose     | N               | No        | No             |               | 30                  | 12                   | 6.9                | 5.8        | 2                  | 1.3        | 27                                                | 32        | 50   |      |      |      | 1.5                         | 630                   | 50                    | 6                     | 1.8                  | 3                       | 25                       |
| AO4812                | SO-8       | Dual          | General Purpose     | N               | No        | No             |               | 30                  | 20                   | 6                  | 5          | 2                  | 1.3        | 30                                                | 42        |      |      |      |      | 2.4                         | 255                   | 35                    | 2.55                  | 1.3                  | 4.5                     | 14.5                     |
| AO4818                | SO-8       | Dual          | General Purpose     | N               | Yes       | No             |               | 30                  | 20                   | 8                  | 6.5        | 2                  | 1.3        | 19                                                | 23        |      |      |      |      | 2.4                         | 740                   | 82                    | 7.5                   | 3                    | 5                       | 19                       |
| AO4818B               | SO-8       | Dual          | General Purpose     | N               | Yes       | No             |               | 30                  | 20                   | 8.5                | 6.5        | 2                  | 1.3        | 19                                                | 26        |      |      |      |      | 2.4                         | 740                   | 82                    | 7.5                   | 3                    | 5                       | 19                       |
| AO4822 <sup>(1)</sup> | SO-8       | Dual          | General Purpose     | N               | No        | No             |               | 30                  | 20                   | 8                  | 6.5        | 2                  | 1.3        | 19                                                | 26        |      |      |      |      | 2.4                         | 740                   | 82                    | 7.5                   | 3                    | 5                       | 19                       |
| AO4822A               | SO-8       | Dual          | General Purpose     | N               | No        | No             |               | 30                  | 20                   | 8.5                | 6.5        | 2                  | 1.3        | 19                                                | 26        |      |      |      |      | 2.4                         | 740                   | 82                    | 7.5                   | 3                    | 5                       | 19                       |
| AO4832                | SO-8       | Dual          | SMPS                | N               | No        | No             |               | 30                  | 20                   | 10                 | 8          | 2                  | 1.3        | 13                                                | 17.5      |      |      |      |      | 2.5                         | 760                   | 70                    | 6.6                   | 3                    | 4.4                     | 17                       |
| AO4838                | SO-8       | Dual          | SMPS                | N               | No        | No             |               | 30                  | 20                   | 11                 | 9          | 2                  | 1.3        | 9.6                                               | 13        |      |      |      |      | 2.6                         | 1080                  | 110                   | 8                     | 3                    | 6                       | 21                       |
| AO4842                | SO-8       | Dual          | General Purpose     | N               | No        | No             |               | 30                  | 20                   | 7.7                | 6.5        | 2                  | 1.44       | 22                                                | 32        |      |      |      |      | 2.6                         | 373                   | 41                    | 3.5                   | 1.7                  | 4.5                     | 14.9                     |
| AO4854                | SO-8       | Dual          | SMPS                | N               | Yes       | No             |               | 30                  | 20                   | 8                  | 6.5        | 2                  | 1.3        | 19                                                | 23        |      |      |      |      | 2.4                         | 740                   | 82                    | 7.5                   | 3                    | 5                       | 19                       |
| <b>AO4862</b>         | <b>NEW</b> | <b>SO-8</b>   | <b>Dual</b>         | <b>Inverter</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>4.5</b>         | <b>3.5</b> | <b>1.7</b>         | <b>1.1</b> | <b>50</b>                                         | <b>68</b> |      |      |      |      | <b>2.5</b>                  | <b>200</b>            | <b>25</b>             | <b>2</b>              | <b>1</b>             | <b>4.5</b>              | <b>18.5</b>              |
| AO4806                | SO-8       | Dual          | General Purpose     | N               | Yes       | No             |               | 20                  | 12                   | 9.4                | 7.5        | 2                  | 1.28       | 14                                                | 16        | 22   | 30   |      |      | 1                           | 1810                  | 200                   | 17.9                  | 4.7                  | 3.3                     | 44                       |
| AO9926B               | SO-8       | Dual          | Battery Protection  | N               | No        | No             |               | 20                  | 12                   | 7.6                | 6.1        | 2                  | 1.28       | 23                                                | 26        | 34   | 52   |      |      | 1.1                         | 525                   | 75                    | 6                     | 2                    | 3                       | 20                       |
| AO9926C               | SO-8       | Dual          | Battery Protection  | N               | No        | No             |               | 20                  | 12                   | 7.6                | 6.1        | 2                  | 1.28       | 23                                                | 26        | 34   | 52   |      |      | 1.1                         | 525                   | 75                    | 6                     | 2                    | 3                       | 20                       |
| AO4821                | SO-8       | Dual          | Load Switch         | P               | Yes       | No             |               | -12                 | 8                    | -9                 | -7         | 2                  | 1.28       |                                                   | 19        | 24   | 30   |      |      | -0.85                       | 1710                  | 200                   | 19                    | 5.3                  | 240                     | 7000                     |
| AO4801                | SO-8       | Dual          | General Purpose     | P               | No        | No             |               | -30                 | 12                   | -5                 | -4         | 2                  | 1.3        | 48                                                | 57        | 80   |      |      |      | -1.3                        | 645                   | 55                    | 7                     | 2.5                  | 6.5                     | 41                       |
| AO4801A               | SO-8       | Dual          | General Purpose     | P               | No        | No             |               | -30                 | 12                   | -5                 | -4         | 2                  | 1.3        | 48                                                | 57        | 80   |      |      |      | -1.3                        | 645                   | 55                    | 7                     | 2.5                  | 6.5                     | 41                       |
| AO4803                | SO-8       | Dual          | General Purpose     | P               | No        | No             |               | -30                 | 20                   | -5                 | -4.2       | 2                  | 1.3        | 52                                                | 87        |      |      |      |      | -2.4                        | 520                   | 65                    | 4.6                   | 2.2                  | 7.5                     | 19                       |
| AO4803A               | SO-8       | Dual          | General Purpose     | P               | No        | No             |               | -30                 | 20                   | -5                 | -4         | 2                  | 1.3        | 46                                                | 74        |      |      |      |      | -2.5                        | 520                   | 65                    | 4.6                   | 2.2                  | 7.5                     | 19                       |
| AO4805                | SO-8       | Dual          | Load Switch         | P               | No        | No             |               | -30                 | 25                   | -9                 | -7         | 2                  | 1.3        | 18                                                |           |      |      |      |      | -2.8                        | 2060                  | 295                   | 30*                   | 10                   | 11                      | 24                       |
| AO4807                | SO-8       | Dual          | General Purpose     | P               | No        | No             |               | -30                 | 20                   | -6                 | -5         | 2                  | 1.3        | 35                                                | 58        |      |      |      |      | -2.4                        | 760                   | 95                    | 6.7                   | 3.2                  | 8                       | 17                       |
| AO4813                | SO-8       | Dual          | General Purpose     | P               | No        | No             |               | -30                 | 20                   | -7.1               | -5.6       | 2                  | 1.3        | 25                                                | 40        |      |      |      |      | -2.5                        | 1040                  | 125                   | 9.3                   | 4.6                  | 10                      | 26                       |
| AO4815                | SO-8       | Dual          | Load Switch         | P               | Yes       | No             |               | -30                 | 25                   | -8                 | -6.9       | 2                  | 1.44       | 20                                                |           |      |      |      |      | -3                          | 2330                  | 320                   | 41*                   | 12                   | 13                      | 51                       |
| AO4817 <sup>(1)</sup> | SO-8       | Dual          | Load Switch         | P               | Yes       | No             |               | -30                 | 25                   | -8                 | -6.9       | 2                  | 1.44       | 21                                                |           |      |      |      |      | -3                          | 1760                  | 255                   | 30*                   | 8                    | 12.5                    | 40                       |
| AO4606                | SO-8       | Complementary | Inverter            | N               | No        | No             |               | 30                  | 20                   | 6                  | 5          | 2                  | 1.3        | 30                                                | 42        |      |      |      |      | 2.4                         | 255                   | 35                    | 2.55                  | 1.3                  | 4.5                     | 14.5                     |
| AO4606                | SO-8       | Complementary | Inverter            | P               | No        | No             |               | -30                 | 20                   | -6.5               | -5.3       | 2                  | 1.3        | 28                                                | 44        |      |      |      |      | -2.4                        | 760                   | 95                    | 6.7                   | 3.2                  | 8                       | 17                       |
| AO4616                | SO-8       | Complementary | Inverter            | N               | No        | No             |               | 30                  | 20                   | 8.5                | 6.5        | 2                  | 1.28       | 20                                                | 28        |      |      |      |      | 3                           | 1040                  | 110                   | 9.36                  | 4.2                  | 5.2                     | 17.3                     |
| AO4616                | SO-8       | Complementary | Inverter            | P               | No        | No             |               | -30                 | 20                   | -7.1               | -5.6       | 2                  | 1.28       | 25                                                | 40        |      |      |      |      | -2.7                        | 1573                  | 211                   | 16.1                  | 4.4                  | 9.5                     | 44.2                     |
| AO4620                | SO-8       | Complementary | Inverter            | N               | No        | No             |               | 30                  | 20                   | 7.2                | 6.2        | 2                  | 1.44       | 24                                                | 36        |      |      |      |      | 2.6                         | 373                   | 41                    | 3.5                   | 1.7                  | 4.5                     | 14.9                     |
| AO4620                | SO-8       | Complementary | Inverter            | P               | No        | No             |               | -30                 | 20                   | -5.3               | -4.5       | 2                  | 1.44       | 32                                                | 55        |      |      |      |      | -2.4                        | 760                   | 95                    | 6.7                   | 3.2                  | 8                       | 17                       |
| AO4627                | SO-8       | Complementary | Inverter            | N               | No        | No             |               | 30                  | 20                   | 4.5                | 3.5        | 2                  | 1.3        | 50                                                | 68        |      |      |      |      | 2.5                         | 170                   | 23                    | 2                     | 1                    | 4.5                     | 18.5                     |
| AO4627                | SO-8       | Complementary | Inverter            | P               | No        | No             |               | -30                 | 20                   | -3.5               | -2.5       | 2                  | 1.3        | 100                                               | 165       |      |      |      |      | -2.4                        | 197                   | 26                    | 2.2                   | 1.1                  | 7.5                     | 11.8                     |
| AO4629                | SO-8       | Complementary | Inverter            | N               | No        | No             |               | 30                  | 20                   | 6                  | 5          | 2                  | 1.3        | 30                                                | 42        |      |      |      |      | 2.4                         | 250                   | 35                    | 2.55                  | 1.3                  | 4.5                     | 14.5                     |
| AO4629                | SO-8       | Complementary | Inverter            | P               | No        | No             |               | -30                 | 20                   | -5.5               | -4.5       | 2                  | 1.3        | 41                                                | 74        |      |      |      |      | -2.5                        | 520                   | 65                    | 4.6                   | 2.2                  | 7.5                     | 19                       |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number   | Package    | Configuration  | Popular Application | Type                   | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |            | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |            |      |      |      |      | VGS(th) (max V) | Ciss (pF)   | Crss (pF)  | Qg* (nC)    | Qgd (nC)   | Td(on) (ns) | Td(off) (ns) |  |
|---------------|------------|----------------|---------------------|------------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|------------|---------------------------------------------------|------------|------|------|------|------|-----------------|-------------|------------|-------------|------------|-------------|--------------|--|
|               |            |                |                     |                        |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C       | 10V                                               | 4.5V       | 2.5V | 1.8V | 1.5V | 1.2V |                 |             |            |             |            |             |              |  |
| AO4622        | SO-8       | Complementary  | Inverter            | N                      | No        | No             |               | 20                  | 16                   | 7.3                | 6.2        | 2                  | 1.44       | 23                                                | 30         | 84   |      |      |      | 2               | 900         | 105        | 7.2         | 2.8        | 4.5         | 18.7         |  |
| AO4622        | SO-8       | Complementary  | Inverter            | P                      | No        | No             |               | -20                 | 12                   | -5                 | -4.2       | 2                  | 1.44       |                                                   | 53         | 87   |      |      |      | -1.3            | 800         | 103        | 7.4         | 2.9        | 4.4         | 44           |  |
| AO4914        | SO-8       | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 8.5                | 6.5        | 2                  | 1.3        | 20.5                                              | 28         |      |      |      |      | 2.4             | 730         | 82         | 7.5         | 3          | 5           | 19           |  |
| AO4914        | SO-8       | Asymmetric     | SMPS                | N                      | No        | Yes            | 1A            | 30                  | 20                   | 8.5                | 6.5        | 2                  | 1.3        | 20.5                                              | 28         |      |      |      |      | 2.4             | 740         | 82         | 7.5         | 3          | 5           | 19           |  |
| AO4924        | SO-8       | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 12                   | 7.3                | 5.9        | 2                  | 1.3        | 24                                                | 29         |      |      |      |      | 1.5             | 900         | 65         | 10          | 3.75       | 3.2         | 21.5         |  |
| AO4924        | SO-8       | Asymmetric     | SMPS                | N                      | No        | Yes            | SRFET         | 30                  | 12                   | 9                  | 7.2        | 2                  | 1.3        | 15.8                                              | 19.5       |      |      |      |      | 2.4             | 1450        | 92         | 12          | 4.2        | 5.5         | 24           |  |
| <b>AO4932</b> | <b>NEW</b> | <b>SO-8</b>    | <b>Asymmetric</b>   | <b>SMPS</b>            | <b>N</b>  | <b>No</b>      |               | <b>30</b>           | <b>20</b>            | <b>8</b>           | <b>6.5</b> | <b>2</b>           | <b>1.3</b> | <b>19</b>                                         | <b>23</b>  |      |      |      |      | <b>2.4</b>      | <b>740</b>  | <b>82</b>  | <b>7.5</b>  | <b>3</b>   | <b>5</b>    | <b>19</b>    |  |
| <b>AO4932</b> | <b>NEW</b> | <b>SO-8</b>    | <b>Asymmetric</b>   | <b>SMPS</b>            | <b>N</b>  | <b>No</b>      | <b>Yes</b>    | <b>SRFET</b>        | <b>30</b>            | <b>11</b>          | <b>9</b>   | <b>2</b>           | <b>1.3</b> | <b>12.5</b>                                       | <b>15</b>  |      |      |      |      | <b>2.1</b>      | <b>1170</b> | <b>89</b>  | <b>8.7</b>  | <b>3</b>   | <b>6</b>    | <b>23</b>    |  |
| AO4948        | SO-8       | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 8                  | 6.5        | 2                  | 1.3        | 19                                                | 28         |      |      |      |      | 2.4             | 740         | 82         | 7.5         | 3          | 5           | 19           |  |
| AO4948        | SO-8       | Asymmetric     | SMPS                | N                      | No        | Yes            | SRFET         | 30                  | 20                   | 8.8                | 7.1        | 2                  | 1.3        | 16                                                | 22         |      |      |      |      | 2.2             | 1267        | 118        | 10.4        | 3.6        | 5.2         | 21.2         |  |
| AO4952        | SO-8       | Asymmetric     | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 11                 | 9          | 2                  | 1.3        | 11.5                                              | 16.5       |      |      |      |      | 2.2             | 542         | 31         | 4.3         | 1.7        | 4           | 18           |  |
| AO4952        | SO-8       | Asymmetric     | SMPS                | N                      | No        | Yes            | SRFET         | 30                  | 20                   | 11                 | 9          | 2                  | 1.3        | 10.5                                              | 15.5       |      |      |      |      | 2.5             | 605         | 37         | 4.9         | 2.3        | 5           | 17.5         |  |
| Ultra SO-8    |            |                |                     |                        |           |                |               |                     |                      |                    |            |                    |            |                                                   |            |      |      |      |      |                 |             |            |             |            |             |              |  |
| AOL1202       | Ultra SO-8 | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 54                 | 42         | 58                 | 29         | 4.2                                               | 6          |      |      |      |      | 2.3             | 1840        | 63         | 12          | 4.2        | 6.5         | 21           |  |
| AOL1208       | Ultra SO-8 | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 50                 | 36         | 50                 | 25         | 11                                                | 15         |      |      |      |      | 2.4             | 850         | 30         | 7           | 3.5        | 6           | 19.5         |  |
| AOL1426       | Ultra SO-8 | Single         | SMPS High Side      | N                      | No        | No             |               | 30                  | 12                   | 46                 | 33         | 43                 | 21         | 10.5                                              | 13.5       |      |      |      |      | 2.5             | 1210        | 85         | 10          | 2.7        | 10          | 21           |  |
| AOL1428A      | Ultra SO-8 | Single         | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 49                 | 38         | 93                 | 46         | 8                                                 | 11.5       |      |      |      |      | 2.6             | 1080        | 110        | 8           | 3          | 6           | 21           |  |
| AOL1448       | Ultra SO-8 | Single         | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 36                 | 28         | 30                 | 15         | 9.5                                               | 14         |      |      |      |      | 2.2             | 770         | 77         | 7.1         | 3.1        | 5           | 18           |  |
| AOL1432       | Ultra SO-8 | Single         | SMPS High Side      | N                      | No        | No             |               | 25                  | 20                   | 44                 | 31         | 30                 | 15         | 8.5                                               | 14         |      |      |      |      | 3               | 1430        | 215        | 13.5        | 7.75       | 6.5         | 22.7         |  |
| AOL1404       | Ultra SO-8 | Single         | Load Switch         | N                      | No        | No             |               | 20                  | 12                   | 45                 | 35         | 60                 | 30         |                                                   | 4          | 5.6  |      |      |      | 1.6             | 3860        | 580        | 36          | 12         | 7           | 70           |  |
| AOL1413       | Ultra SO-8 | Single         | Load Switch         | P                      | Yes       | No             |               | -30                 | 25                   | -38                | -27        | 38                 | 19         | 17                                                |            |      |      |      |      | -3.5            | 1760        | 255        | 11          | 8          | 11.5        | 35           |  |
| TO-220        |            |                |                     |                        |           |                |               |                     |                      |                    |            |                    |            |                                                   |            |      |      |      |      |                 |             |            |             |            |             |              |  |
| AOT210L       | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 105                | 82         | 176                | 88         | 2.9                                               | 3.7        |      |      |      |      | 2.2             | 3520        | 90         | 22          | 7          | 11          | 38           |  |
| AOT424        | TO-220     | Single         | SMPS Low Side       | N                      | No        | No             |               | 30                  | 20                   | 110                | 88         | 100                | 50         | 4                                                 | 5.5        |      |      |      |      | 3               | 3700        | 390        | 30.4        | 19.8       | 12.5        | 40           |  |
| TO-251A       |            |                |                     |                        |           |                |               |                     |                      |                    |            |                    |            |                                                   |            |      |      |      |      |                 |             |            |             |            |             |              |  |
| AOI418        | TO-251A    | Single         | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 36                 | 28         | 50                 | 25         | 8                                                 | 11.5       |      |      |      |      | 2.5             | 1150        | 105        | 9.5         | 5          | 6.5         | 17           |  |
| AOI508        | TO-251A    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 70                 | 55         | 50                 | 25         | 3                                                 | 4.5        |      |      |      |      | 2.2             | 2010        | 124        | 17          | 8          | 7.5         | 37           |  |
| AOI510        | TO-251A    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 70                 | 54         | 60                 | 30         | 2.6                                               | 4          |      |      |      |      | 2.2             | 2719        | 169        | 21          | 7          | 9.7         | 32.5         |  |
| AOI514        | TO-251A    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 46                 | 36         | 50                 | 25         | 5.9                                               | 11.9       |      |      |      |      | 2.6             | 1187        | 60         | 8.8         | 3.6        | 7.3         | 21.8         |  |
| <b>AOI530</b> | <b>NEW</b> | <b>TO-251A</b> | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>70</b>          | <b>55</b>  | <b>83</b>          | <b>41</b>  | <b>2.7</b>                                        | <b>4.2</b> |      |      |      |      | <b>2.2</b>      | <b>3130</b> | <b>225</b> | <b>21.5</b> | <b>9.6</b> | <b>11</b>   | <b>45</b>    |  |
| <b>AOI538</b> | <b>NEW</b> | <b>TO-251A</b> | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>70</b>          | <b>54</b>  | <b>93</b>          | <b>46</b>  | <b>3.1</b>                                        | <b>4.8</b> |      |      |      |      | <b>3.1</b>      | <b>2160</b> | <b>115</b> | <b>14</b>   | <b>6.3</b> | <b>8</b>    | <b>29</b>    |  |
| AOI4102       | TO-251A    | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 19                 | 13         | 21                 | 10         | 37                                                | 64         |      |      |      |      | 3               | 360         | 30         | 3.2         | 2.2        | 4.3         | 12.8         |  |
| AOI403        | TO-251A    | Single         | Load Switch         | P                      | No        | No             |               | -30                 | 25                   | -70                | -55        | 90                 | 45         | 8.5                                               |            |      |      |      |      | -3.5            | 2890        | 470        | 51*         | 16*        | 16          | 45           |  |
| TO-251B       |            |                |                     |                        |           |                |               |                     |                      |                    |            |                    |            |                                                   |            |      |      |      |      |                 |             |            |             |            |             |              |  |
| AOI516        | TO-251B    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 46                 | 36         | 50                 | 25         | 5                                                 | 10         |      |      |      |      | 2.6             | 1333        | 42         | 8.5         | 2.5        | 7.5         | 23.3         |  |
| AOY514        | TO-251B    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 46                 | 36         | 50                 | 25         | 5.9                                               | 11.9       |      |      |      |      | 2.4             | 1187        | 60         | 8.8         | 3.6        | 7.3         | 21.8         |  |
| AOY516        | TO-251B    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 46                 | 36         | 50                 | 25         | 5                                                 | 10         |      |      |      |      | 2.6             | 1333        | 42         | 8.5         | 2.5        | 7.5         | 23.3         |  |
| AOY526        | TO-251B    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 50                 | 39         | 50                 | 25         | 5                                                 | 9          |      |      |      |      | 2.4             | 1300        | 75         | 8.5         | 2.5        | 7.5         | 23.3         |  |
| AOY528        | TO-251B    | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 50                 | 39         | 50                 | 25         | 5.4                                               | 9.5        |      |      |      |      | 2.4             | 1187        | 60         | 8.8         | 3.6        | 7.3         | 21.8         |  |
| TO-252        |            |                |                     |                        |           |                |               |                     |                      |                    |            |                    |            |                                                   |            |      |      |      |      |                 |             |            |             |            |             |              |  |
| AOD210        | TO-252     | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 70                 | 55         | 150                | 75         | 3                                                 | 3.9        |      |      |      |      | 2.2             | 3520        | 90         | 22          | 7          | 11          | 38           |  |
| AOD418        | TO-252     | Single         | SMPS High Side      | N                      | No        | No             |               | 30                  | 20                   | 36                 | 28         | 50                 | 25         | 7.5                                               | 11         |      |      |      |      | 2.5             | 1150        | 105        | 9.5         | 5          | 6.5         | 17           |  |
| AOD480        | TO-252     | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 25                 | 18         | 21                 | 11         | 23                                                | 33         |      |      |      |      | 2.6             | 373         | 41         | 3.5         | 1.6        | 4.3         | 15.8         |  |
| AOD484        | TO-252     | Single         | SMPS                | N                      | Yes       | No             |               | 30                  | 20                   | 25                 | 20         | 50                 | 25         | 15                                                | 23         |      |      |      |      | 2.5             | 938         | 99         | 8.4         | 4.1        | 5           | 19           |  |
| AOD496        | TO-252     | Single         | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 62                 | 44         | 62.5               | 31         | 9.5                                               | 16         |      |      |      |      | 2.5             | 1000        | 340        | 8.5         | 4.8        | 5.6         | 18.5         |  |
| AOD496A       | TO-252     | Single         | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 57                 | 40         | 50                 | 25         | 9                                                 | 14         |      |      |      |      | 2.2             | 770         | 77         | 7.1         | 3.1        | 5           | 18           |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Low Voltage MOSFETs (Continued)

| Part Number   | Package    | Configuration | Popular Application | Type                   | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |           | P <sub>D</sub> (W) |           | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |            |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |           |  |
|---------------|------------|---------------|---------------------|------------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|-----------|--------------------|-----------|---------------------------------------------------|------------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|-----------|--|
|               |            |               |                     |                        |           |                |               |                     |                      | 25°C               | 70°C      | 25°C               | 70°C      | 10V                                               | 4.5V       | 2.5V | 1.8V | 1.5V |                             |                       |                       |                       |                      |                         |                          | 1.2V      |  |
| AOD508        | TO-252     | Single        | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 70                 | 55        | 50                 | 25        | 3                                                 | 4.5        |      |      |      |                             | 2.2                   | 2010                  | 124                   | 17                   | 8                       | 7.5                      | 37        |  |
| AOD510        | TO-252     | Single        | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 70                 | 54        | 60                 | 30        | 2.6                                               | 4          |      |      |      |                             | 2.2                   | 2719                  | 169                   | 21                   | 7                       | 9.7                      | 32.5      |  |
| AOD514        | TO-252     | Single        | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 46                 | 36        | 50                 | 25        | 5.9                                               | 11.9       |      |      |      |                             | 2.6                   | 1187                  | 60                    | 8.8                  | 3.6                     | 7.3                      | 21.8      |  |
| AOD516        | TO-252     | Single        | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 54                 | 42        | 50                 | 25        | 5                                                 | 8          |      |      |      |                             | 2.2                   | 1229                  | 83                    | 24                   | 4                       | 7                        | 24        |  |
| AOD526        | TO-252     | Single        | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 50                 | 39        | 50                 | 25        | 5                                                 | 9          |      |      |      |                             | 2.4                   | 1300                  | 75                    | 8.5                  | 2.5                     | 7.5                      | 23.3      |  |
| AOD528        | TO-252     | Single        | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 50                 | 39        | 50                 | 25        | 5.4                                               | 9.5        |      |      |      |                             | 2.4                   | 1187                  | 60                    | 8.8                  | 3.6                     | 7.3                      | 21.8      |  |
| <b>AOD538</b> | <b>NEW</b> | <b>TO-252</b> | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>30</b>           | <b>20</b>            | <b>70</b>          | <b>54</b> | <b>93</b>          | <b>46</b> | <b>3.1</b>                                        | <b>4.8</b> |      |      |      |                             | <b>3.1</b>            | <b>2160</b>           | <b>115</b>            | <b>14</b>            | <b>6.3</b>              | <b>8</b>                 | <b>29</b> |  |
| AOD4102       | TO-252     | Single        | SMPS                | N                      | No        | No             |               | 30                  | 20                   | 12                 | 12        | 21                 | 10        | 37                                                | 64         |      |      |      |                             | 3                     | 360                   | 30                    | 3.2                  | 2.2                     | 4.3                      | 12.8      |  |
| AOD4132       | TO-252     | Single        | SMPS Low Side       | N                      | No        | No             |               | 30                  | 20                   | 85                 | 63        | 100                | 50        | 4                                                 | 6          |      |      |      |                             | 3                     | 3700                  | 390                   | 33                   | 17.6                    | 12                       | 40        |  |
| AOD456        | TO-252     | Single        | SMPS Low Side       | N                      | No        | No             |               | 25                  | 20                   | 50                 | 50        | 50                 | 25        | 6                                                 | 10         |      |      |      |                             | 3                     | 1850                  | 275                   | 15.7                 | 8.2                     | 7.5                      | 30        |  |
| AOD502        | TO-252     | Single        | General Purpose     | N                      | No        | No             |               | 25                  | 20                   | 46                 | 36        | 50                 | 25        | 8                                                 | 11.9       |      |      |      |                             | 2.4                   | 1187                  | 60                    | 8.8                  | 3.6                     | 7.3                      | 21.8      |  |
| AOD504        | TO-252     | Single        | General Purpose     | N                      | No        | No             |               | 25                  | 20                   | 46                 | 36        | 50                 | 25        | 5                                                 | 10         |      |      |      |                             | 2.4                   | 1333                  | 42                    | 8.5                  | 2.5                     | 7.5                      | 23.3      |  |
| AOD4136       | TO-252     | Single        | Load Switch         | N                      | No        | No             |               | 25                  | 20                   | 25                 | 25        | 30                 | 15        | 11                                                | 19         |      |      |      |                             | 2.5                   | 734                   | 97                    | 6.2                  | 4                       | 6                        | 19.6      |  |
| AOD424        | TO-252     | Single        | General Purpose     | N                      | No        | No             |               | 20                  | 12                   | 45                 | 35        | 100                | 50        | 4.4                                               | 5.7        |      |      |      |                             | 1.6                   | 3860                  | 580                   | 36                   | 12                      | 7                        | 70        |  |
| AOD476        | TO-252     | Single        | SMPS                | N                      | No        | No             |               | 20                  | 16                   | 25                 | 20        | 33.3               | 16.7      | 21                                                | 28         | 79   |      |      |                             | 2                     | 900                   | 105                   | 7.2                  | 2.8                     | 4.5                      | 18.7      |  |
| AOD4120       | TO-252     | Single        | SMPS                | N                      | No        | No             |               | 20                  | 16                   | 25                 | 23        | 33.3               | 16.7      | 18                                                | 25         | 75   |      |      |                             | 2                     | 900                   | 105                   | 7.2                  | 2.8                     | 4.5                      | 18.7      |  |
| AOD403        | TO-252     | Single        | Load Switch         | P                      | No        | No             |               | -30                 | 25                   | -70                | -55       | 90                 | 45        | 8                                                 |            |      |      |      |                             | -3.5                  | 2890                  | 470                   | 51*                  | 16*                     | 16                       | 45        |  |
| AOD417        | TO-252     | Single        | Inverter            | P                      | No        | No             |               | -30                 | 20                   | -25                | -20       | 50                 | 25        | 34                                                | 55         |      |      |      |                             | -3                    | 920                   | 90                    | 8.2                  | 3.6                     | 8                        | 22        |  |
| AOD425        | TO-252     | Single        | General Purpose     | P                      | Yes       | No             |               | -30                 | 25                   | -50                | -30       | 71                 | 36        | 17                                                |            |      |      |      |                             | -3.5                  | 1760                  | 255                   | 11                   | 8                       | 11.5                     | 35        |  |
| AOD607        | TO-252     | Complementary | Inverter            | N                      | No        | No             |               | 30                  | 20                   | 12                 | 9.4       | 25                 | 12.5      | 25                                                | 34         |      |      |      |                             | 2.5                   | 1040                  | 110                   | 9.8                  | 3.5                     | 4.5                      | 17.4      |  |
| AOD607        | TO-252     | Complementary | Inverter            | P                      | No        | No             |               | -30                 | 20                   | -12                | -9.4      | 25                 | 12.5      | 37                                                | 62         |      |      |      |                             | -2.4                  | 920                   | 122                   | 9.7                  | 5.4                     | 9                        | 20        |  |
| TO-263        |            |               |                     |                        |           |                |               |                     |                      |                    |           |                    |           |                                                   |            |      |      |      |                             |                       |                       |                       |                      |                         |                          |           |  |
| AOB210L       | TO-263     | Single        | General Purpose     | N                      | No        | No             |               | 30                  | 20                   | 105                | 72        | 176                | 88        | 2.6                                               | 3.5        |      |      |      |                             | 2.2                   | 3520                  | 90                    | 22                   | 7                       | 11                       | 38        |  |
| AOB409L       | TO-263     | Single        | General Purpose     | P                      | No        | No             |               | -60                 | 20                   | -31.5              | -22       | 83.3               | 41.6      | 38                                                | 50         |      |      |      |                             | -2.4                  | 2461                  | 120                   | 19.7                 | 8.9                     | 12                       | 38        |  |
| AOB411L       | TO-263     | Single        | General Purpose     | P                      | No        | No             |               | -60                 | 20                   | -78                | -55       | 187                | 93        | 16.5                                              | 22         |      |      |      |                             | -2.5                  | 5330                  | 234                   | 40                   | 18                      | 17.5                     | 83.5      |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs

| Part Number | Package     | Configuration | Popular Application | Type            | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |      | P <sub>D</sub> (W) |      | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |       |      |      |      | VGS(th) (max V) | Ciss (pF) | Crss (pF) | Qg* (nC) | Qgd (nC) | Td(on) (ns) | Td(off) (ns) |      |  |
|-------------|-------------|---------------|---------------------|-----------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------|--------------------|------|---------------------------------------------------|-------|------|------|------|-----------------|-----------|-----------|----------|----------|-------------|--------------|------|--|
|             |             |               |                     |                 |           |                |               |                     |                      | 25°C               | 70°C | 25°C               | 70°C | 10V                                               | 4.5V  | 2.5V | 1.8V | 1.5V |                 |           |           |          |          |             |              | 1.2V |  |
| SC-89       |             |               |                     |                 |           |                |               |                     |                      |                    |      |                    |      |                                                   |       |      |      |      |                 |           |           |          |          |             |              |      |  |
| AO5800E     | SC-89-6     | Dual          | Load Switch         | N               | Yes       | No             |               | 60                  | 20                   | 0.4                | 0.3  | 0.4                | 0.24 | 1600                                              | 1900  |      |      |      |                 | 2.5       | 41        | 6        |          |             | 39.2         | 261  |  |
| SOT-223     |             |               |                     |                 |           |                |               |                     |                      |                    |      |                    |      |                                                   |       |      |      |      |                 |           |           |          |          |             |              |      |  |
| AOH3106     | SOT-223     | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 2                  | 1.5  | 3.1                | 2    | 360                                               | 385   |      |      |      |                 | 2         | 185       | 8        | 2.5      | 1.4         | 3.5          | 16   |  |
| AOH3110     | SOT-223     | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 1                  | 0.8  | 3.1                | 2    | 700                                               | 820   |      |      |      |                 | 2.9       | 100       | 5        | 1.5      | 0.8         | 5            | 12   |  |
| SOT-23      |             |               |                     |                 |           |                |               |                     |                      |                    |      |                    |      |                                                   |       |      |      |      |                 |           |           |          |          |             |              |      |  |
| AO3442      | SOT-23-3    | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 1                  | 0.8  | 1.4                | 0.9  | 630                                               | 720   |      |      |      |                 | 2.9       | 100       | 5        | 1.5      | 0.8         | 5            | 12   |  |
| AO3460      | SOT-23-3    | Single        | Load Switch         | N               | Yes       | No             |               | 60                  | 20                   | 0.5                | 1.6  | 1.4                | 0.9  | 1700                                              | 2000  |      |      |      |                 | 1.7       | 22        | 2        | 0.4      | 0.2         | 5.3          | 19.7 |  |
| AO3422      | SOT-23-3    | Single        | General Purpose     | N               | No        | No             |               | 55                  | 12                   | 2.1                | 1.7  | 1.25               | 0.8  |                                                   | 160   | 200  |      |      |                 | 2         | 214       | 12.6     | 2.6      | 0.8         | 2.3          | 16.5 |  |
| TSOP-6      |             |               |                     |                 |           |                |               |                     |                      |                    |      |                    |      |                                                   |       |      |      |      |                 |           |           |          |          |             |              |      |  |
| AO6420      | TSOP-6      | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 4.2                | 3.4  | 2                  | 1.28 | 60                                                | 75    |      |      |      |                 | 3         | 450       | 25       | 4.3      | 2.2         | 5.1          | 15.9 |  |
| DFN 2x2     |             |               |                     |                 |           |                |               |                     |                      |                    |      |                    |      |                                                   |       |      |      |      |                 |           |           |          |          |             |              |      |  |
| AON2290     | DFN 2x2B    | Single        | Load Switch         | N               | No        | No             |               | 100                 | 20                   | 4.5                | 3.5  | 2.8                | 1.8  | 72                                                | 97    |      |      |      |                 | 2.8       | 415       | 3        | 3        | 1.5         | 4            | 15   |  |
| AON2260     | DFN 2x2B    | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 6                  | 4.7  | 2.8                | 1.8  | 44                                                | 53    |      |      |      |                 | 2.5       | 426       | 5        | 2.6      | 0.8         | 3            | 15   |  |
| AON2240     | DFN 2x2B    | Single        | General Purpose     | N               | No        | No             |               | 40                  | 20                   | 8                  | 6    | 2.8                | 1.8  | 21                                                | 29    |      |      |      |                 | 2.4       | 415       | 11       | 3        | 1.1         | 4            | 15   |  |
| DFN 3x3     |             |               |                     |                 |           |                |               |                     |                      |                    |      |                    |      |                                                   |       |      |      |      |                 |           |           |          |          |             |              |      |  |
| AON7460     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 300                 | 30                   | 4                  | 2.5  | 33                 | 13   | 830                                               |       |      |      |      |                 | 4.5       | 310       | 2.9      | 6.8      | 2*          | 17           | 29   |  |
| AON7462     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 300                 | 30                   | 2.5                | 1.6  | 25                 | 10   | 1500                                              |       |      |      |      |                 | 4.5       | 197       | 2        | 4.6*     | 1.5*        | 17           | 26   |  |
| AON7458     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 250                 | 30                   | 5                  | 3.2  | 33                 | 13   | 560                                               |       |      |      |      |                 | 4.3       | 306       | 3.2      | 6        | 1.5         | 14           | 23   |  |
| AON7296     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 12.5               | 8    | 20.8               | 8.3  | 66                                                | 90    |      |      |      |                 | 2.8       | 415       | 3        | 3        | 1.5         | 4            | 15   |  |
| AON7450     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 100                 | 25                   | 21                 | 13   | 43                 | 17   | 48                                                | 57*   |      |      |      |                 | 4.1       | 910       | 35       | 16*      | 4.7*        | 18           | 35   |  |
| AON7452     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 100                 | 25                   | 5.5                | 3.5  | 17                 | 7    | 310                                               | 370*  |      |      |      |                 | 4.7       | 155       | 9        | 3*       | 0.9*        | 4            | 8.5  |  |
| AON7448     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 80                  | 25                   | 25                 | 15   | 36                 | 15   | 30                                                | 37*   |      |      |      |                 | 4.1       | 900       | 40       | 14.5*    | 4.6*        | 16           | 36   |  |
| AON7474A    | NEW         | DFN 3x3       | Single              | General Purpose | N         | No             | No            | 75                  | 16                   | 7.5                | 4.5  | 15.5               | 6    | 130                                               | 155   |      |      |      |                 | 1.6       | 280       | 13       | 3        | 1.5         | 5            | 16   |  |
| AON7246     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 34.5               | 22   | 34.7               | 13.9 | 15                                                | 19    |      |      |      |                 | 2.5       | 1340      | 10       | 9        | 2.6         | 6            | 22   |  |
| AON7444     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 33                 | 21   | 42                 | 17   | 22                                                | 26    |      |      |      |                 | 2.6       | 1680      | 60       | 13       | 3.7         | 6            | 24   |  |
| AON7446     | DFN 3x3     | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 8                  | 5    | 16.7               | 7    | 145                                               | 160*  |      |      |      |                 | 3.3       | 237       | 9        | 4.4*     | 1.1*        | 4.5          | 15   |  |
| AON7240     | DFN 3x3     | Single        | SMPS                | N               | No        | No             |               | 40                  | 20                   | 40                 | 31   | 36.7               | 14   | 5.1                                               | 7     |      |      |      |                 | 2.4       | 1830      | 43       | 12.8     | 6           | 7.2          | 23   |  |
| DFN 3.3x3.3 |             |               |                     |                 |           |                |               |                     |                      |                    |      |                    |      |                                                   |       |      |      |      |                 |           |           |          |          |             |              |      |  |
| AON7254     | DFN 3.3x3.3 | Single        | General Purpose     | N               | No        | No             |               | 150                 | 20                   | 17                 | 11   | 39                 | 15.6 | 54                                                | 66    |      |      |      |                 | 2.7       | 675       | 4        | 5.5      | 2.5         | 6            | 20   |  |
| AON7290     | DFN 3.3x3.3 | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 50                 | 35   | 83                 | 33   | 12.6                                              |       |      |      |      |                 | 3.4       | 2075      | 9.5      | 9        | 4           | 10           | 22.5 |  |
| AON7292     | DFN 3.3x3.3 | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 23                 | 15   | 28                 | 11   | 24                                                | 32    |      |      |      |                 | 2.6       | 1170      | 8        | 8        | 3.5         | 5            | 21   |  |
| AON7280     | DFN 3.3x3.3 | Single        | General Purpose     | N               | No        | No             |               | 80                  | 20                   | 50                 | 39   | 83                 | 33   | 8.5                                               | 12*   |      |      |      |                 | 3.4       | 1871      | 14       | 26.5*    | 4*          | 11.5         | 21.5 |  |
| AON7244     | DFN 3.3x3.3 | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 50                 | 39   | 83                 | 33   | 8.5                                               | 12    |      |      |      |                 | 2.5       | 2030      | 8.5      | 11.5     | 2.5         | 7.5          | 24.5 |  |
| AON7242     | DFN 3.3x3.3 | Single        | SMPS                | N               | No        | No             |               | 40                  | 20                   | 50                 | 39   | 83                 | 33   | 3.9                                               | 5.8   |      |      |      |                 | 2.3       | 1970      | 41       | 11.9     | 2.2         | 7            | 23   |  |
| DFN 5x6     |             |               |                     |                 |           |                |               |                     |                      |                    |      |                    |      |                                                   |       |      |      |      |                 |           |           |          |          |             |              |      |  |
| AON6458     | DFN 5x6     | Single        | General Purpose     | N               | No        | No             |               | 250                 | 30                   | 14                 | 8.8  | 83                 | 33   | 170                                               |       |      |      |      |                 | 4.5       | 1028      | 11       | 22*      | 8           | 28           | 65   |  |
| AON6250     | DFN 5x6     | Single        | General Purpose     | N               | No        | No             |               | 150                 | 20                   | 52                 | 32   | 104                | 41.5 | 16.5                                              | 19*   |      |      |      |                 | 3.4       | 2388      | 9.5      | 30.5*    | 4.5*        | 11           | 23   |  |
| AON6454A    | DFN 5x6     | Single        | General Purpose     | N               | No        | No             |               | 150                 | 20                   | 31                 | 20   | 83                 | 33   | 38                                                | 35*   |      |      |      |                 | 4.6       | 1710      | 50       | 7.8      | 13.5        | 12           | 20   |  |
| AON6290     | DFN 5x6     | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 85                 | 67   | 208                | 83   | 4.6                                               |       |      |      |      |                 | 3.4       | 4600      | 27       | 28.5     | 10          | 14.5         | 37   |  |
| AON6292     | DFN 5x6     | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 85                 | 67   | 156                | 62.5 | 6                                                 |       |      |      |      |                 | 3.4       | 3830      | 16.5     | 15.5     | 7           | 13           | 26   |  |
| AON6294     | DFN 5x6     | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 52                 | 33   | 57                 | 23   | 10                                                | 14*   |      |      |      |                 | 3.5       | 2265      | 10       | 28*      | 4*          | 10.5         | 20   |  |
| AON6298     | DFN 5x6     | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 46                 | 30   | 78                 | 31   | 16.5                                              | 21*   |      |      |      |                 | 3.4       | 1307      | 8        | 16*      | 3*          | 7.5          | 16.5 |  |
| AON6450     | DFN 5x6     | Single        | SMPS                | N               | No        | No             |               | 100                 | 25                   | 52                 | 33   | 83                 | 33   | 14.5                                              | 17.5* |      |      |      |                 | 4         | 2570      | 80       | 11.5*    | 13.5        | 15           | 28.5 |  |
| AON6452     | DFN 5x6     | Single        | SMPS                | N               | No        | No             |               | 100                 | 25                   | 26                 | 17   | 35                 | 14   | 25                                                | 31*   |      |      |      |                 | 4         | 1770      | 55       | 28*      | 10          | 12           | 17   |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

| Part Number    | Package    | Configuration  | Popular Application | Type                   | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |             | P <sub>D</sub> (W) |           | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |             |      |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |  |
|----------------|------------|----------------|---------------------|------------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|-------------|--------------------|-----------|---------------------------------------------------|-------------|------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|--|
|                |            |                |                     |                        |           |                |               |                     |                      | 25°C               | 70°C        | 25°C               | 70°C      | 10V                                               | 4.5V        | 2.5V | 1.8V | 1.5V | 1.2V |                             |                       |                       |                       |                      |                         |                          |  |
| AON6482        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 20                   | 28                 | 20          | 75                 | 37        | 37                                                | 42          |      |      |      |      | 2.7                         | 1630                  | 50                    | 18                    | 9                    | 7                       | 29                       |  |
| AON6484        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 20                   | 12                 | 7.5         | 25                 | 10        | 79                                                | 90          |      |      |      |      | 2.7                         | 778                   | 24                    | 9.6                   | 5                    | 6                       | 21                       |  |
| AON6278        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 20                   | 85                 | 66          | 104                | 42        | 3.3                                               | 4.6         |      |      |      |      | 3.3                         | 4646                  | 31                    | 61.5*                 | 9.5*                 | 13                      | 36                       |  |
| AON6280        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 20                   | 85                 | 65          | 83                 | 33        | 4.1                                               | 5           |      |      |      |      | 3.2                         | 3930                  | 66                    | 58*                   | 14*                  | 13                      | 32                       |  |
| AON6282        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 20                   | 85                 | 56          | 83                 | 33        | 5.6                                               | 8*          |      |      |      |      | 3.5                         | 2848                  | 22.5                  | 36.5*                 | 6*                   | 11                      | 25                       |  |
| AON6284        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 20                   | 78                 | 49          | 78                 | 31        | 7.1                                               | 10*         |      |      |      |      | 3.3                         | 2162                  | 16                    | 28*                   | 4.5                  | 9                       | 23                       |  |
| AON6448        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 25                   | 65                 | 41          | 83                 | 33        | 9.6                                               | 12*         |      |      |      |      | 3.7                         | 2600                  | 120                   | 44*                   | 14                   | 18                      | 24.5                     |  |
| AON6270        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 75                  | 20                   | 85                 | 67          | 83                 | 33        | 3.9                                               |             |      |      |      |      | 3.2                         | 4100                  | 58                    | 60*                   | 14*                  | 14                      | 34                       |  |
| AON6242        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 85                 | 66          | 83                 | 33        | 3.6                                               | 4.5         |      |      |      |      | 2.5                         | 5305                  | 22                    | 23                    | 3                    | 13                      | 47                       |  |
| AON6244        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 85                 | 59          | 83                 | 33        | 4.7                                               | 6.2         |      |      |      |      | 2.5                         | 3838                  | 14.5                  | 21                    | 3                    | 11                      | 34                       |  |
| AON6246        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 80                 | 51          | 83                 | 33        | 6.4                                               | 8           |      |      |      |      | 2.5                         | 2850                  | 15.5                  | 18                    | 4                    | 8                       | 29                       |  |
| AON6248        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 53                 | 34          | 69.5               | 27.5      | 11.5                                              | 14.7        |      |      |      |      | 2.5                         | 1543                  | 9                     | 8.5                   | 1.8                  | 6                       | 25                       |  |
| AON6260        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 85                 | 67          | 104                | 41.5      | 2.4                                               | 3.5         |      |      |      |      | 2.5                         | 5578                  | 75                    | 37                    | 12                   | 13.5                    | 50                       |  |
| <b>AON6266</b> | <b>NEW</b> | <b>DFN 5x6</b> | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>60</b>           | <b>20</b>            | <b>30</b>          | <b>22.5</b> | <b>38</b>          | <b>15</b> | <b>15</b>                                         | <b>19</b>   |      |      |      |      | <b>2.5</b>                  | <b>1340</b>           | <b>10</b>             | <b>9</b>              | <b>2.6</b>           | <b>6</b>                | <b>22</b>                |  |
| AON6444        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 81                 | 51          | 83                 | 33        | 6.5                                               | 11.5        |      |      |      |      | 2.5                         | 4800                  | 190                   | 40                    | 14                   | 13.5                    | 51                       |  |
| AON6230        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 85                 | 66          | 104                | 42        | 1.44                                              | 2.1         |      |      |      |      | 2.3                         | 6050                  | 105                   | 35                    | 13                   | 12                      | 59                       |  |
| AON6232        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 85                 | 67          | 83                 | 33        | 2.5                                               | 3.6         |      |      |      |      | 2.5                         | 3165                  | 52.5                  | 18.2                  | 2.8                  | 8.7                     | 33.5                     |  |
| AON6234        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 85                 | 67          | 83                 | 33        | 3.4                                               | 5           |      |      |      |      | 2.4                         | 2335                  | 45                    | 15                    | 4.5                  | 8                       | 26                       |  |
| AON6236        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 30                 | 24          | 39                 | 15.5      | 7                                                 | 10.5        |      |      |      |      | 2.4                         | 1225                  | 26.5                  | 8.2                   | 2.5                  | 6                       | 23.5                     |  |
| AON6240        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 85                 | 67          | 83                 | 33        | 1.6                                               | 2.4         |      |      |      |      | 2.4                         | 5458                  | 103                   | 31                    | 10.8                 | 14.8                    | 61.3                     |  |
| AON6440        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 85                 | 67          | 83                 | 33        | 3.4                                               | 5.5         |      |      |      |      | 2.2                         | 5000                  | 300                   | 40                    | 15                   | 13.7                    | 54                       |  |
| AON6442        | DFN 5x6    | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 65                 | 42          | 35.7               | 14        | 4.8                                               | 7           |      |      |      |      | 2.4                         | 1830                  | 43                    | 12.8                  | 6                    | 7.2                     | 23                       |  |
| AON6850        | DFN 5x6    | Dual           | General Purpose     | N                      | No        | No             |               | 100                 | 25                   | 28                 | 18          | 56                 | 22        | 35                                                | 42*         |      |      |      |      | 4                           | 1530                  | 66                    | 24*                   | 8*                   | 11                      | 16                       |  |
| AON6884        | DFN 5x6    | Dual           | Inverter            | N                      | No        | No             |               | 40                  | 20                   | 34                 | 21          | 21                 | 8         | 11.3                                              | 13.8        |      |      |      |      | 2.7                         | 1500                  | 135                   | 13.6                  | 6.4                  | 6.4                     | 29.6                     |  |
| <b>SO-8</b>    |            |                |                     |                        |           |                |               |                     |                      |                    |             |                    |           |                                                   |             |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AO4286         | SO-8       | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 20                   | 4                  | 3           | 2.5                | 1.6       | 68                                                | 92          |      |      |      |      | 2.9                         | 390                   | 3                     | 2.8                   | 1.2                  | 6                       | 18                       |  |
| <b>AO4292</b>  | <b>NEW</b> | <b>SO-8</b>    | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>100</b>          | <b>20</b>            | <b>8</b>           | <b>6.2</b>  | <b>3.1</b>         | <b>2</b>  | <b>23</b>                                         | <b>33</b>   |      |      |      |      | <b>2.7</b>                  | <b>1190</b>           | <b>7</b>              | <b>7</b>              | <b>2.5</b>           | <b>7</b>                | <b>20</b>                |  |
| AO4452         | SO-8       | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 25                   | 8                  | 6.5         | 3.1                | 2         | 25                                                | 31*         |      |      |      |      | 4                           | 1770                  | 55                    | 28*                   | 10                   | 12                      | 17                       |  |
| AO4454         | SO-8       | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 25                   | 6.5                | 5.3         | 3.1                | 2         | 36                                                | 43*         |      |      |      |      | 4                           | 1180                  | 36                    | 19*                   | 6.3                  | 10                      | 15                       |  |
| AO4482         | SO-8       | Single         | Load Switch         | N                      | No        | No             |               | 100                 | 20                   | 6                  | 5           | 3.1                | 2         | 37                                                | 42          |      |      |      |      | 2.7                         | 1630                  | 50                    | 18                    | 9                    | 7                       | 28                       |  |
| AO4486         | SO-8       | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 20                   | 4.2                | 3.4         | 3.1                | 2         | 79                                                | 90          |      |      |      |      | 2.7                         | 778                   | 24                    | 8.1                   | 4.1                  | 6                       | 21                       |  |
| AO4444L        | SO-8       | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 25                   | 11                 | 9           | 3.1                | 2         | 12                                                | 14.5*       |      |      |      |      | 3.8                         | 2386                  | 100                   | 38*                   | 10                   | 13                      | 23                       |  |
| AO4448         | SO-8       | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 25                   | 10                 | 8           | 3.1                | 2         | 16                                                | 20*         |      |      |      |      | 4.2                         | 1670                  | 72                    | 28*                   | 8                    | 12                      | 20                       |  |
| AO4442         | SO-8       | Single         | Display             | N                      | No        | No             |               | 75                  | 25                   | 3.1                | 2.5         | 3.1                | 2         | 130                                               | 165         |      |      |      |      | 3                           | 303                   | 17                    | 2.46                  | 1.34                 | 4.5                     | 15.6                     |  |
| AO4260         | SO-8       | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 18                 | 14          | 3.1                | 2         | 5.2                                               | 6.3         |      |      |      |      | 2.3                         | 4940                  | 32                    | 31                    | 8.5                  | 8.5                     | 50                       |  |
| <b>AO4264</b>  | <b>NEW</b> | <b>SO-8</b>    | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>60</b>           | <b>20</b>            | <b>12</b>          | <b>9</b>    | <b>3.1</b>         | <b>2</b>  | <b>11</b>                                         | <b>13.5</b> |      |      |      |      | <b>2.5</b>                  | <b>2007</b>           | <b>12.5</b>           | <b>11</b>             | <b>2.5</b>           | <b>8.5</b>              | <b>27</b>                |  |
| AO4438         | SO-8       | Single         | Display             | N                      | No        | No             |               | 60                  | 20                   | 8.2                | 6.6         | 3.1                | 2         | 22                                                | 27          |      |      |      |      | 3                           | 1920                  | 116                   | 24.2                  | 14.4                 | 8.2                     | 29.7                     |  |
| AO4440         | SO-8       | Single         | Display             | N                      | No        | No             |               | 60                  | 20                   | 5                  | 4           | 2.5                | 1.6       | 55                                                | 75          |      |      |      |      | 2.5                         | 450                   | 25                    | 4.3                   | 2.2                  | 5.1                     | 15.9                     |  |
| AO4240         | SO-8       | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 24                 | 19          | 3.1                | 2         | 3.3                                               | 4.3         |      |      |      |      | 2.3                         | 4245                  | 69                    | 28                    | 8                    | 9                       | 42                       |  |
| AO4450         | SO-8       | Single         | Load Switch         | N                      | No        | No             |               | 40                  | 20                   | 7                  | 5.5         | 3.1                | 2         | 30                                                | 38          |      |      |      |      | 3                           | 516                   | 43                    | 4.3                   | 1.4                  | 6.4                     | 16.2                     |  |
| AO4480         | SO-8       | Single         | Display             | N                      | Yes       | No             |               | 40                  | 20                   | 14                 | 11          | 3.1                | 2         | 11.5                                              | 15.5        |      |      |      |      | 3                           | 1600                  | 100                   | 10.5                  | 4.8                  | 3.5                     | 13.2                     |  |
| AO4484         | SO-8       | Single         | Inverter            | N                      | No        | No             |               | 40                  | 20                   | 10                 | 8           | 1.7                | 1.1       | 10                                                | 12.5        |      |      |      |      | 3                           | 1500                  | 135                   | 13.6                  | 6.4                  | 6.4                     | 29.6                     |  |
| AO4443         | SO-8       | Single         | Display             | P                      | No        | No             |               | -40                 | 20                   | -6                 | -5          | 3.1                | 2         | 42                                                | 63          |      |      |      |      | -2.6                        | 940                   | 72                    | 8.4                   | 4.3                  | 10.3                    | 39                       |  |
| AO4485         | SO-8       | Single         | Inverter            | P                      | No        | No             |               | -40                 | 20                   | -10                | -8          | 1.7                | 1.1       | 15                                                | 20          |      |      |      |      | -2.5                        | 2500                  | 180                   | 18.6                  | 8.6                  | 9.4                     | 55                       |  |
| AO4421         | SO-8       | Single         | General Purpose     | P                      | No        | No             |               | -60                 | 20                   | -6.2               | -5          | 3.1                | 2         | 40                                                | 50          |      |      |      |      | -3                          | 2417                  | 120                   | 22.7                  | 9.2                  | 9.8                     | 44                       |  |
| AO4441         | SO-8       | Single         | Display             | P                      | No        | No             |               | -60                 | 20                   | -4                 | -3.1        | 3.1                | 2         | 100                                               | 130         |      |      |      |      | -3                          | 930                   | 35                    | 8                     | 3.2                  | 8                       | 31.5                     |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

| Part Number | Package    | Configuration | Popular Application | Type | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |      | P <sub>D</sub> (W) |       | R <sub>DS(on)</sub> (mΩ max) at V <sub>GS</sub> = |       |      |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |  |
|-------------|------------|---------------|---------------------|------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------|--------------------|-------|---------------------------------------------------|-------|------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|--|
|             |            |               |                     |      |           |                |               |                     |                      | 25°C               | 70°C | 25°C               | 70°C  | 10V                                               | 4.5V  | 2.5V | 1.8V | 1.5V | 1.2V |                             |                       |                       |                       |                      |                         |                          |  |
| AO4886      | SO-8       | Dual          | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 3.3                | 2.7  | 2                  | 1.28  | 80                                                | 91    |      |      |      |      | 2.7                         | 778                   | 24                    | 8.1                   | 4.1                  | 6                       | 21                       |  |
| AO4892      | SO-8       | Dual          | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 4                  | 3    | 2                  | 1.3   | 68                                                | 94    |      |      |      |      | 2.8                         | 415                   | 3                     | 3                     | 1.5                  | 4                       | 15                       |  |
| AO4830      | SO-8       | Dual          | Load Switch         | N    | No        | No             |               | 80                  | 30                   | 3.5                | 2.9  | 2                  | 1.3   | 75                                                |       |      |      |      | 5    | 640                         | 20                    | 5.5                   | 1.2                   | 7.2                  | 17                      |                          |  |
| AO4850      | SO-8       | Dual          | Inverter            | N    | No        | No             |               | 75                  | 25                   | 3.1                | 2.4  | 2                  | 1.3   | 130                                               | 165   |      |      |      | 3    | 290                         | 24                    | 5.14*                 | 1.18                  | 4                    | 14.4                    |                          |  |
| AO4826      | SO-8       | Dual          | General Purpose     | N    | No        | No             |               | 60                  | 20                   | 6.3                | 5    | 2                  | 1.28  | 25                                                | 30    |      |      |      | 3    | 1920                        | 116                   | 24.2                  | 14.4                  | 7.6                  | 28.9                    |                          |  |
| AO4828      | SO-8       | Dual          | General Purpose     | N    | No        | No             |               | 60                  | 20                   | 4.5                | 3.6  | 2                  | 1.28  | 56                                                | 77    |      |      |      | 3    | 450                         | 25                    | 4.3                   | 2.2                   | 4.7                  | 15.7                    |                          |  |
| AO4852      | SO-8       | Dual          | Inverter            | N    | No        | No             |               | 60                  | 20                   | 3                  | 2.4  | 1.4                | 0.9   | 90                                                | 105   |      |      |      | 2.6  | 372                         | 17                    | 3.6                   | 2                     | 4.1                  | 15                      |                          |  |
| AO4840      | SO-8       | Dual          | General Purpose     | N    | No        | No             |               | 40                  | 20                   | 6                  | 5    | 2                  | 1.3   | 30                                                | 38    |      |      |      | 3    | 516                         | 43                    | 4.3                   | 1.4                   | 6.2                  | 16.2                    |                          |  |
| AO4882      | SO-8       | Dual          | Inverter            | N    | No        | No             |               | 40                  | 20                   | 8                  | 6    | 2                  | 1.3   | 19                                                | 27    |      |      |      | 2.4  | 415                         | 11                    | 3                     | 1.1                   | 4                    | 15                      |                          |  |
| AO4884      | SO-8       | Dual          | Inverter            | N    | No        | No             |               | 40                  | 20                   | 10                 | 8    | 2                  | 1.3   | 13                                                | 16    |      |      |      | 2.7  | 1500                        | 135                   | 13.6                  | 6.4                   | 6.4                  | 29.6                    |                          |  |
| AO4611      | SO-8       | Complementary | Inverter            | N    | No        | No             |               | 60                  | 20                   | 6.3                | 5    | 2                  | 1.28  | 25                                                | 30    |      |      |      | 3    | 1920                        | 116                   | 24.2                  | 14.4                  | 7.6                  | 28.9                    |                          |  |
| AO4611      | SO-8       | Complementary | Inverter            | P    | No        | No             |               | -60                 | 20                   | -4.9               | -3.9 | 2                  | 1.28  | 42                                                | 52    |      |      |      | -3   | 2417                        | 120                   | 22.8                  | 9.6                   | 9.8                  | 44                      |                          |  |
| AO4612      | SO-8       | Complementary | Inverter            | N    | No        | No             |               | 60                  | 20                   | 4.5                | 3.6  | 2                  | 1.28  | 56                                                | 77    |      |      |      | 3    | 450                         | 25                    | 4.3                   | 2.2                   | 4.7                  | 15.7                    |                          |  |
| AO4612      | SO-8       | Complementary | Inverter            | P    | No        | No             |               | -60                 | 20                   | -3.2               | -2.6 | 2                  | 1.28  | 105                                               | 135   |      |      |      | -3   | 930                         | 35                    | 8                     | 3.2                   | 8                    | 31.5                    |                          |  |
| AO4614B     | SO-8       | Complementary | Inverter            | N    | No        | No             |               | 40                  | 20                   | 6                  | 5    | 2                  | 1.28  | 30                                                | 38    |      |      |      | 3    | 516                         | 43                    | 4.3                   | 1.4                   | 6.4                  | 16.2                    |                          |  |
| AO4614B     | SO-8       | Complementary | Inverter            | P    | No        | No             |               | -40                 | 20                   | -5                 | -4   | 2                  | 1.28  | 45                                                | 63    |      |      |      | -3   | 940                         | 72                    | 7.9                   | 3.2                   | 6.2                  | 44.8                    |                          |  |
| AO4618      | SO-8       | Complementary | Inverter            | N    | Yes       | No             |               | 40                  | 20                   | 8                  | 6    | 2                  | 1.3   | 19                                                | 27    |      |      |      | 3    | 422                         | 11                    | 3                     | 0.8                   | 4.5                  | 16                      |                          |  |
| AO4618      | SO-8       | Complementary | Inverter            | P    | Yes       | No             |               | -40                 | 20                   | -7                 | -5.5 | 2                  | 1.3   | 23                                                | 30    |      |      |      | -3   | 1870                        | 155                   | 8                     | 6.2                   | 10                   | 38                      |                          |  |
| Ultra SO-8  |            |               |                     |      |           |                |               |                     |                      |                    |      |                    |       |                                                   |       |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOL1482     | Ultra SO-8 | Single        | Load Switch         | N    | No        | No             |               | 100                 | 20                   | 28                 | 20   | 75                 | 37    | 37                                                | 42    |      |      |      |      | 2.7                         | 1630                  | 50                    | 18                    | 9                    | 7                       | 29                       |  |
| AOL1240     | Ultra SO-8 | Single        | General Purpose     | N    | No        | No             |               | 40                  | 20                   | 69                 | 54   | 125                | 62.5  | 3                                                 | 4.4   |      |      |      |      | 2.3                         | 3165                  | 45.5                  | 18                    | 3.5                  | 9                       | 32                       |  |
| AOL1242     | Ultra SO-8 | Single        | General Purpose     | N    | No        | No             |               | 40                  | 20                   | 69                 | 54   | 68                 | 34    | 5.2                                               | 7.9   |      |      |      |      | 2.3                         | 1350                  | 26                    | 8                     | 2.3                  | 6                       | 23                       |  |
| AOL1454     | Ultra SO-8 | Single        | Inverter            | N    | Yes       | No             |               | 40                  | 20                   | 50                 | 48   | 60                 | 30    | 9                                                 | 13    |      |      |      |      | 3                           | 1600                  | 100                   | 10.5                  | 4.8                  | 6.5                     | 33                       |  |
| TO-220      |            |               |                     |      |           |                |               |                     |                      |                    |      |                    |       |                                                   |       |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOT9N40     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 400                 | 30                   | 8                  | 5    | 132                |       | 800                                               |       |      |      |      |      | 4.5                         | 630                   | 5.7                   | 13.1*                 | 4.8*                 | 17                      | 25                       |  |
| AOT12N40    | TO-220     | Single        | High Voltage        | N    | No        | No             |               | 400                 | 30                   | 11                 | 7    | 184                |       | 590                                               |       |      |      |      |      | 4.5                         | 925                   | 6.4                   | 17*                   | 5.7*                 | 25                      | 41                       |  |
| AOT12N30    | TO-220     | Single        | High Voltage        | N    | No        | No             |               | 300                 | 30                   | 11.5               | 7.3  | 132                |       | 420                                               |       |      |      |      |      | 4.5                         | 632                   | 7                     | 12.8*                 | 4.3*                 | 18                      | 36                       |  |
| AOT20N25    | TO-220     | Single        | High Voltage        | N    | No        | No             |               | 250                 | 30                   | 20                 | 14   | 208                |       | 170                                               |       |      |      |      |      | 4.5                         | 1028                  | 11                    | 20*                   | 8*                   | 27                      | 70                       |  |
| AOT254L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 150                 | 20                   | 32                 | 22.5 | 125                | 62.5  | 46                                                | 53    |      |      |      |      | 2.7                         | 2150                  | 4                     | 12                    | 3                    | 9                       | 29                       |  |
| AOT2500L    | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 150                 | 20                   | 152                | 107  | 375                | 187.5 | 6.5                                               |       |      |      |      |      | 3.5                         | 6460                  | 22                    | 97*                   | 17                   | 18.5                    | 67.5                     |  |
| AOT290L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 140                | 110  | 500                | 250   | 3.5                                               |       |      |      |      |      | 4.1                         | 7180                  | 42                    | 90*                   | 21                   | 31                      | 45                       |  |
| AOT292L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 105                | 82   | 300                | 150   | 4.5                                               | 5.3*  |      |      |      |      | 3.4                         | 6775                  | 32                    | 90*                   | 13.5*                | 20                      | 48                       |  |
| AOT296L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 70                 | 50   | 107                | 54    | 10                                                | 12.5* |      |      |      |      | 3.4                         | 2785                  | 12                    | 16.5                  | 5                    | 13                      | 29                       |  |
| AOT298L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 58                 |      | 100                | 50    | 14.5                                              |       |      |      |      |      | 4.1                         | 1250                  | 25                    | 18                    | 6*                   | 7.5                     | 15                       |  |
| AOT410L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 150                | 108  | 333                | 167   | 6.5                                               | 7.5*  |      |      |      |      | 4                           | 6622                  | 215                   | 107*                  | 40                   | 28                      | 43.5                     |  |
| AOT412      | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 60                 | 44   | 150                | 75    | 15.8                                              | 19.4* |      |      |      |      | 3.8                         | 2680                  | 100                   | 45                    | 15                   | 19                      | 27                       |  |
| AOT414      | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 43                 | 31   | 115                | 58    | 25                                                | 31*   |      |      |      |      | 4                           | 1770                  | 55                    | 28*                   | 10                   | 12                      | 17                       |  |
| AOT416      | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 42                 | 30   | 150                | 75    | 37                                                | 43    |      |      |      |      | 4                           | 1180                  | 36                    | 19*                   | 6.3                  | 10                      | 15                       |  |
| AOT418L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 105                | 82   | 333                | 167   | 10                                                | 12*   |      |      |      |      | 3.9                         | 4334                  | 131                   | 69*                   | 22*                  | 21                      | 38                       |  |
| AOT1100L    | TO-220     | Single        | High Voltage        | N    | No        | No             |               | 100                 | 20                   | 130                | 92   | 500                | 250   | 12                                                |       |      |      |      |      | 3.8                         | 4833                  | 35                    | 82*                   | 19*                  | 21                      | 50                       |  |
| AOT2910L    | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 30                 | 21   | 50                 | 25    | 24                                                | 33    |      |      |      |      | 2.7                         | 1190                  | 7                     | 7                     | 2.5                  | 7                       | 20                       |  |
| AOT2916L    | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 23                 | 16   | 41.5               | 20.5  | 34                                                | 42.5  |      |      |      |      | 2.7                         | 870                   | 3.5                   | 5.5                   | 2                    | 7.5                     | 23                       |  |
| AOT2918L    | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 90                 | 70   | 267                | 133   | 7                                                 |       |      |      |      |      | 3.9                         | 2580                  | 37                    | 38*                   | 12                   | 17                      | 30                       |  |
| AOT280L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 80                  | 20                   | 140                | 110  | 333                | 166   | 2.7                                               | 3.5*  |      |      |      |      | 3.4                         | 11135                 | 80                    | 160*                  | 28*                  | 30                      | 75                       |  |
| AOT282L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 80                  | 20                   | 105                | 82   | 272.5              | 136   | 3.5                                               | 5.2*  |      |      |      |      | 3.5                         | 7765                  | 66                    | 58                    | 21                   | 24                      | 55                       |  |
| AOT284L     | TO-220     | Single        | General Purpose     | N    | No        | No             |               | 80                  | 20                   | 105                | 82   | 250                | 125   | 4.5                                               | 5.7*  |      |      |      |      | 3.3                         | 5154                  | 48                    | 33.5                  | 11.5                 | 18                      | 38                       |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

| Part Number            | Package    | Configuration  | Popular Application | Type                   | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |             | P <sub>D</sub> (W) |             | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |           |      |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |  |
|------------------------|------------|----------------|---------------------|------------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|-------------|--------------------|-------------|---------------------------------------------------|-----------|------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|--|
|                        |            |                |                     |                        |           |                |               |                     |                      | 25°C               | 70°C        | 25°C               | 70°C        | 10V                                               | 4.5V      | 2.5V | 1.8V | 1.5V | 1.2V |                             |                       |                       |                       |                      |                         |                          |  |
| AOT286L                | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 20                   | 70                 | 55          | 167                | 83          | 6                                                 | 7.9       |      |      |      |      | 3.3                         | 3142                  | 43                    | 44.5*                 | 8*                   | 13.5                    | 32                       |  |
| AOT288L                | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 20                   | 46                 | 36          | 93.5               | 46.5        | 9.2                                               | 12.5*     |      |      |      |      | 3.4                         | 1871                  | 14                    | 26.5                  | 4                    | 11.5                    | 21.5                     |  |
| AOT480L                | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 25                   | 180                | 134         | 333                | 167         | 4.5                                               | 5.5*      |      |      |      |      | 4                           | 6520                  | 310                   | 116*                  | 38                   | 31.5                    | 46                       |  |
| AOT482L                | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 25                   | 105                | 82          | 333                | 167         | 7.2                                               | 9*        |      |      |      |      | 3.7                         | 4054                  | 160                   | 66.8*                 | 20.2*                | 26                      | 48                       |  |
| AOT270AL               | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 75                  | 20                   | 140                | 110         | 500                | 250         | 2.6                                               | 3*        |      |      |      |      | 3                           | 10350                 | 90                    | 153*                  | 35*                  | 30                      | 80                       |  |
| AOT430                 | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 75                  | 25                   | 80                 | 78          | 268                | 134         | 11.5                                              |           |      |      |      |      | 4                           | 4700                  | 180                   | *114                  | 18                   | 21                      | 70                       |  |
| AOT470                 | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 75                  | 25                   | 100                | 78          | 268                | 134         | 10.5                                              |           |      |      |      |      | 4                           | 4700                  | 180                   | 114*                  | 18                   | 21                      | 70                       |  |
| AOT472                 | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 75                  | 20                   | 140                | 101         | 417                | 208         | 8.9                                               |           |      |      |      |      | 3.9                         | 3753                  | 54                    | 96*                   | 13                   | 18                      | 57                       |  |
| AOT474                 | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 75                  | 20                   | 127                | 89          | 417                | 208         | 11.3                                              |           |      |      |      |      | 4                           | 2805                  | 36                    | 49.6                  | 14                   | 15                      | 42                       |  |
| AOT260L                | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 140                | 110         | 330                | 165         | 2.5                                               | 2.9*      |      |      |      |      | 3.2                         | 11800                 | 40                    | 150*                  | 15                   | 30                      | 74                       |  |
| AOT262L                | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 140                | 110         | 333                | 167         | 3                                                 | 3.2*      |      |      |      |      | 3.2                         | 8140                  | 32                    | 95*                   | 5*                   | 27                      | 47                       |  |
| AOT264L                | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 140                | 110         | 333                | 167         | 3.2                                               | 3.5       |      |      |      |      | 3.2                         | 6960                  | 30                    | 75*                   | 5*                   | 23                      | 45                       |  |
| AOT266L                | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 140                | 110         | 268                | 134         | 3.5                                               | 4*        |      |      |      |      | 3.2                         | 5650                  | 20                    | 65*                   | 7*                   | 21                      | 36                       |  |
| AOT460                 | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 85                 | 85          | 268                | 134         | 7.5                                               |           |      |      |      |      | 4                           | 3800                  | 190                   | 68                    | 19                   | 18                      | 44                       |  |
| AOT462L <sup>(1)</sup> | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 35                 | 27          | 100                | 50          | 18                                                |           |      |      |      |      | 4                           | 1840                  | 80                    | 27.8                  | 6.6                  | 12                      | 38                       |  |
| AOT1606L               | TO-220     | Single         | Rugged Planar       | N                      | No        | No             |               | 60                  | 20                   | 178                | 126         | 417                | 208         | 6.3                                               |           |      |      |      |      | 3.7                         | 3735                  | 69                    | 85                    | 24                   | 18                      | 60                       |  |
| AOT1608L               | TO-220     | Single         | Rugged Planar       | N                      | No        | No             |               | 60                  | 20                   | 140                | 100         | 333                | 166         | 7.6                                               |           |      |      |      |      | 3.7                         | 3069                  | 56                    | 69                    | 21                   | 18                      | 47                       |  |
| AOT2606L               | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 72                 | 56          | 115                | 57.5        | 6.5                                               |           |      |      |      |      | 3.5                         | 4050                  | 16.8                  | 22                    | 5                    | 18                      | 33                       |  |
| AOT2608L               | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 72                 | 54          | 100                | 50          | 8                                                 |           |      |      |      |      | 3.6                         | 2995                  | 10.5                  | 38.5*                 | 3.5*                 | 15                      | 25                       |  |
| AOT2610L               | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 55                 | 39          | 75                 | 37.5        | 10.7                                              | 13.5      |      |      |      |      | 2.5                         | 2007                  | 12.5                  | 8.5                   | 2.2                  | 8.5                     | 27                       |  |
| AOT2618L               | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 23                 | 18          | 41.5               | 20.5        | 19                                                | 25        |      |      |      |      | 2.5                         | 950                   | 7                     | 6                     | 1.6                  | 7.5                     | 18                       |  |
| AOT240L                | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 105                | 82          | 176                | 88          | 2.9                                               | 3.7       |      |      |      |      | 2.2                         | 3510                  | 68                    | 22                    | 7                    | 11                      | 38                       |  |
| AOT440                 | TO-220     | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 105                | 82          | 150                | 75          | 4.7                                               | 6         |      |      |      |      | 2.3                         | 4666                  | 269                   | 36                    | 17                   | 15                      | 52                       |  |
| AOT1404L               | TO-220     | Single         | Rugged Planar       | N                      | No        | No             |               | 40                  | 20                   | 220                | 157         | 417                | 208         | 4.2                                               |           |      |      |      |      | 3.7                         | 3568                  | 151                   | 71                    | 23                   | 16                      | 54                       |  |
| TO-220F                |            |                |                     |                        |           |                |               |                     |                      |                    |             |                    |             |                                                   |           |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOTF20N40              | TO-220F    | Single         | High Voltage        | N                      | No        | No             |               | 400                 | 30                   | 20                 | 13          | 50                 |             | 250                                               |           |      |      |      |      | 4.3                         | 1898                  | 15                    | 37*                   | 12*                  | 44                      | 96                       |  |
| AOTF12N30              | TO-220F    | Single         | High Voltage        | N                      | No        | No             |               | 300                 | 30                   | 11.5               | 7.3         | 36                 |             | 420                                               |           |      |      |      |      | 4.5                         | 632                   | 7                     | 12.8*                 | 4.3*                 | 18                      | 36                       |  |
| AOTF450L               | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 200                 | 30                   | 5.8                | 4.1         | 27                 |             | 700                                               |           |      |      |      |      | 4.5                         | 194                   | 3.3                   | 3.6                   | 0.6                  | 11                      | 13                       |  |
| AOTF256L               | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 150                 | 20                   | 12                 | 8.5         | 33                 | 16          | 85                                                | 100       |      |      |      |      | 2.8                         | 1165                  | 2.5                   | 7                     | 1.2                  | 6.5                     | 23                       |  |
| AOTF454L               | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 150                 | 20                   | 13                 | 8           | 41                 | 16          | 94                                                |           |      |      |      |      | 4.6                         | 820                   | 22                    | 15                    | 4.4                  | 10.5                    | 14.5                     |  |
| AOTF298L               | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 20                   | 33                 | 26          | 33                 | 16          | 14.5                                              |           |      |      |      |      | 4.1                         | 1250                  | 25                    | 19*                   | 6*                   | 7.5                     | 15                       |  |
| <b>AOTF2910L</b>       | <b>NEW</b> | <b>TO-220F</b> | <b>Single</b>       | <b>General Purpose</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>100</b>          | <b>20</b>            | <b>22</b>          | <b>15.5</b> | <b>27</b>          | <b>13.5</b> | <b>24</b>                                         | <b>33</b> |      |      |      |      | <b>2.7</b>                  | <b>1190</b>           | <b>7</b>              | <b>7</b>              | <b>2.5</b>           | <b>7</b>                | <b>20</b>                |  |
| AOTF2916L              | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 20                   | 17                 | 12          | 23.5               | 11.5        | 34                                                | 43        |      |      |      |      | 2.7                         | 870                   | 3.5                   | 5.5                   | 2                    | 7.5                     | 23                       |  |
| AOTF2918L              | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 20                   | 58                 | 45          | 41                 | 20          | 7                                                 |           |      |      |      |      | 3.9                         | 2580                  | 37                    | 38*                   | 12                   | 17                      | 30                       |  |
| AOTF4126               | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 100                 | 25                   | 27                 | 19          | 42                 | 21          | 24                                                | 30        |      |      |      |      | 4                           | 1770                  | 55                    | 28*                   | 10*                  | 12                      | 17                       |  |
| AOTF288L               | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 80                  | 20                   | 43                 | 30          | 35.5               | 17.5        | 9.2                                               | 12.5*     |      |      |      |      | 3.4                         | 1871                  | 14                    | 26.5                  | 4                    | 11.5                    | 21.5                     |  |
| AOTF472                | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 75                  | 20                   | 53                 | 37.5        | 57.5               | 29          | 8.9                                               |           |      |      |      |      | 3.9                         | 3753                  | 54                    | 96*                   | 13                   | 18                      | 57                       |  |
| AOTF474                | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 75                  | 20                   | 47                 | 33          | 57.5               | 29          | 11.3                                              |           |      |      |      |      | 4                           | 2805                  | 36                    | 49.6                  | 14                   | 15                      | 42                       |  |
| AOTF260L               | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 92                 | 66.5        | 46.5               | 23.5        | 2.6                                               | 3*        |      |      |      |      | 3.2                         | 11800                 | 40                    | 150*                  | 15                   | 30                      | 74                       |  |
| AOTF266L               | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 78                 | 55          | 45.5               | 22.5        | 3.5                                               | 4*        |      |      |      |      | 3.2                         | 5650                  | 20                    | 65*                   | 7*                   | 21                      | 36                       |  |
| AOTF2606L              | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 54                 | 38          | 36.5               | 18          | 6.5                                               |           |      |      |      |      | 3.5                         | 4050                  | 16.8                  | 22                    | 5                    | 18                      | 33                       |  |
| AOTF2610L              | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 35                 | 25          | 31                 | 15.5        | 10.7                                              | 13.5      |      |      |      |      | 2.5                         | 2007                  | 12.5                  | 8.5                   | 2.2                  | 8.5                     | 27                       |  |
| AOTF2618L              | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 60                  | 20                   | 22                 | 16          | 23.5               | 11.5        | 19                                                | 25        |      |      |      |      | 2.5                         | 950                   | 7                     | 6                     | 1.6                  | 7.5                     | 18                       |  |
| AOTF240L               | TO-220F    | Single         | General Purpose     | N                      | No        | No             |               | 40                  | 20                   | 85                 | 60          | 41                 | 20          | 2.9                                               | 3.7       |      |      |      |      | 3.2                         | 3510                  | 68                    | 22                    | 7                    | 11                      | 38                       |  |
| AOTF4185               | TO-220F    | Single         | General Purpose     | P                      | No        | No             |               | -40                 | 20                   | -34                | -27         | 33                 | 16          | 16                                                | 20        |      |      |      |      | -2.5                        | 2550                  | 190                   | 18.6                  | 8.6                  | 9.4                     | 55                       |  |
| AOTF409                | TO-220F    | Single         | General Purpose     | P                      | No        | No             |               | -60                 | 20                   | -24                | -17         | 43                 | 21          | 40                                                | 54        |      |      |      |      | -2.4                        | 2461                  | 120                   | 19.7                  | 8.9                  | 12                      | 38                       |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

| Part Number | Package | Configuration | Popular Application | Type         | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |      | P <sub>D</sub> (W) |      | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |      |  |
|-------------|---------|---------------|---------------------|--------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------|--------------------|------|---------------------------------------------------|------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|------|--|
|             |         |               |                     |              |           |                |               |                     |                      | 25°C               | 70°C | 25°C               | 70°C | 10V                                               | 4.5V | 2.5V | 1.8V | 1.5V |                             |                       |                       |                       |                      |                         |                          | 1.2V |  |
| TO-247      |         |               |                     |              |           |                |               |                     |                      |                    |      |                    |      |                                                   |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |      |  |
| AOK40N30    | TO-247  | Single        | General Purpose     | N            | No        | No             |               | 300                 | 30                   | 40                 | 25   | 357                |      | 85                                                |      |      |      |      |                             | 4.1                   | 2718                  | 31                    | 60*                  | 21*                     | 54                       | 152  |  |
| AOK60N30    | TO-247  | Single        | General Purpose     | N            | No        | No             |               | 300                 | 30                   | 60                 | 40   | 658                |      | 56                                                |      |      |      |      |                             | 4.1                   | 4438                  | 38                    | 88*                  | 28*                     | 88                       | 224  |  |
| TO-251A     |         |               |                     |              |           |                |               |                     |                      |                    |      |                    |      |                                                   |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |      |  |
| AOI5N40     | TO-251A | Single        | High Voltage        | N            | No        | No             |               | 400                 | 30                   | 4.2                | 2.8  | 78                 |      | 1600                                              |      |      |      |      |                             | 4.5                   | 331                   | 3                     | 6.9*                 | 2.3*                    | 16.5                     | 24   |  |
| AOI468      | TO-251A | Single        | General Purpose     | N            | No        | No             |               | 300                 | 30                   | 11.5               | 8.3  | 150                |      | 420                                               |      |      |      |      |                             | 4.5                   | 632                   | 7                     | 12.8*                | 4.3*                    | 18                       | 36   |  |
| AOI8N25     | TO-251A | Single        | General Purpose     | N            | No        | No             |               | 250                 | 30                   | 8                  | 5    | 78                 |      | 560                                               |      |      |      |      |                             | 4.3                   | 306                   | 3.2                   | 6*                   | 1.5*                    | 14                       | 23   |  |
| AOI478      | TO-251A | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 11                 | 8    | 45                 | 23   | 140                                               | 152  |      |      |      |                             | 2.8                   | 445                   | 16                    | 5.1                  | 2.4                     | 8                        | 17   |  |
| AOI482      | TO-251A | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 32                 | 22   | 100                | 50   | 37                                                | 42   |      |      |      |                             | 2.7                   | 1630                  | 50                    | 18                   | 9                       | 7                        | 29   |  |
| AOI4126     | TO-251A | Single        | General Purpose     | N            | No        | No             |               | 100                 | 25                   | 43                 | 30   | 100                | 50   | 24                                                | 30*  |      |      |      |                             | 4                     | 1770                  | 55                    | 28*                  | 10                      | 12                       | 17   |  |
| AOI4286     | TO-251A | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 14                 | 10   | 30                 | 15   | 68                                                | 92   |      |      |      |                             | 2.9                   | 390                   | 3                     | 2.8                  | 1.2                     | 6                        | 18   |  |
| AOI442      | TO-251A | Single        | General Purpose     | N            | No        | No             |               | 60                  | 20                   | 37                 | 26   | 60                 | 30   | 20                                                | 25   |      |      |      |                             | 2.7                   | 1920                  | 116                   | 24.2                 | 14.4                    | 7.4                      | 28.2 |  |
| AOI444      | TO-251A | Single        | General Purpose     | N            | No        | No             |               | 60                  | 20                   | 12                 | 9    | 20                 | 10   | 60                                                | 85   |      |      |      |                             | 3                     | 450                   | 27                    | 3.8                  | 1.9                     | 4.2                      | 16   |  |
| AOI4130     | TO-251A | Single        | General Purpose     | N            | No        | No             |               | 60                  | 20                   | 30                 | 20   | 52                 | 25   | 24                                                | 30   |      |      |      |                             | 2.8                   | 1582                  | 67                    | 13.4                 | 7.2                     | 7.5                      | 33   |  |
| AOI4184     | TO-251A | Single        | Load Switch         | N            | No        | No             |               | 40                  | 20                   | 50                 | 40   | 50                 | 20   | 8                                                 | 11   |      |      |      |                             | 3                     | 1500                  | 135                   | 27.2                 | 6.4                     | 6.4                      | 29.6 |  |
| AOI4185     | TO-251A | Single        | General Purpose     | N            | No        | No             |               | -40                 | 20                   | -40                | -31  | 62.5               | 31   | 15                                                | 20   |      |      |      |                             | -3                    | 2550                  | 190                   | 18.6                 | 8.6                     | 9.4                      | 55   |  |
| AOI409      | TO-251A | Single        | General Purpose     | N            | No        | No             |               | -60                 | 20                   | -26                | -18  | 60                 | 30   | 40                                                | 55   |      |      |      |                             | -2.4                  | 2977                  | 153                   | 22.2                 | 10                      | 12                       | 38   |  |
| TO-252      |         |               |                     |              |           |                |               |                     |                      |                    |      |                    |      |                                                   |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |      |  |
| AOD3N40     | TO-252  | Single        | High Voltage        | N            | No        | No             |               | 400                 | 30                   | 2.6                | 1.6  | 50                 |      | 3100                                              |      |      |      |      |                             | 4.5                   | 186                   | 2.1                   | 4.2*                 | 1*                      | 14                       | 18   |  |
| AOD5N40     | TO-252  | Single        | High Voltage        | N            | No        | No             |               | 400                 | 30                   | 4.2                | 2.8  | 78                 |      | 1600                                              |      |      |      |      |                             | 4.5                   | 331                   | 3                     | 6.9*                 | 2.3*                    | 16.5                     | 24   |  |
| AOD5T40P    | NEW     | TO-252        | Single              | High Voltage | N         | No             | No            | 400                 | 30                   | 3.9                | 2.5  | 52                 |      | 1450                                              |      |      |      |      |                             | 5                     | 273                   | 1.5                   | 5*                   | 1.4*                    | 17                       | 18   |  |
| AOD9N40     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 400                 | 30                   | 8                  | 5    | 125                |      | 860                                               |      |      |      |      |                             | 4.5                   | 962                   | 8                     | 19.5*                | 7.1*                    | 24                       | 55   |  |
| AOD468      | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 300                 | 30                   | 11.5               | 8.3  | 150                | 1    | 420                                               |      |      |      |      |                             | 4.5                   | 632                   | 7                     | 12.8*                | 4.3*                    | 18                       | 36   |  |
| AOD458      | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 250                 | 30                   | 14                 | 10   | 150                |      | 280                                               |      |      |      |      |                             | 4.5                   | 637                   | 7.1                   | 12                   | 4.6                     | 21                       | 29   |  |
| AOD8N25     | TO-252  | Single        | High Voltage        | N            | No        | No             |               | 250                 | 30                   | 8                  | 5    | 78                 |      | 560                                               |      |      |      |      |                             | 4.3                   | 306                   | 3.2                   | 6*                   | 1.5*                    | 14                       | 23   |  |
| AOD450      | TO-252  | Single        | Inverter            | N            | No        | No             |               | 200                 | 30                   | 3.8                | 2.7  | 25                 | 12.5 | 700                                               |      |      |      |      |                             | 6                     | 215                   | 7.2                   | 3.82*                | 1.47                    | 6.3                      | 10.5 |  |
| AOD2210     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 200                 | 20                   | 18                 | 13   | 100                | 50   | 105                                               |      |      |      |      |                             | 2.5                   | 2065                  | 3.8                   | 12                   | 3                       | 8                        | 30   |  |
| AOD4504     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 200                 | 20                   | 6                  | 4.5  | 42.5               | 21   | 400                                               |      |      |      |      |                             | 3.7                   | 328                   | 8                     | 44                   | 30                      | 6                        | 18   |  |
| AOD254      | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 150                 | 20                   | 28                 | 20   | 100                | 50   | 46                                                | 53   |      |      |      |                             | 2.7                   | 2150                  | 4                     | 12                   | 3                       | 9                        | 29   |  |
| AOD256      | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 150                 | 20                   | 19                 | 13.5 | 83                 | 41.5 | 85                                                | 100  |      |      |      |                             | 2.8                   | 1165                  | 2.5                   | 7                    | 1.2                     | 6.5                      | 23   |  |
| AOD2544     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 150                 | 20                   | 23                 | 16   | 75                 | 37.5 | 54                                                | 66   |      |      |      |                             | 2.7                   | 675                   | 4                     | 5.5                  | 2.5                     | 6                        | 20   |  |
| AOD4454     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 150                 | 20                   | 20                 | 14   | 100                | 50   | 94                                                | 110* |      |      |      |                             | 4.6                   | 820                   | 22                    | 15*                  | 4.4                     | 10.5                     | 14.5 |  |
| AOD464      | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 105                 | 25                   | 40                 | 28   | 100                | 50   | 28                                                |      |      |      |      |                             | 4                     | 2038                  | 85                    | 38.5*                | 10                      | 12.7                     | 31.5 |  |
| AOD478      | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 11                 | 8    | 45                 | 23   | 140                                               | 152  |      |      |      |                             | 2.8                   | 445                   | 16                    | 5.1                  | 2.4                     | 8                        | 17   |  |
| AOD482      | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 32                 | 22   | 100                | 50   | 37                                                | 42   |      |      |      |                             | 2.7                   | 1630                  | 50                    | 18                   | 9                       | 7                        | 29   |  |
| AOD2908     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 52                 | 36   | 75                 | 37   | 13.5                                              |      |      |      |      |                             | 4.1                   | 1250                  | 25                    | 19*                  | 6*                      | 7.5                      | 15   |  |
| AOD2910     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 31                 | 21.5 | 53.5               | 26.5 | 24                                                | 33   |      |      |      |                             | 2.7                   | 1190                  | 7                     | 7                    | 2.5                     | 7                        | 20   |  |
| AOD2916     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 25                 | 18   | 50                 | 25   | 34                                                | 43.5 |      |      |      |                             | 2.7                   | 870                   | 3.5                   | 5.5                  | 2                       | 7.5                      | 23   |  |
| AOD2922     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 7                  | 5    | 17                 | 8.5  | 140                                               | 176  |      |      |      |                             | 2.7                   | 250                   | 2.5                   | 1.8                  | 0.8                     | 5                        | 19   |  |
| AOD4124     | TO-252  | Single        | SMPS                | N            | No        | No             |               | 100                 | 25                   | 54                 | 38   | 150                | 75   | 21                                                | 25*  |      |      |      |                             | 4                     | 2006                  | 58                    | 31*                  | 11*                     | 14                       | 21   |  |
| AOD4126     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 100                 | 25                   | 43                 | 30   | 100                | 50   | 24                                                | 30*  |      |      |      |                             | 4                     | 1770                  | 55                    | 28*                  | 10                      | 12                       | 17   |  |
| AOD4286     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 100                 | 20                   | 14                 | 10   | 30                 | 15   | 68                                                | 92   |      |      |      |                             | 2.9                   | 390                   | 3                     | 2.8                  | 1.2                     | 6                        | 18   |  |
| AOD2810     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 80                  | 20                   | 46                 | 36   | 100                | 50   | 8.5                                               | 12*  |      |      |      |                             | 3.4                   | 1871                  | 14                    | 26.5*                | 4*                      | 11.5                     | 21.5 |  |
| AOD2816     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 80                  | 20                   | 35                 | 27   | 53.5               | 26.5 | 15                                                | 29*  |      |      |      |                             | 3.5                   | 1109                  | 9                     | 5                    | 3.2                     | 8                        | 17   |  |
| AOD4180     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 80                  | 25                   | 54                 | 42   | 150                | 50   | 14                                                | 18*  |      |      |      |                             | 4                     | 2003                  | 77                    | 31.2*                | 11.4*                   | 14                       | 22   |  |
| AOD4182     | TO-252  | Single        | General Purpose     | N            | No        | No             |               | 80                  | 25                   | 53                 | 38   | 100                | 50   | 15.5                                              | 20*  |      |      |      |                             | 4.2                   | 1670                  | 72                    | 28*                  | 8                       | 12                       | 20   |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

| Part Number | Package | Configuration | Popular Application | Type            | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |      | P <sub>D</sub> (W) |       | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |       |      |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |  |
|-------------|---------|---------------|---------------------|-----------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------|--------------------|-------|---------------------------------------------------|-------|------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|--|
|             |         |               |                     |                 |           |                |               |                     |                      | 25°C               | 70°C | 25°C               | 70°C  | 10V                                               | 4.5V  | 2.5V | 1.8V | 1.5V | 1.2V |                             |                       |                       |                       |                      |                         |                          |  |
| AOD446      | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 75                  | 25                   | 10                 | 10   | 20                 | 10    | 140                                               | 165   |      |      |      |      | 3                           | 293                   | 20                    | 5.2*                  | 1.34                 | 4.6                     | 14.7                     |  |
| AOD474      | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 75                  | 20                   | 10                 | 7    | 28.5               | 14.5  | 130                                               | 155   |      |      |      |      | 2.4                         | 280                   | 13                    | 3                     | 1.5                  | 5                       | 16                       |  |
| AOD474A     | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 75                  | 16                   | 10                 | 7    | 28.5               | 14.5  | 130                                               | 155   |      |      |      |      | 1.6                         | 280                   | 13                    | 3                     | 1.5                  | 5                       | 16                       |  |
| AOD474B     | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 75                  | 20                   | 10                 | 7    | 28.5               | 14.5  | 132                                               | 155   |      |      |      |      | 2.3                         | 282                   | 12                    | 3.2                   | 1.7                  | 5                       | 16                       |  |
| AOD442      | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 38                 | 27   | 60                 | 30    | 20                                                | 25    |      |      |      |      | 3                           | 1920                  | 116                   | 24.2                  | 14.4                 | 7.4                     | 28.2                     |  |
| AOD444      | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 12                 | 9    | 20                 | 10    | 60                                                | 85    |      |      |      |      | 3                           | 450                   | 27                    | 3.8                   | 1.9                  | 4.2                     | 16                       |  |
| AOD2606     | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 46                 | 36   | 150                | 75    | 6.8                                               |       |      |      |      |      | 3.5                         | 4050                  | 16.8                  | 22                    | 5                    | 18                      | 33                       |  |
| AOD2610     | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 46                 | 36   | 71.5               | 35.5  | 10.7                                              | 13.5  |      |      |      |      | 2.5                         | 2007                  | 12.5                  | 8.5                   | 2.2                  | 8.5                     | 27                       |  |
| AOD4130     | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 60                  | 20                   | 30                 | 20   | 52                 | 25    | 24                                                | 30    |      |      |      |      | 2.8                         | 1582                  | 67                    | 13.4                  | 7.2                  | 7.5                     | 33                       |  |
| AOD240      | TO-252  | Single        | SMPS                | N               | No        | No             |               | 40                  | 20                   | 70                 | 55   | 150                | 75    | 3                                                 | 3.9   |      |      |      |      | 2.2                         | 3510                  | 68                    | 22                    | 7                    | 11                      | 38                       |  |
| AOD242      | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 40                  | 20                   | 54                 | 42   | 53.5               | 26.5  | 5.8                                               | 8.2   |      |      |      |      | 2.3                         | 1350                  | 26                    | 8                     | 2.3                  | 6                       | 23                       |  |
| AOD454A     | TO-252  | Single        | General Purpose     | N               | No        | No             |               | 40                  | 20                   | 20                 | 15   | 37                 | 18    | 30                                                | 40    |      |      |      |      | 3                           | 516                   | 43                    | 8.3                   | 1.6                  | 6.4                     | 16.2                     |  |
| AOD486A     | TO-252  | Single        | Inverter            | N               | Yes       | No             |               | 40                  | 20                   | 50                 | 36   | 50                 | 25    | 9.8                                               | 13    |      |      |      |      | 3                           | 1600                  | 100                   | 10.5                  | 4.8                  | 6.5                     | 33                       |  |
| AOD4184     | TO-252  | Single        | Inverter            | N               | No        | No             |               | 40                  | 20                   | 50                 | 40   | 50                 | 20    | 8                                                 | 11    |      |      |      |      | 3                           | 1500                  | 135                   | 13.6                  | 6.4                  | 6.4                     | 29.6                     |  |
| AOD4184A    | TO-252  | Single        | Inverter            | N               | No        | No             |               | 40                  | 20                   | 50                 | 40   | 50                 | 25    | 7                                                 | 9.5   |      |      |      |      | 2.6                         | 1500                  | 135                   | 14                    | 6                    | 6                       | 30                       |  |
| AOD4186     | TO-252  | Single        | Inverter            | N               | No        | No             |               | 40                  | 20                   | 35                 | 27   | 50                 | 25    | 15                                                | 19    |      |      |      |      | 2.7                         | 980                   | 80                    | 9                     | 4.5                  | 6                       | 26                       |  |
| AOD413A     | TO-252  | Single        | General Purpose     | P               | No        | No             |               | -40                 | 20                   | -12                | -12  | 50                 | 25    | 44                                                | 66    |      |      |      |      | -3                          | 900                   | 68                    | 7.2                   | 3.5                  | 6.2                     | 44.8                     |  |
| AOD4185     | TO-252  | Single        | General Purpose     | P               | No        | No             |               | -40                 | 20                   | -40                | -31  | 62.5               | 31    | 15                                                | 20    |      |      |      |      | -3                          | 2550                  | 190                   | 18.6                  | 8.5                  | 9.4                     | 55                       |  |
| AOD4189     | TO-252  | Single        | Inverter            | P               | No        | No             |               | -40                 | 20                   | -40                | -28  | 62.5               | 31    | 22                                                | 29    |      |      |      |      | -3                          | 1870                  | 155                   | 7.9                   | 6.2                  | 10                      | 38                       |  |
| AOD407      | TO-252  | Single        | General Purpose     | P               | No        | No             |               | -60                 | 20                   | -12                | -10  | 50                 | 25    | 115                                               | 150   |      |      |      |      | -3                          | 987                   | 46                    | 7.4                   | 3.5                  | 9                       | 25                       |  |
| AOD409      | TO-252  | Single        | General Purpose     | P               | No        | No             |               | -60                 | 20                   | -26                | -18  | 60                 | 30    | 40                                                | 55    |      |      |      |      | -2.4                        | 2977                  | 153                   | 22.2                  | 10                   | 12                      | 38                       |  |
| AOD603A     | TO-252  | Complementary | Inverter            | N               | No        | No             |               | 60                  | 20                   | 12                 | 9.5  | 27                 | 13.5  | 60                                                | 85    |      |      |      |      | 3                           | 450                   | 27                    | 3.8                   | 1.9                  | 4.2                     | 16                       |  |
| AOD603A     | TO-252  | Complementary | Inverter            | P               | No        | No             |               | -60                 | 20                   | -12                | -9.5 | 42.5               | 21.5  | 115                                               | 150   |      |      |      |      | -3                          | 960                   | 38                    | 7.4                   | 3.5                  | 9                       | 25                       |  |
| AOD609      | TO-252  | Complementary | Inverter            | N               | No        | No             |               | 40                  | 20                   | 12                 | 12   | 27                 | 14    | 30                                                | 40    |      |      |      |      | 3                           | 516                   | 43                    | 8.3                   | 1.6                  | 6.4                     | 16.2                     |  |
| AOD609      | TO-252  | Complementary | Inverter            | P               | No        | No             |               | -40                 | 20                   | -12                | -12  | 30                 | 15    | 45                                                | 66    |      |      |      |      | -3                          | 900                   | 68                    | 7.2                   | 3.5                  | 6.2                     | 44.8                     |  |
| TO-262      |         |               |                     |                 |           |                |               |                     |                      |                    |      |                    |       |                                                   |       |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOW2500     | TO-262  | Single        | General Purpose     | N               | No        | No             |               | 150                 | 20                   | 152                | 107  | 375                | 187.5 | 6.2                                               |       |      |      |      |      | 3.5                         | 6460                  | 22                    | 97*                   | 17                   | 18.5                    | 67.5                     |  |
| AOW298      | TO-262  | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 58                 | 41   | 100                | 50    | 14.5                                              |       |      |      |      |      | 4.1                         | 1250                  | 25                    | 19*                   | 6*                   | 7.5                     | 15                       |  |
| AOW410      | TO-262  | Single        | General Purpose     | N               | No        | No             |               | 100                 | 25                   | 150                | 108  | 333                | 167   | 6.5                                               | 7.5*  |      |      |      |      | 4                           | 6622                  | 215                   | 107*                  | 40                   | 28                      | 43.5                     |  |
| AOW418      | TO-262  | Single        | General Purpose     | N               | No        | No             |               | 100                 | 25                   | 105                | 82   | 333                | 167   | 10                                                | 12*   |      |      |      |      | 3.9                         | 4334                  | 131                   | 69*                   | 22*                  | 21                      | 38                       |  |
| AOW2918     | TO-262  | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 90                 | 70   | 267                | 133   | 7                                                 |       |      |      |      |      | 3.9                         | 2580                  | 37                    | 38*                   | 12                   | 17                      | 30                       |  |
| AOW284      | NEW     | TO-262        | Single              | General Purpose | N         | No             | No            | 80                  | 20                   | 105                | 82   | 250                | 125   | 4.3                                               |       |      |      |      |      | 3.3                         | 5154                  | 48                    | 71*                   | 11.5*                | 18                      | 38                       |  |
| AOW480      | TO-262  | Single        | General Purpose     | N               | No        | No             |               | 80                  | 25                   | 180                | 134  | 333                | 167   | 4.5                                               | 5.5*  |      |      |      |      | 4                           | 6520                  | 310                   | 116*                  | 38*                  | 31.5                    | 46                       |  |
| AOW482      | TO-262  | Single        | General Purpose     | N               | No        | No             |               | 80                  | 25                   | 105                | 82   | 333                | 167   | 7.2                                               | 9*    |      |      |      |      | 3.7                         | 4054                  | 160                   | 66.8*                 | 20.2*                | 26                      | 48                       |  |
| TO-262F     |         |               |                     |                 |           |                |               |                     |                      |                    |      |                    |       |                                                   |       |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOWF412     | TO-262F | Single        | General Purpose     | N               | No        | No             |               | 100                 | 25                   | 30                 | 20   | 33                 | 16    | 15.8                                              |       |      |      |      |      | 3.8                         | 2680                  | 100                   | 45                    | 15                   | 19                      | 27                       |  |
| AOWF2606    | TO-262F | Single        | General Purpose     | N               | No        | No             |               | 60                  | 30                   | 51                 | 36.5 | 33.3               | 16.7  | 6.5                                               |       |      |      |      |      | 3.8                         | 4050                  | 16.8                  | 22                    | 5                    | 18                      | 33                       |  |
| AOWF240L    | TO-262F | Single        | General Purpose     | N               | No        | No             |               | 40                  | 20                   | 83                 | 59   | 33.3               | 16.7  | 2.6                                               | 3.5   |      |      |      |      | 2.2                         | 3510                  | 68                    | 22                    | 7                    | 11                      | 38                       |  |
| TO-263      |         |               |                     |                 |           |                |               |                     |                      |                    |      |                    |       |                                                   |       |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOB254L     | TO-263  | Single        | General Purpose     | N               | No        | No             |               | 150                 | 20                   | 32                 | 22.6 | 125                | 62.5  | 46                                                | 53    |      |      |      |      | 2.7                         | 2150                  | 4                     | 12                    | 3                    | 9                       | 29                       |  |
| AOB256L     | TO-263  | Single        | General Purpose     | N               | No        | No             |               | 150                 | 20                   | 19                 | 13.5 | 83                 | 41.5  | 85                                                | 100   |      |      |      |      | 2.8                         | 1165                  | 2.5                   | 7                     | 1.2                  | 6.5                     | 23                       |  |
| AOB2500L    | TO-263  | Single        | General Purpose     | N               | No        | No             |               | 150                 | 20                   | 152                | 107  | 375                | 187.5 | 6.2                                               |       |      |      |      |      | 3.5                         | 6460                  | 22                    | 97*                   | 17                   | 18.5                    | 67.5                     |  |
| AOB290L     | TO-263  | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 140                | 440  | 500                | 250   | 3.2                                               |       |      |      |      |      | 4.1                         | 7180                  | 42                    | 90*                   | 21                   | 31                      | 45                       |  |
| AOB292L     | TO-263  | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 105                | 82   | 300                | 150   | 4.1                                               | 4.9*  |      |      |      |      | 3.4                         | 6775                  | 32                    | 90*                   | 13.5*                | 20                      | 48                       |  |
| AOB296L     | TO-263  | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 70                 | 50   | 107                | 54    | 9.7                                               | 12.2* |      |      |      |      | 3.4                         | 2785                  | 12                    | 16.5                  | 5                    | 13                      | 29                       |  |
| AOB298L     | TO-263  | Single        | General Purpose     | N               | No        | No             |               | 100                 | 20                   | 58                 | 41   | 100                | 50    | 14.5                                              |       |      |      |      |      | 4.1                         | 1250                  | 25                    | 19*                   | 6*                   | 7.5                     | 15                       |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Medium Voltage MOSFETs (Continued)

| Part Number | Package | Configuration | Popular Application | Type | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |      | P <sub>D</sub> (W) |      | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |       |      |      |      |      | VGS(th) (max V) | Ciss (pF) | Crss (pF) | Qg* (nC) | Qgd (nC) | Td(on) (ns) | Td(off) (ns) |
|-------------|---------|---------------|---------------------|------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------|--------------------|------|---------------------------------------------------|-------|------|------|------|------|-----------------|-----------|-----------|----------|----------|-------------|--------------|
|             |         |               |                     |      |           |                |               |                     |                      | 25°C               | 70°C | 25°C               | 70°C | 10V                                               | 4.5V  | 2.5V | 1.8V | 1.5V | 1.2V |                 |           |           |          |          |             |              |
| AOB410L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 150                | 108  | 333                | 167  | 6.2                                               | 7.2*  |      |      |      |      | 4               | 6622      | 215       | 107*     | 40       | 28          | 43.5         |
| AOB412L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 60                 | 44   | 150                | 75   | 15.5                                              | 19.1* |      |      |      |      | 3.8             | 2680      | 100       | 45*      | 15       | 19          | 27           |
| AOB414      | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 51                 | 36   | 150                | 75   | 25                                                | 31*   |      |      |      |      | 4               | 1770      | 55        | 28*      | 10       | 12          | 17           |
| AOB416      | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 45                 | 32   | 150                | 75   | 36                                                | 43    |      |      |      |      | 4               | 1180      | 36        | 20*      | 6.3      | 10          | 15           |
| AOB418L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 100                 | 25                   | 105                | 82   | 333                | 167  | 9.7                                               | 11.7* |      |      |      |      | 3.9             | 4334      | 131       | 69*      | 22*      | 21          | 38           |
| AOB1100L    | TO-263  | Single        | High Voltage        | N    | No        | No             |               | 100                 | 20                   | 130                | 92   | 500                | 250  | 11.7                                              |       |      |      |      |      | 3.8             | 4833      | 35        | 82*      | 19*      | 21          | 50           |
| AOB2910L    | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 30                 | 21   | 50                 | 25   | 23.5                                              | 32.5  |      |      |      |      | 2.7             | 1190      | 7         | 7        | 2.5      | 7           | 20           |
| AOB2918L    | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 100                 | 20                   | 90                 | 70   | 267                | 133  | 7                                                 |       |      |      |      |      | 3.9             | 2580      | 37        | 38*      | 12       | 17          | 30           |
| AOB280L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 80                  | 20                   | 140                | 110  | 333                | 166  | 2.2                                               | 3.1*  |      |      |      |      | 3.4             | 11135     | 80        | 160*     | 28*      | 30          | 75           |
| AOB282L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 80                  | 20                   | 105                | 82   | 272.5              | 136  | 3.2                                               | 4.9*  |      |      |      |      | 3.5             | 7765      | 66        | 58       | 21       | 24          | 55           |
| AOB284L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 80                  | 20                   | 105                | 82   | 250                | 125  | 4.3                                               | 5.5*  |      |      |      |      | 3.3             | 5154      | 48        | 33.5     | 11.5     | 18          | 38           |
| AOB286L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 80                  | 20                   | 70                 | 55   | 167                | 83   | 5.7                                               | 7.6*  |      |      |      |      | 3.3             | 3142      | 43        | 44.5*    | 8*       | 13.5        | 32           |
| AOB288L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 80                  | 20                   | 46                 | 36   | 93.5               | 46.5 | 8.9                                               | 12.2* |      |      |      |      | 3.4             | 1871      | 14        | 26.5     | 4        | 11.5        | 21.5         |
| AOB480L     | TO-263  | Single        | SMPS                | N    | No        | No             |               | 80                  | 25                   | 180                | 134  | 333                | 167  | 4.2                                               | 5.2*  |      |      |      |      | 4               | 6520      | 310       | 116*     | 38       | 31.5        | 46           |
| AOB482L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 80                  | 25                   | 105                | 82   | 333                | 167  | 6.9                                               | 8.7*  |      |      |      |      | 3.7             | 4054      | 160       | 66.8*    | 20.2*    | 26          | 48           |
| AOB270AL    | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 75                  | 20                   | 140                | 110  | 500                | 250  | 2.4                                               | 3*    |      |      |      |      | 3.3             | 10830     | 97        | 147*     | 30*      | 30          | 66           |
| AOB470L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 75                  | 25                   | 100                | 78   | 268                | 134  | 10.2                                              |       |      |      |      |      | 4               | 4700      | 180       | 114*     | 18       | 21          | 70           |
| AOB260L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 60                  | 20                   | 140                | 110  | 330                | 165  | 2.2                                               | 2.5*  |      |      |      |      | 3.2             | 11800     | 40        | 150*     | 15       | 30          | 74           |
| AOB262L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 60                  | 20                   | 140                | 110  | 333                | 167  | 2.8                                               | 3*    |      |      |      |      | 3.2             | 8140      | 32        | 95*      | 5*       | 27          | 47           |
| AOB264L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 60                  | 20                   | 140                | 110  | 333                | 167  | 3                                                 | 3.3   |      |      |      |      | 3.2             | 6960      | 30        | 78*      | 5*       | 23          | 45           |
| AOB266L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 60                  | 20                   | 140                | 110  | 268                | 134  | 3.2                                               | 3.8*  |      |      |      |      | 3.2             | 5650      | 20        | 65*      | 7*       | 21          | 36           |
| AOB462L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 60                  | 20                   | 35                 | 27   | 100                | 50   | 18                                                |       |      |      |      |      | 4               | 1840      | 80        | 27.8     | 6.6      | 12          | 38           |
| AOB1606L    | TO-263  | Single        | Rugged Planar       | N    | No        | No             |               | 60                  | 20                   | 178                | 126  | 417                | 208  | 6                                                 |       |      |      |      |      | 3.7             | 3735      | 69        | 85       | 24       | 18          | 60           |
| AOB1608L    | TO-263  | Single        | Rugged Planar       | N    | No        | No             |               | 60                  | 20                   | 140                | 100  | 333                | 166  | 7.3                                               |       |      |      |      |      | 3.7             | 3069      | 56        | 69       | 21       | 18          | 47           |
| AOB2606L    | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 60                  | 30                   | 72                 | 56   | 115                | 57.5 | 6.2                                               |       |      |      |      |      | 3.5             | 4050      | 16.8      | 22       | 5        | 18          | 33           |
| AOB2608L    | TO-263  | Single        | Rugged Planar       | N    | No        | No             |               | 60                  | 20                   | 72                 | 54   | 100                | 50   | 7.6                                               |       |      |      |      |      | 3.6             | 2995      | 10.5      | 38.5*    | 3.5*     | 15          | 25           |
| AOB2618L    | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 60                  | 20                   | 23                 | 18   | 41.5               | 20.5 | 19                                                | 25    |      |      |      |      | 2.5             | 950       | 7         | 6        | 1.6      | 7.5         | 18           |
| AOB240L     | TO-263  | Single        | General Purpose     | N    | No        | No             |               | 40                  | 20                   | 105                | 82   | 176                | 88   | 2.6                                               | 3.5   |      |      |      |      | 2.2             | 3510      | 68        | 22       | 7        | 11          | 38           |
| AOB442      | TO-263  | Single        | SMPS                | N    | No        | No             |               | 40                  | 20                   | 105                | 82   | 150                | 75   | 4.2                                               | 5.3   |      |      |      |      | 2.3             | 4666      | 269       | 36       | 17       | 15          | 52           |
| AOB1404L    | TO-263  | Single        | Rugged Planar       | N    | No        | No             |               | 40                  | 20                   | 220                | 157  | 417                | 208  | 3.9                                               |       |      |      |      |      | 3.7             | 3568      | 151       | 71       | 23       | 16          | 54           |
| AOB4184     | TO-263  | Single        | Load Switch         | N    | No        | No             |               | 40                  | 20                   | 50                 | 24   | 50                 | 25   | 10                                                | 13    |      |      |      |      | 3               | 1500      | 135       | 13.6     | 6.4      | 6.4         | 29.6         |
| AOB409L     | TO-263  | Single        | General Purpose     | P    | No        | No             |               | -60                 | 20                   | -31.5              | -22  | 83.3               | 41.6 | 38                                                | 50    |      |      |      |      | -2.4            | 2461      | 120       | 19.7     | 8.9      | 12          | 38           |
| AOB411L     | TO-263  | Single        | General Purpose     | P    | No        | No             |               | -60                 | 20                   | -78                | -55  | 187                | 93   | 16.5                                              | 22    |      |      |      |      | -2.5            | 5330      | 234       | 40       | 18       | 17.5        | 83.5         |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs

| Part Number             | Package  | Configuration | Popular Application | Type            | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |       | P <sub>D</sub> (W) |      | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |        |      |      |      | VGS(th) (max V) | Ciss (pF) | Crss (pF) | Qg* (nC) | Qgd (nC) | Td(on) (ns) | Td(off) (ns) |      |  |
|-------------------------|----------|---------------|---------------------|-----------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|-------|--------------------|------|---------------------------------------------------|--------|------|------|------|-----------------|-----------|-----------|----------|----------|-------------|--------------|------|--|
|                         |          |               |                     |                 |           |                |               |                     |                      | 25°C               | 70°C  | 25°C               | 70°C | 10V                                               | 4.5V   | 2.5V | 1.8V | 1.5V |                 |           |           |          |          |             |              | 1.2V |  |
| SOT-23                  |          |               |                     |                 |           |                |               |                     |                      |                    |       |                    |      |                                                   |        |      |      |      |                 |           |           |          |          |             |              |      |  |
| AO3160                  | SOT-23A  | Single        | High Voltage        | N               | No        | No             |               | 600                 | 20                   | 0.04               | 0.03  | 1.39               | 0.89 | 500000                                            | 600000 |      |      |      |                 | 3.2       | 10        | 0.7      | 1*       | 0.52*       | 4            | 12.5 |  |
| AO3162                  | SOT-23-3 | Single        | High Voltage        | N               | No        | No             |               | 600                 | 30                   | 0.034              | 0.028 | 1.39               | 0.89 | 500000                                            |        |      |      |      |                 | 4.1       | 4.2       | 0.05     | 0.1*     | 0.05*       | 13.8         | 39.2 |  |
| DFN 8x8                 |          |               |                     |                 |           |                |               |                     |                      |                    |       |                    |      |                                                   |        |      |      |      |                 |           |           |          |          |             |              |      |  |
| AOV11S60                | DFN 8x8  | Single        | High Voltage        | N               | No        | No             |               | 600                 | 30                   | 8                  | 7     | 156                |      | 500                                               |        |      |      |      |                 | 4.1       | 545       | 1.42     | 11*      | 3.8*        | 20           | 59   |  |
| AOV15S60                | DFN 8x8  | Single        | High Voltage        | N               | No        | No             |               | 600                 | 30                   | 12                 | 9.4   | 208                |      | 360                                               |        |      |      |      |                 | 3.8       | 717       | 1.3      | 15.6*    | 6*          | 24.5         | 84   |  |
| AOV20S60                | DFN 8x8  | Single        | High Voltage        | N               | No        | No             |               | 600                 | 30                   | 18                 | 13    | 278                |      | 250                                               |        |      |      |      |                 | 4.1       | 1038      | 2.1      | 20*      | 7.6*        | 27.5         | 87.5 |  |
| TO-220                  |          |               |                     |                 |           |                |               |                     |                      |                    |       |                    |      |                                                   |        |      |      |      |                 |           |           |          |          |             |              |      |  |
| AOT500                  | NEW      | TO-220        | Single              | General Purpose | N         | No             | No            | Clamped             | Clamped              | 80                 | 57    | 115                | 58   | 5.3                                               |        |      |      |      |                 | 3         | 4735      | 340      | 34       | 15          | 25           | 150  |  |
| AOT502                  |          | TO-220        | Single              | General Purpose | N         | No             | No            | Clamped             | Clamped              | 60                 | 41    | 79                 | 39   | 11.5                                              |        |      |      |      |                 | 2.7       | 1205      | 109      | 23.4*    | 7           | 13.5         | 63   |  |
| AOT3N100                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 1000                | 30                   | 2.8                | 1.8   | 132                |      | 6000                                              |        |      |      |      |                 | 4.5       | 690       | 5        | 15       | 4.7         | 22           | 40   |  |
| AOT5N100                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 1000                | 30                   | 4                  | 2.5   | 195                |      | 4200                                              |        |      |      |      |                 | 4.5       | 950       | 6        | 19*      | 6.5*        | 27           | 50   |  |
| AOT8N80                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 800                 | 30                   | 7.4                | 4.6   | 245                |      | 1630                                              |        |      |      |      |                 | 4.5       | 1375      | 11       | 26       | 9.1         | 35           | 69   |  |
| AOT7N70                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 700                 | 30                   | 7                  | 4.2   | 198                |      | 1800                                              |        |      |      |      |                 | 4.5       | 978       | 7        | 20.5*    | 7.9*        | 23           | 53   |  |
| AOT9N70                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 700                 | 30                   | 9                  | 5.8   | 236                |      | 1200                                              |        |      |      |      |                 | 4.5       | 1357      | 7.4      | 28.5*    | 11.6*       | 35           | 76   |  |
| AOT11N70                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 700                 | 30                   | 11                 | 7.2   | 271                |      | 870                                               |        |      |      |      |                 | 4.5       | 1793      | 10.5     | 37.5*    | 15*         | 42           | 103  |  |
| AOT7N65                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 650                 | 30                   | 7                  | 4.5   | 192                |      | 1560                                              |        |      |      |      |                 | 4.5       | 887       | 7        | 19*      | 8.3*        | 22           | 54   |  |
| AOT7S65                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 650                 | 30                   | 7                  | 5     | 104                |      | 650                                               |        |      |      |      |                 | 4         | 434       | 1        | 9.2*     | 2.7*        | 21           | 55   |  |
| AOT8N65                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 650                 | 30                   | 8                  | 5.2   | 208                |      | 1150                                              |        |      |      |      |                 | 4.5       | 1165      | 9        | 23.5*    | 9.5*        | 26           | 65   |  |
| AOT10N65                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 650                 | 30                   | 10                 | 6.2   | 250                |      | 1000                                              |        |      |      |      |                 | 4.5       | 1369      | 10       | 27.7*    | 11.3*       | 30           | 74   |  |
| AOT11S65                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 650                 | 30                   | 11                 | 8     | 198                |      | 399                                               |        |      |      |      |                 | 4         | 646       | 1.1      | 13.2*    | 4.3*        | 25           | 77   |  |
| AOT12N65                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 650                 | 30                   | 12                 | 7.7   | 278                |      | 720                                               |        |      |      |      |                 | 4.5       | 1792      | 11.5     | 39.8*    | 16.8        | 36           | 120  |  |
| AOT15S65                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 650                 | 30                   | 15                 | 10    | 208                |      | 290                                               |        |      |      |      |                 | 4         | 841       | 1.1      | 17.2*    | 5.6*        | 27           | 90   |  |
| AOT25S65                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 650                 | 30                   | 25                 | 16    | 357                |      | 190                                               |        |      |      |      |                 | 4         | 1278      | 1.4      | 26.4*    | 9.5*        | 29           | 112  |  |
| AOT1N60                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 1.3                | 0.9   | 41.7               |      | 9000                                              |        |      |      |      |                 | 4.5       | 130       | 1.8      | 6.1      | 3.1         | 10           | 20   |  |
| AOT2N60 <sup>(1)</sup>  |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 2                  | 1.7   | 74                 |      | 4400                                              |        |      |      |      |                 | 4.5       | 270       | 2.8      | 9.5      | 4.7         | 17.2         | 27   |  |
| AOT3N60 <sup>(1)</sup>  |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 2.5                | 1.9   | 83                 |      | 3500                                              |        |      |      |      |                 | 4.5       | 304       | 3.3      | 9.9      | 4.6         | 17           | 24   |  |
| AOT4N60                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 4                  | 2.7   | 104                |      | 2200                                              |        |      |      |      |                 | 4.5       | 511       | 4.4      | 15       | 7.6         | 20.2         | 36   |  |
| AOT4S60                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 4                  | 3.7   | 83                 |      | 900                                               |        |      |      |      |                 | 4.1       | 263       | 0.75     | 6*       | 1.8*        | 18           | 40   |  |
| AOT5N60                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 5                  | 3.4   | 132                |      | 1800                                              |        |      |      |      |                 | 4.5       | 583       | 5.3      | 16.8     | 8.5         | 21           | 35   |  |
| AOT7N60                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 7                  | 4.8   | 192                |      | 1200                                              |        |      |      |      |                 | 4.5       | 861       | 6.6      | 23       | 11.2        | 25           | 51.5 |  |
| AOT7S60                 |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 7                  | 5     | 104                |      | 600                                               |        |      |      |      |                 | 3.9       | 372       | 1.2      | 8.2*     | 2.8*        | 19           | 50   |  |
| AOT8N60 <sup>(1)</sup>  |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 8                  | 6.2   | 208                |      | 900                                               |        |      |      |      |                 | 4.5       | 1140      | 7.8      | 28.4     | 13.4        | 30           | 69   |  |
| AOT10N60                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 10                 | 7.2   | 250                |      | 750                                               |        |      |      |      |                 | 4.5       | 1320      | 9.3      | 31.1     | 14.4        | 28           | 76   |  |
| AOT10T60P               | NEW      | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 10                 | 6.6   | 208                |      | 700                                               |        |      |      |      |                 | 5         | 1595      | 11       | 26*      | 8.2*        | 42           | 52   |  |
| AOT11C60 <sup>(1)</sup> |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 11                 | 9     | 278                |      | 400                                               |        |      |      |      |                 | 5         | 2000      | 2.8      | 30*      | 7*          | 50           | 70   |  |
| AOT11N60                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 11                 | 8     | 272                |      | 650                                               |        |      |      |      |                 | 4.5       | 1656      | 11.2     | 30.6*    | 9.6*        | 39           | 92   |  |
| AOT11S60                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 11                 | 8     | 178                |      | 399                                               |        |      |      |      |                 | 4.1       | 545       | 1.42     | 11*      | 3.8*        | 20           | 59   |  |
| AOT12N60                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 12                 | 9.7   | 278                |      | 550                                               |        |      |      |      |                 | 4.5       | 1751      | 13       | 40       | 17.9        | 39           | 122  |  |
| AOT12N60FD              |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 12                 | 8     | 278                |      | 650                                               |        |      |      |      |                 | 4         | 1659      | 15.8     | 41*      | 19*         | 34           | 120  |  |
| AOT15S60                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 15                 | 10    | 208                |      | 290                                               |        |      |      |      |                 | 3.8       | 717       | 1.3      | 15.6*    | 6*          | 24.5         | 84   |  |
| AOT20C60 <sup>(1)</sup> |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 20                 | 11    | 463                |      | 250                                               |        |      |      |      |                 | 5         | 3440      | 5        | 52*      | 14*         | 74           | 100  |  |
| AOT20N60                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 20                 | 12    | 417                |      | 370                                               |        |      |      |      |                 | 4.5       | 3061      | 22.8     | 61*      | 24*         | 57           | 128  |  |
| AOT20S60                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 20                 | 14    | 266                |      | 199                                               |        |      |      |      |                 | 4.1       | 1038      | 2.1      | 19.8*    | 7.6*        | 27.5         | 87.5 |  |
| AOT27S60                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 27                 | 17    | 357                |      | 160                                               |        |      |      |      |                 | 4         | 1294      | 2.3      | 26*      | 8.8*        | 31           | 99   |  |
| AOT42S60                |          | TO-220        | Single              | High Voltage    | N         | No             | No            | 600                 | 30                   | 37                 | 23    | 417                |      | 109                                               |        |      |      |      |                 | 3.8       | 2154      | 2.7      | 40*      | 11.9*       | 38.5         | 136  |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

| Part Number              | Package    | Configuration  | Popular Application | Type                | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |      | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |  |
|--------------------------|------------|----------------|---------------------|---------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|------|---------------------------------------------------|------|------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|--|
|                          |            |                |                     |                     |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C | 10V                                               | 4.5V | 2.5V | 1.8V | 1.5V | 1.2V |                             |                       |                       |                       |                      |                         |                          |  |
| AOT3N50                  | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 3                  | 1.9        | 74                 |      | 3000                                              |      |      |      |      |      | 4.5                         | 276                   | 2.6                   | 6.7                   | 2.7                  | 11                      | 20.5                     |  |
| AOT5N50                  | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 5                  | 3.3        | 104                |      | 1500                                              |      |      |      |      |      | 4.5                         | 517                   | 4.9                   | 15.5                  | 7.2                  | 14.5                    | 34.5                     |  |
| AOT8N50                  | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 8                  | 6          | 192                |      | 850                                               |      |      |      |      |      | 4.5                         | 868                   | 7.8                   | 23.6                  | 10.6                 | 19.5                    | 51.5                     |  |
| AOT9N50                  | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 9                  | 6          | 192                |      | 850                                               |      |      |      |      |      | 4.5                         | 868                   | 7.8                   | 23.6*                 | 10.6*                | 19.5                    | 51.5                     |  |
| AOT12N50                 | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 12                 | 8.4        | 250                |      | 520                                               |      |      |      |      |      | 4.5                         | 1361                  | 12.6                  | 29.1                  | 20.1                 | 29                      | 82                       |  |
| AOT13N50                 | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 13                 | 8.5        | 250                |      | 510                                               |      |      |      |      |      | 4.5                         | 1361                  | 12.6                  | 30.7*                 | 13*                  | 29                      | 82                       |  |
| AOT14N50                 | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 14                 | 11         | 278                |      | 380                                               |      |      |      |      |      | 4.5                         | 1914                  | 16                    | 42.8                  | 20.3                 | 44                      | 92                       |  |
| AOT14N50FD               | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 14                 | 9.6        | 278                |      | 470                                               |      |      |      |      |      | 4                           | 1654                  | 14.5                  | 38.8*                 | 17.5*                | 32                      | 104                      |  |
| AOT16N50                 | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 16                 | 11         | 278                |      | 370                                               |      |      |      |      |      | 4.5                         | 1914                  | 16                    | 42.8*                 | 20.3*                | 44                      | 92                       |  |
| AOT22N50                 | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 22                 | 15         | 417                |      | 260                                               |      |      |      |      |      | 4.5                         | 3086                  | 24                    | 69*                   | 24*                  | 60                      | 124                      |  |
| AOT29S50                 | TO-220     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 29                 | 18         | 357                |      | 150                                               |      |      |      |      |      | 3.9                         | 1312                  | 2.5                   | 26.6*                 | 9.2*                 | 28                      | 103                      |  |
| TO-220F                  |            |                |                     |                     |           |                |               |                     |                      |                    |            |                    |      |                                                   |      |      |      |      |      |                             |                       |                       |                       |                      |                         |                          |  |
| AOTF3N100                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 1000                | 30                   | 2.8                | 1.8        | 38                 |      | 6000                                              |      |      |      |      |      | 4.5                         | 690                   | 5                     | 15                    | 4.7                  | 22                      | 40                       |  |
| AOTF5N100                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 1000                | 30                   | 4                  | 2.5        | 42                 |      | 4200                                              |      |      |      |      |      | 4.5                         | 950                   | 6                     | 19*                   | 6.5*                 | 27                      | 50                       |  |
| AOTF3N90                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 900                 | 30                   | 2.4                | 1.5        | 35                 |      | 6700                                              |      |      |      |      |      | 4.5                         | 444                   | 3.3                   | 2.7*                  | 4.1*                 | 19                      | 42                       |  |
| AOTF4N90                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 900                 | 30                   | 4                  | 2.5        | 37                 |      | 3600                                              |      |      |      |      |      | 4.5                         | 728                   | 5.5                   | 18.4*                 | 8*                   | 22                      | 43                       |  |
| AOTF6N90                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 900                 | 30                   | 6                  | 3.9        | 50                 |      | 2200                                              |      |      |      |      |      | 4.5                         | 1196                  | 7.8                   | 29*                   | 13*                  | 30                      | 70                       |  |
| AOTF9N90                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 900                 | 30                   | 9                  | 6          | 50                 |      | 1300                                              |      |      |      |      |      | 4.5                         | 2130                  | 14                    | 9.5*                  | 20.5*                | 45                      | 116                      |  |
| AOTF10N90 <sup>(1)</sup> | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 900                 | 30                   | 10                 | 7          | 50                 |      | 980                                               |      |      |      |      |      | 4.5                         | 2360                  | 18                    | 13*                   | 27*                  | 64                      | 155                      |  |
| AOTF3N80                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 800                 | 30                   | 2.8                | 1.8        | 35                 |      | 4800                                              |      |      |      |      |      | 4.5                         | 510                   | 3.7                   | 10*                   | 2.9*                 | 21                      | 34                       |  |
| AOTF8N80                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 800                 | 30                   | 7.4                | 4.6        | 50                 |      | 1630                                              |      |      |      |      |      | 4.5                         | 1375                  | 11                    | 26                    | 9.1                  | 35                      | 69                       |  |
| AOTF7N70                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 700                 | 30                   | 7                  | 4.2        | 38.5               |      | 1800                                              |      |      |      |      |      | 4.5                         | 978                   | 7                     | 20.5*                 | 7.9*                 | 23                      | 53                       |  |
| AOTF9N70                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 700                 | 30                   | 9                  | 5.8        | 50                 |      | 1200                                              |      |      |      |      |      | 4.5                         | 1357                  | 7.4                   | 28.5*                 | 11.6*                | 35                      | 76                       |  |
| AOTF11N70                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 700                 | 30                   | 11                 | 7.2        | 50                 |      | 870                                               |      |      |      |      |      | 4.5                         | 1793                  | 10.5                  | 37.5*                 | 15*                  | 42                      | 103                      |  |
| AOTF7N65                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 7                  | 4.5        | 38.5               |      | 1500                                              |      |      |      |      |      | 5                           | 887                   | 7                     | 19*                   | 8.3*                 | 22                      | 54                       |  |
| AOTF7S65                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 7                  | 5          | 25                 |      | 650                                               |      |      |      |      |      | 4                           | 434                   | 17.5                  | 9.2*                  | 2.7*                 | 21                      | 55                       |  |
| AOTF8N65                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 8                  | 5.2        | 50                 |      | 1150                                              |      |      |      |      |      | 5                           | 1165                  | 9                     | 23.5*                 | 9.5*                 | 26                      | 65                       |  |
| AOTF10N65                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 10                 | 6.2        | 50                 |      | 1000                                              |      |      |      |      |      | 5                           | 1369                  | 10                    | 27.7*                 | 11.3*                | 30                      | 74                       |  |
| AOTF11S65                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 11                 | 8          | 39                 |      | 399                                               |      |      |      |      |      | 4                           | 646                   | 1.1                   | 13.2*                 | 4.3*                 | 25                      | 77                       |  |
| AOTF12N65                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 12                 | 7.7        | 50                 |      | 720                                               |      |      |      |      |      | 5                           | 1792                  | 11.5                  | 39.8*                 | 16.8                 | 36                      | 120                      |  |
| AOTF15S65                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 15                 | 10         | 50                 |      | 290                                               |      |      |      |      |      | 4                           | 841                   | 1.1                   | 17.2*                 | 5.3*                 | 27                      | 90                       |  |
| AOTF18N65                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 18                 | 12         | 50                 |      | 400                                               |      |      |      |      |      | 4.5                         | 3027                  | 22                    | 56*                   | 19.6*                | 54                      | 149                      |  |
| AOTF25S65                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 25                 | 16         | 50                 |      | 190                                               |      |      |      |      |      | 4                           | 1278                  | 1.4                   | 26.4*                 | 9.5*                 | 29                      | 112                      |  |
| AOTF11N62                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 620                 | 30                   | 11                 | 8          | 50                 |      | 650                                               |      |      |      |      |      | 4.5                         | 1656                  | 11.2                  | 30.6*                 | 9.6*                 | 39                      | 92                       |  |
| AOTF2N60 <sup>(1)</sup>  | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 2                  | 1.6        | 31                 |      | 4400                                              |      |      |      |      |      | 5                           | 270                   | 2.8                   | 9.5                   | 4.7                  | 17.2                    | 27                       |  |
| AOTF4N60                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 4                  | 2.5        | 35                 |      | 2200                                              |      |      |      |      |      | 4.5                         | 511                   | 4.4                   | 15                    | 7.6                  | 20.2                    | 36                       |  |
| AOTF4S60                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 4                  | 3          | 83                 |      | 900                                               |      |      |      |      |      | 4.1                         | 263                   | 0.75                  | 6*                    | 1.8*                 | 18                      | 40                       |  |
| <b>AOTF4T60P</b>         | <b>NEW</b> | <b>TO-220F</b> | <b>Single</b>       | <b>High Voltage</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>600</b>          | <b>30</b>            | <b>4</b>           | <b>2.5</b> | <b>35</b>          |      | <b>2100</b>                                       |      |      |      |      |      | <b>5</b>                    | <b>522</b>            | <b>2</b>              | <b>8.3*</b>           | <b>1.9*</b>          | <b>21</b>               | <b>25</b>                |  |
| AOTF7N60                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 7                  | 4.4        | 38.5               |      | 1200                                              |      |      |      |      |      | 5                           | 861                   | 6.6                   | 23.2                  | 11.2                 | 25                      | 51.5                     |  |
| AOTF7N60FD               | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 7                  | 4.4        | 192                |      | 1450                                              |      |      |      |      |      | 4.2                         | 826                   | 7.9                   | 20*                   | 7.7*                 | 24                      | 56                       |  |
| AOTF7S60                 | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 7                  | 5          | 34                 |      | 600                                               |      |      |      |      |      | 3.9                         | 372                   | 1.2                   | 8.2*                  | 2.8*                 | 19                      | 50                       |  |
| AOTF7T60 <sup>(1)</sup>  | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 7                  | 5          | 38                 |      | 1100                                              |      |      |      |      |      | 5                           | 962                   | 6.3                   | 16*                   | 4*                   | 27                      | 38                       |  |
| <b>AOTF7T60P</b>         | <b>NEW</b> | <b>TO-220F</b> | <b>Single</b>       | <b>High Voltage</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>600</b>          | <b>30</b>            | <b>7</b>           | <b>5</b>   | <b>38</b>          |      | <b>1100</b>                                       |      |      |      |      |      | <b>5</b>                    | <b>965</b>            | <b>6.2</b>            | <b>17*</b>            | <b>5.1*</b>          | <b>30</b>               | <b>34</b>                |  |
| AOTF8N60 <sup>(1)</sup>  | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 8                  | 5          | 60                 |      | 900                                               |      |      |      |      |      | 5                           | 1140                  | 7.8                   | 28.4                  | 13.4                 | 30                      | 69                       |  |
| AOTF10N60                | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 10                 | 6.4        | 60                 |      | 750                                               |      |      |      |      |      | 5                           | 1320                  | 9.3                   | 31.1                  | 14.4                 | 28                      | 76                       |  |
| AOTF10T60 <sup>(1)</sup> | TO-220F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 10                 | 7.2        | 50                 |      | 700                                               |      |      |      |      |      | 5                           | 1346                  | 3.8                   | 23*                   | 6.7*                 | 37                      | 53                       |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

| Part Number              | Package    | Configuration  | Popular Application | Type                | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |      | 10V        | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      |          | VGS(th) (max V) | Ciss (pF)   | Crss (pF)  | Qg* (nC)   | Qgd (nC)    | Td(on) (ns) | Td(off) (ns) |  |
|--------------------------|------------|----------------|---------------------|---------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|------|------------|---------------------------------------------------|------|------|------|----------|-----------------|-------------|------------|------------|-------------|-------------|--------------|--|
|                          |            |                |                     |                     |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C |            | 4.5V                                              | 2.5V | 1.8V | 1.5V | 1.2V     |                 |             |            |            |             |             |              |  |
| <b>AOTF10T60P</b>        | <b>NEW</b> | <b>TO-220F</b> | <b>Single</b>       | <b>High Voltage</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>600</b>          | <b>30</b>            | <b>10</b>          | <b>6.6</b> | <b>43</b>          |      | <b>700</b> |                                                   |      |      |      |          | <b>5</b>        | <b>1595</b> | <b>11</b>  | <b>26*</b> | <b>8.2*</b> | <b>42</b>   | <b>52</b>    |  |
| AOTF11C60 <sup>(1)</sup> |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 11                 | 9          | 50                 |      | 400        |                                                   |      |      |      |          | 5               | 2010        | 2.4        | 30*        | 7*          | 50          | 70           |  |
| AOTF11N60                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 11                 | 8          | 50                 |      | 650        |                                                   |      |      |      |          | 4.5             | 1656        | 11.2       | 30.6*      | 9.6*        | 39          | 92           |  |
| AOTF11S60                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 11*                | 8*         | 38                 |      | 399        |                                                   |      |      |      |          | 4.1             | 545         | 1.42       | 11*        | 3.8*        | 20          | 59           |  |
| AOTF12N60                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 12                 | 9.7        | 60                 |      | 550        |                                                   |      |      |      |          | 4.5             | 1751        | 13         | 40.5       | 17.9        | 39          | 122          |  |
| AOTF12N60FD              |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 12                 | 8          | 50                 |      | 650        |                                                   |      |      |      |          | 4               | 1659        | 15.8       | 41*        | 19*         | 34          | 120          |  |
| AOTF12T60 <sup>(1)</sup> |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 12*                | 9*         | 50                 |      | 520        |                                                   |      |      |      |          | 5               | 2028        | 13         | 33*        | 10*         | 52          | 66           |  |
| <b>AOTF12T60P</b>        | <b>NEW</b> | <b>TO-220F</b> | <b>Single</b>       | <b>High Voltage</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>600</b>          | <b>30</b>            | <b>12*</b>         | <b>9*</b>  | <b>50</b>          |      | <b>520</b> |                                                   |      |      |      | <b>5</b> | <b>2028</b>     | <b>13</b>   | <b>33*</b> | <b>10*</b> | <b>52</b>   | <b>66</b>   |              |  |
| AOTF15S60                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 15                 | 10         | 27.8               |      | 290        |                                                   |      |      |      |          | 3.8             | 717         | 1.3        | 15.6*      | 6*          | 24.5        | 84           |  |
| AOTF20C60 <sup>(1)</sup> |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 20                 | 11         | 50                 |      | 250        |                                                   |      |      |      |          | 5               | 3500        | 4          | 52*        | 14*         | 74          | 100          |  |
| AOTF20N60                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 20                 | 12         | 50                 |      | 370        |                                                   |      |      |      |          | 4.5             | 3061        | 22.8       | 61*        | 24*         | 57          | 128          |  |
| AOTF20S60                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 20*                | 14*        | 50                 |      | 199        |                                                   |      |      |      |          | 4.1             | 1038        | 2.1        | 19.8*      | 7.6*        | 27.5        | 87.5         |  |
| AOTF27S60                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 27                 | 17         | 50                 |      | 160        |                                                   |      |      |      |          | 4               | 1294        | 2.3        | 26*        | 8.8*        | 31          | 99           |  |
| AOTF42S60                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 39                 | 25         | 50                 |      | 99         |                                                   |      |      |      |          | 3.8             | 2154        | 2.7        | 40*        | 11.9*       | 38.5        | 136          |  |
| AOTF42S60L               |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 39                 | 25         | 37.9               |      | 99         |                                                   |      |      |      |          | 3.8             | 2154        | 2.7        | 40*        | 11.9*       | 38.5        | 136          |  |
| AOTF3N50                 |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 3                  | 1.9        | 31                 |      | 3000       |                                                   |      |      |      |          | 4.7             | 276         | 2.6        | 6.7        | 2.7         | 11          | 20.5         |  |
| AOTF5N50                 |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 5                  | 3.3        | 35                 |      | 1500       |                                                   |      |      |      |          | 4.7             | 517         | 4.9        | 15.5       | 7.2         | 14.5        | 34.5         |  |
| AOTF5N50FD               |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 5                  | 3.3        | 35                 |      | 1800       |                                                   |      |      |      |          | 4.2             | 440         | 4.5        | 11*        | 3.8*        | 18          | 31           |  |
| AOTF8N50                 |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 8                  | 5.6        | 38.5               |      | 850        |                                                   |      |      |      |          | 4.6             | 868         | 7.8        | 23.6       | 10.6        | 19.5        | 51.5         |  |
| AOTF9N50                 |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 9                  | 6          | 38.5               |      | 850        |                                                   |      |      |      |          | 4.6             | 868         | 7.8        | 23.6*      | 10.6*       | 19.5        | 51.5         |  |
| AOTF10N50FD              |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 10                 | 6          | 50                 |      | 750        |                                                   |      |      |      |          | 4.2             | 1030        | 10         | 29*        | 9.5*        | 24          | 69           |  |
| AOTF12N50                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 12                 | 7.6        | 50                 |      | 520        |                                                   |      |      |      |          | 4.5             | 1361        | 12.6       | 29.1       | 20.1        | 29          | 82           |  |
| AOTF12T50P               |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 12*                | 8*         | 43                 |      | 500        |                                                   |      |      |      |          | 5               | 1477        | 6.3        | 22*        | 5.5*        | 37          | 46           |  |
| AOTF13N50                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 13                 | 8.5        | 50                 |      | 510        |                                                   |      |      |      |          | 4.5             | 1361        | 12.6       | 30.7*      | 13*         | 29          | 82           |  |
| AOTF14N50                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 14                 | 11         | 50                 |      | 380        |                                                   |      |      |      |          | 4.5             | 1914        | 16         | 44         | 29          | 44          | 92           |  |
| AOTF14N50FD              |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 14                 | 9.6        | 50                 |      | 470        |                                                   |      |      |      |          | 4               | 1654        | 14.5       | 38.8*      | 17.5*       | 32          | 104          |  |
| AOTF16N50                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 16                 | 11         | 50                 |      | 370        |                                                   |      |      |      |          | 4.5             | 1914        | 16         | 42.8*      | 20.3*       | 44          | 92           |  |
| AOTF22N50                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 22                 | 15         | 50                 |      | 260        |                                                   |      |      |      |          | 4.5             | 3086        | 24         | 69*        | 24*         | 60          | 124          |  |
| AOTF29S50                |            | TO-220F        | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 29                 | 18         | 50                 |      | 150        |                                                   |      |      |      |          | 3.9             | 1312        | 2.5        | 26.6*      | 9.2*        | 28          | 103          |  |
| <b>TO-247</b>            |            |                |                     |                     |           |                |               |                     |                      |                    |            |                    |      |            |                                                   |      |      |      |          |                 |             |            |            |             |             |              |  |
| AOK5N100                 |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 1000                | 30                   | 4                  | 2.5        | 42                 |      | 4200       |                                                   |      |      |      |          | 4.5             | 950         | 6          | 19*        | 6.5*        | 27          | 50           |  |
| AOK9N90                  |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 900                 | 30                   | 9                  | 6          | 368                |      | 1300       |                                                   |      |      |      |          | 4.5             | 2130        | 14         | 46*        | 20.5*       | 45          | 116          |  |
| AOK10N90 <sup>(1)</sup>  |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 900                 | 30                   | 10                 | 7          | 403                |      | 980        |                                                   |      |      |      |          | 4.5             | 2630        | 18         | 60*        | 27*         | 64          | 155          |  |
| AOK8N80                  |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 800                 | 30                   | 7.4                | 4.6        | 50                 |      | 1630       |                                                   |      |      |      |          | 4.5             | 1375        | 11         | 26         | 9.1         | 35          | 69           |  |
| AOK18N65                 |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 650                 | 30                   | 18                 | 12         | 417                |      | 390        |                                                   |      |      |      |          | 4.5             | 3027        | 22         | 56*        | 19.6*       | 54          | 149          |  |
| AOK20N60                 |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 20                 | 12         | 417                |      | 370        |                                                   |      |      |      |          | 4.5             | 3061        | 22.8       | 61*        | 24*         | 57          | 128          |  |
| AOK20S60                 |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 20*                | 14*        | 266                |      | 199        |                                                   |      |      |      |          | 4.1             | 1038        | 2.1        | 19.8*      | 7.6*        | 27.5        | 87.5         |  |
| AOK27S60                 |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 27                 | 17         | 357                |      | 160        |                                                   |      |      |      |          | 4               | 1294        | 2.3        | 26*        | 8.8*        | 31          | 99           |  |
| AOK42S60                 |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 39                 | 25         | 417                |      | 99         |                                                   |      |      |      |          | 3.8             | 2154        | 2.7        | 40*        | 11.9*       | 38.5        | 136          |  |
| AOK53S60                 |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 53                 | 33         | 520                |      | 70         |                                                   |      |      |      |          | 3.8             | 3034        | 3          | 59*        | 19*         | 48          | 215          |  |
| AOK22N50                 |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 22                 | 15         | 417                |      | 260        |                                                   |      |      |      |          | 4.5             | 3086        | 24         | 69*        | 24*         | 60          | 124          |  |
| AOK29S50                 |            | TO-247         | Single              | High Voltage        | N         | No             | No            | 500                 | 30                   | 29                 | 18         | 357                |      | 150        |                                                   |      |      |      |          | 3.9             | 1312        | 2.5        | 26.6*      | 9.2*        | 28          | 103          |  |
| <b>TO-251</b>            |            |                |                     |                     |           |                |               |                     |                      |                    |            |                    |      |            |                                                   |      |      |      |          |                 |             |            |            |             |             |              |  |
| AOU7S65                  |            | TO-251         | Single              | High Voltage        | N         | No             | No            | 650                 | 30                   | 7                  | 5          | 89                 |      | 650        |                                                   |      |      |      |          | 4               | 434         | 17.5       | 9.2*       | 2.7*        | 21          | 55           |  |
| AOU1N60                  |            | TO-251         | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 1.3                | 0.8        | 45                 |      | 9000       |                                                   |      |      |      |          | 5               | 130         | 1.8        | 6.1        | 3.1         | 10          | 20           |  |
| AOU2N60                  |            | TO-251         | Single              | High Voltage        | N         | No             | No            | 600                 | 30                   | 2                  | 1.4        | 56.8               |      | 4400       |                                                   |      |      |      |          | 5               | 270         | 2.8        | 9.5        | 4.7         | 17.2        | 27           |  |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

| Part Number            |     | Package | Configuration | Popular Application | Type | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |      | P <sub>D</sub> (W) |      | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      |      |      | VGS(th) (max V) | Ciss (pF) | Crss (pF) | Qg* (nC) | Qgd (nC) | Td(on) (ns) | Td(off) (ns) |
|------------------------|-----|---------|---------------|---------------------|------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------|--------------------|------|---------------------------------------------------|------|------|------|------|------|-----------------|-----------|-----------|----------|----------|-------------|--------------|
|                        |     |         |               |                     |      |           |                |               |                     |                      | 25°C               | 70°C | 25°C               | 70°C | 10V                                               | 4.5V | 2.5V | 1.8V | 1.5V | 1.2V |                 |           |           |          |          |             |              |
| AOU2N60A               | NEW | TO-251  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 2                  | 1.4  | 57                 |      | 4700                                              |      |      |      |      |      | 4.5             | 295       | 2.3       | 6.5*     | 1.8*     | 16          | 28           |
| AOU3N60                |     | TO-251  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 2.5                | 1.6  | 56.8               |      | 3500                                              |      |      |      |      |      | 5               | 304       | 3.3       | 9.9      | 4.6      | 17          | 24           |
| AOU4N60                |     | TO-251  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 2.6  | 104                |      | 2300                                              |      |      |      |      |      | 4.5             | 528       | 4.8       | 12*      | 1.8*     | 18          | 34           |
| AOU4S60                |     | TO-251  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 3    | 56.8               |      | 900                                               |      |      |      |      |      | 4.1             | 263       | 0.75      | 6*       | 1.8*     | 18          | 40           |
| AOU3N50                |     | TO-251  | Single        | High Voltage        | N    | No        | No             |               | 500                 | 30                   | 2.8                | 1.8  | 57                 |      | 3000                                              |      |      |      |      |      | 4.7             | 276       | 2.6       | 6.7*     | 2.7*     | 11          | 20.5         |
| TO-251A                |     |         |               |                     |      |           |                |               |                     |                      |                    |      |                    |      |                                                   |      |      |      |      |      |                 |           |           |          |          |             |              |
| AOI7N65                |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 650                 | 30                   | 7                  | 4.3  | 178                |      | 1560                                              |      |      |      |      |      | 4.5             | 982       | 7         | 19.6*    | 8.2*     | 26          | 53           |
| AOI7S65                |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 650                 | 30                   | 7                  | 5    | 89                 |      | 650                                               |      |      |      |      |      | 4               | 434       | 17.5      | 9.2*     | 2.7*     | 21          | 55           |
| AOI1N60                |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 1.3                | 0.8  | 45                 |      | 9000                                              |      |      |      |      |      | 4.5             | 130       | 1.8       | 6.1      | 3.1      | 10          | 20           |
| AOI2N60                |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 2                  | 1.4  | 56.8               |      | 4400                                              |      |      |      |      |      | 4.5             | 270       | 2.8       | 9.5*     | 4.7*     | 17.2        | 27           |
| AOI2N60A               |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 2                  | 1.4  | 57                 |      | 4700                                              |      |      |      |      |      | 4.5             | 295       | 2.3       | 6.5*     | 1.8*     | 16          | 28           |
| AOI4N60                |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 2.6  | 104                |      | 2300                                              |      |      |      |      |      | 4.5             | 528       | 4.8       | 12*      | 4.4*     | 17          | 34           |
| AOI4S60                |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 3    | 56.8               |      | 900                                               |      |      |      |      |      | 4.1             | 263       | 0.75      | 6*       | 1.8*     | 18          | 40           |
| AOI4T60 <sup>(1)</sup> |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 2.5  | 83                 |      | 2100                                              |      |      |      |      |      | 5               | 460       | 3.5       | 9*       | 2.4*     | 20          | 25           |
| AOI4T60P               | NEW | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 2.4  | 83                 |      | 2100                                              |      |      |      |      |      | 4.2             | 522       | 2         | 8.3*     | 1.9*     | 21          | 25           |
| AOI7N60                |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 7                  | 4.5  | 187                |      | 1300                                              |      |      |      |      |      | 4.5             | 975       | 7.3       | 19.3*    | 6.9*     | 25          | 58           |
| AOI11S60               |     | TO-251A | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 11                 | 8.5  | 208                |      | 399                                               |      |      |      |      |      | 4.1             | 545       | 1.42      | 11*      | 3.8*     | 20          | 59           |
| AOI9N50                |     | TO-251A | Single        | General Purpose     | N    | No        | No             |               | 500                 | 30                   | 9                  | 5.7  | 187                |      | 800                                               |      |      |      |      |      | 4.5             | 630       | 5.7       | 13.1*    | 4.8*     | 17          | 25           |
| TO-251B                |     |         |               |                     |      |           |                |               |                     |                      |                    |      |                    |      |                                                   |      |      |      |      |      |                 |           |           |          |          |             |              |
| AOY2N60                | NEW | TO-251B | Single        | General Purpose     | N    | No        | No             |               | 600                 | 30                   | 2                  | 1.4  | 57                 |      | 4700                                              |      |      |      |      |      | 4.5             | 295       | 2.3       | 6.5*     | 1.8*     | 19          | 21.8         |
| TO-252                 |     |         |               |                     |      |           |                |               |                     |                      |                    |      |                    |      |                                                   |      |      |      |      |      |                 |           |           |          |          |             |              |
| AOD2N100               |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 1000                | 30                   | 2                  | 1.2  | 83                 |      | 9000                                              |      |      |      |      |      | 4.5             | 477       | 2.7       | 9.7*     | 3.5*     | 20          | 29           |
| AOD3N80                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 800                 | 30                   | 2.8                | 1.8  | 83                 |      | 4800                                              |      |      |      |      |      | 4.5             | 510       | 3.7       | 10*      | 2.9*     | 21          | 34           |
| AOD7N65                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 650                 | 30                   | 7                  | 4.3  | 178                |      | 1560                                              |      |      |      |      |      | 4.5             | 982       | 7         | 19.6*    | 8.2*     | 26          | 53           |
| AOD7S65                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 650                 | 30                   | 7                  | 5    | 89                 |      | 650                                               |      |      |      |      |      | 4               | 434       | 17.5      | 9.2*     | 2.7*     | 21          | 55           |
| AOD1N60                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 1.3                | 0.8  | 45                 |      | 9000                                              |      |      |      |      |      | 5               | 130       | 1.8       | 6.1      | 3.1      | 10          | 20           |
| AOD2N60                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 2                  | 1.4  | 56.8               |      | 4400                                              |      |      |      |      |      | 5               | 270       | 2.8       | 9.5      | 4.7      | 17.2        | 27           |
| AOD2N60A               |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 2                  | 1.4  | 57                 |      | 4700                                              |      |      |      |      |      | 4.5             | 295       | 2.3       | 6.5*     | 1.8*     | 16          | 28           |
| AOD3N60                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 2.5                | 1.6  | 56.8               |      | 3500                                              |      |      |      |      |      | 5               | 304       | 3.3       | 9.9      | 4.6      | 17          | 24           |
| AOD4N60                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 2.6  | 104                |      | 2300                                              |      |      |      |      |      | 4.5             | 528       | 4.8       | 12*      | 4.4*     | 17          | 34           |
| AOD4S60                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 3    | 56.8               |      | 900                                               |      |      |      |      |      | 4.1             | 263       | 0.75      | 6*       | 1.8*     | 18          | 40           |
| AOD4T60 <sup>(1)</sup> |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 2.5  | 83                 |      | 2100                                              |      |      |      |      |      | 5               | 460       | 3.5       | 9*       | 2.4*     | 20          | 25           |
| AOD4T60P               | NEW | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 4                  | 2.4  | 83                 |      | 2100                                              |      |      |      |      |      | 4.2             | 522       | 2         | 8.3*     | 1.9*     | 21          | 25           |
| AOD7N60                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 7                  | 4.5  | 178                |      | 1300                                              |      |      |      |      |      | 4.5             | 975       | 7.3       | 19.3*    | 6.9*     | 25          | 58           |
| AOD7S60                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 7                  | 5    | 83                 |      | 600                                               |      |      |      |      |      | 3.9             | 372       | 1.2       | 8.2*     | 2.8*     | 19          | 50           |
| AOD11S60               |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 600                 | 30                   | 11                 | 8.5  | 208                |      | 399                                               |      |      |      |      |      | 4.1             | 545       | 1.42      | 11*      | 3.8*     | 20          | 59           |
| AOD9N52                |     | TO-252  | Single        | General Purpose     | N    | No        | No             |               | 520                 | 30                   | 9                  | 5.7  | 178                |      | 860                                               |      |      |      |      |      | 4.5             | 962       | 8         | 19.5*    | 7.1*     | 24          | 55           |
| AOD3N50                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 500                 | 30                   | 2.8                | 1.8  | 57                 |      | 3000                                              |      |      |      |      |      | 4.7             | 276       | 2.6       | 6.7      | 2.7      | 11          | 20.5         |
| AOD5N50                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 500                 | 30                   | 5                  | 3.1  | 104                |      | 1600                                              |      |      |      |      |      | 4.5             | 538       | 4.5       | 11.5*    | 4.1*     | 18          | 34           |
| AOD6N50                |     | TO-252  | Single        | High Voltage        | N    | No        | No             |               | 500                 | 30                   | 5.3                | 3.3  | 104                |      | 1400                                              |      |      |      |      |      | 4.5             | 538       | 4.5       | 11.5*    | 4.1*     | 18          | 34           |
| AOD9N50                |     | TO-252  | Single        | General Purpose     | N    | No        | No             |               | 500                 | 30                   | 9                  | 5.7  | 178                |      | 800                                               |      |      |      |      |      | 4.5             | 630       | 5.7       | 13.1*    | 4.8*     | 17          | 25           |
| TO-262                 |     |         |               |                     |      |           |                |               |                     |                      |                    |      |                    |      |                                                   |      |      |      |      |      |                 |           |           |          |          |             |              |
| AOW7S65                |     | TO-262  | Single        | High Voltage        | N    | No        | No             |               | 650                 | 30                   | 7                  | 5    | 104                |      | 650                                               |      |      |      |      |      | 4               | 434       | 17.5      | 9.2*     | 2.7*     | 21          | 55           |
| AOW10N65               |     | TO-262  | Single        | High Voltage        | N    | No        | No             |               | 650                 | 30                   | 10                 | 6.2  | 250                |      | 1000                                              |      |      |      |      |      | 4.5             | 1369      | 10        | 27.7*    | 11.3*    | 30          | 74           |
| AOW11S65               |     | TO-262  | Single        | High Voltage        | N    | No        | No             |               | 650                 | 30                   | 11                 | 8    | 198                |      | 399                                               |      |      |      |      |      | 4               | 646       | 1.1       | 13.2*    | 4.3*     | 25          | 77           |
| AOW12N65               |     | TO-262  | Single        | High Voltage        | N    | No        | No             |               | 650                 | 30                   | 12                 | 7.7  | 278                |      | 720                                               |      |      |      |      |      | 4.5             | 1792      | 11.5      | 39.8*    | 16.8*    | 36          | 120          |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

| Part Number              | Package    | Configuration  | Popular Application | Type                | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |      | 10V        | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      |          |             | VGS(th) (max V) | Ciss (pF)  | Crss (pF)   | Qg* (nC)  | Qgd (nC)  | Td(on) (ns) | Td(off) (ns) |
|--------------------------|------------|----------------|---------------------|---------------------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|------|------------|---------------------------------------------------|------|------|------|----------|-------------|-----------------|------------|-------------|-----------|-----------|-------------|--------------|
|                          |            |                |                     |                     |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C |            | 4.5V                                              | 2.5V | 1.8V | 1.5V | 1.2V     |             |                 |            |             |           |           |             |              |
| AOW15S65                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 15                 | 10         | 208                |      | 290        |                                                   |      |      |      |          | 4           | 841             | 1.1        | 17.2*       | 5.6*      | 27        | 90          |              |
| AOW25S65                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 25                 | 16         | 357                |      | 190        |                                                   |      |      |      |          | 4           | 1278            | 1.4        | 26.4*       | 9.5*      | 29        | 112         |              |
| AOW4S60                  | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 4                  | 3          | 83                 |      | 900        |                                                   |      |      |      |          | 4.1         | 263             | 0.75       | 6*          | 1.8*      | 18        | 40          |              |
| AOW7S60                  | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 7                  | 5          | 104                |      | 600        |                                                   |      |      |      |          | 3.9         | 372             | 1.2        | 8.2*        | 2.8*      | 19        | 50          |              |
| AOW10N60                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 10                 | 7.2        | 250                |      | 750        |                                                   |      |      |      |          | 4.5         | 1320            | 9.3        | 31*         | 14.4*     | 28        | 76          |              |
| <b>AOW10T60P</b>         | <b>NEW</b> | <b>TO-262</b>  | <b>Single</b>       | <b>High Voltage</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>600</b>          | <b>30</b>            | <b>10</b>          | <b>6.6</b> | <b>208</b>         |      | <b>700</b> |                                                   |      |      |      | <b>5</b> | <b>1595</b> | <b>11</b>       | <b>26*</b> | <b>8.2*</b> | <b>42</b> | <b>52</b> |             |              |
| AOW11N60                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 11                 | 8          | 272                |      | 700        |                                                   |      |      |      |          | 4.5         | 1656            | 11.2       | 30.6*       | 9.6*      | 39        | 92          |              |
| AOW11S60                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 11                 | 8          | 178                |      | 399        |                                                   |      |      |      |          | 4.1         | 545             | 1.42       | 11*         | 3.8*      | 20        | 59          |              |
| AOW12N60                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 12                 | 9.7        | 278                |      | 550        |                                                   |      |      |      |          | 4.5         | 1751            | 13         | 40*         | 17.9*     | 39        | 122         |              |
| AOW15S60                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 15                 | 10         | 208                |      | 290        |                                                   |      |      |      |          | 3.8         | 717             | 1.3        | 15.6*       | 6*        | 24.5      | 84          |              |
| AOW20C60 <sup>(1)</sup>  | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 20                 | 11         | 463                |      | 250        |                                                   |      |      |      |          | 5           | 3440            | 5          | 52*         | 14*       | 74        | 100         |              |
| AOW20S60                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 20                 | 14         | 266                |      | 199        |                                                   |      |      |      |          | 4.1         | 1038            | 2.1        | 19.8*       | 7.6*      | 27.5      | 87.5        |              |
| AOW12N50                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 12                 | 8.4        | 250                |      | 520        |                                                   |      |      |      |          | 4.5         | 1361            | 12.6       | 30.7*       | 13*       | 29        | 82          |              |
| AOW14N50                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 14                 | 11         | 278                |      | 380        |                                                   |      |      |      |          | 4.5         | 1914            | 16         | 42.8*       | 20.3*     | 44        | 92          |              |
| AOW29S50                 | TO-262     | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 29                 | 18         | 357                |      | 150        |                                                   |      |      |      |          | 3.9         | 1312            | 2.5        | 26.6*       | 9.2*      | 28        | 103         |              |
| <b>TO-262F</b>           |            |                |                     |                     |           |                |               |                     |                      |                    |            |                    |      |            |                                                   |      |      |      |          |             |                 |            |             |           |           |             |              |
| AOWF9N70                 | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 700                 | 30                   | 9                  | 5.8        | 28                 |      | 1200       |                                                   |      |      |      |          | 4.5         | 1357            | 7.4        | 28.5*       | 11.6*     | 35        | 76          |              |
| AOWF11N70                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 700                 | 30                   | 11                 | 7.2        | 28                 |      | 870        |                                                   |      |      |      |          | 4.5         | 1793            | 10.5       | 37.5*       | 15*       | 42        | 103         |              |
| AOWF7S65                 | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 7                  | 5          | 25                 |      | 650        |                                                   |      |      |      |          | 4           | 434             | 17.5       | 9.2*        | 2.7*      | 21        | 55          |              |
| AOWF10N65                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 10                 | 6.2        | 28                 |      | 1000       |                                                   |      |      |      |          | 4.5         | 1369            | 10         | 27.7        | 11.3      | 30        | 74          |              |
| AOWF11S65                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 11                 | 8          | 28                 |      | 399        |                                                   |      |      |      |          | 4           | 646             | 1.1        | 13.2*       | 4.3*      | 25        | 77          |              |
| AOWF12N65                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 12*                | 7.7*       | 28                 |      | 720        |                                                   |      |      |      |          | 4.5         | 1792            | 11.5       | 39.8*       | 16.8*     | 36        | 120         |              |
| AOWF15S65                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 15                 | 10         | 28                 |      | 290        |                                                   |      |      |      |          | 4           | 841             | 1.1        | 17.2*       | 5.3*      | 27        | 90          |              |
| AOWF25S65                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 25                 | 16         | 28                 |      | 190        |                                                   |      |      |      |          | 4           | 1278            | 1.4        | 26.4*       | 9.5*      | 29        | 112         |              |
| AOWF4N60                 | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 4                  | 2.6        | 25                 |      | 2300       |                                                   |      |      |      |          | 4.5         | 528             | 4.8        | 12          | 4.4       | 17        | 34          |              |
| AOWF4S60                 | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 4                  | 3          | 83                 |      | 900        |                                                   |      |      |      |          | 4.1         | 263             | 0.75       | 6*          | 1.8*      | 18*       | 40          |              |
| AOWF7S60                 | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 7                  | 5          | 25                 |      | 600        |                                                   |      |      |      |          | 3.9         | 372             | 1.2        | 8.2*        | 2.8*      | 19        | 50          |              |
| AOWF10N60                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 10                 | 7.2        | 28                 |      | 750        |                                                   |      |      |      |          | 4.5         | 1320            | 9.3        | 31*         | 14.4*     | 28        | 76          |              |
| <b>AOWF10T60P</b>        | <b>NEW</b> | <b>TO-262F</b> | <b>Single</b>       | <b>High Voltage</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>600</b>          | <b>30</b>            | <b>10</b>          | <b>6.6</b> | <b>28</b>          |      | <b>700</b> |                                                   |      |      |      | <b>5</b> | <b>1595</b> | <b>11</b>       | <b>26*</b> | <b>8.2*</b> | <b>42</b> | <b>52</b> |             |              |
| AOWF11C60 <sup>(1)</sup> | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 11*                | 8*         | 28                 |      | 400        |                                                   |      |      |      |          | 5           | 2000            | 2.8        | 30*         | 7*        | 50        | 70          |              |
| AOWF11N60                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 11                 | 8          | 27.8               |      | 650        |                                                   |      |      |      |          | 4.5         | 1656            | 11.2       | 30.6*       | 9.6*      | 39        | 92          |              |
| AOWF11S60                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 11*                | 8*         | 28                 |      | 399        |                                                   |      |      |      |          | 4.1         | 545             | 1.42       | 11*         | 3.8*      | 20        | 59          |              |
| AOWF12N60                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 12*                | 9.7*       | 28                 |      | 550        |                                                   |      |      |      |          | 4.5         | 1751            | 13         | 40*         | 17.9*     | 39        | 122         |              |
| <b>AOWF12T60P</b>        | <b>NEW</b> | <b>TO-262F</b> | <b>Single</b>       | <b>High Voltage</b> | <b>N</b>  | <b>No</b>      | <b>No</b>     | <b>600</b>          | <b>30</b>            | <b>12*</b>         | <b>9*</b>  | <b>28</b>          |      | <b>520</b> |                                                   |      |      |      | <b>5</b> | <b>2028</b> | <b>13</b>       | <b>33*</b> | <b>10*</b>  | <b>52</b> | <b>66</b> |             |              |
| AOWF15S60                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 15                 | 10         | 27.8               |      | 290        |                                                   |      |      |      |          | 3.8         | 717             | 1.3        | 15.6        | 6         | 24.5      | 84          |              |
| AOWF20S60                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 20*                | 14*        | 28                 |      | 199        |                                                   |      |      |      |          | 4.1         | 1038            | 2.1        | 19.8*       | 7.6*      | 27.5      | 87.5        |              |
| AOWF8N50                 | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 8                  | 6          | 27.8               |      | 850        |                                                   |      |      |      |          | 4.5         | 868             | 7.8        | 23.6*       | 10.6*     | 19.5      | 51.5        |              |
| AOWF12N50                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 12*                | 8.4*       | 28                 |      | 520        |                                                   |      |      |      |          | 4.5         | 1361            | 12.6       | 30.7*       | 13*       | 29        | 82          |              |
| AOWF14N50                | TO-262F    | Single         | High Voltage        | N                   | No        | No             |               | 500                 | 30                   | 14*                | 11*        | 28                 |      | 380        |                                                   |      |      |      |          | 4.5         | 1914            | 16         | 42.8*       | 20.3*     | 44        | 92          |              |
| <b>TO-263</b>            |            |                |                     |                     |           |                |               |                     |                      |                    |            |                    |      |            |                                                   |      |      |      |          |             |                 |            |             |           |           |             |              |
| AOB7S65                  | TO-263     | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 7                  | 5          | 104                |      | 650        |                                                   |      |      |      |          | 4           | 434             | 17.5       | 9.2*        | 2.7*      | 21        | 55          |              |
| AOB11S65                 | TO-263     | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 11                 | 8          | 198                |      | 399        |                                                   |      |      |      |          | 4           | 646             | 1.1        | 13.2*       | 4.3*      | 25        | 77          |              |
| AOB15S65                 | TO-263     | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 15                 | 10         | 204                |      | 290        |                                                   |      |      |      |          | 4           | 841             | 1.1        | 17.2*       | 5.3*      | 27        | 90          |              |
| AOB25S65                 | TO-263     | Single         | High Voltage        | N                   | No        | No             |               | 650                 | 30                   | 25                 | 16         | 357                |      | 190        |                                                   |      |      |      |          | 4           | 1320            | 1.4        | 26.4*       | 9.5*      | 29        | 112         |              |
| AOB4S60                  | TO-263     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 4                  | 3          | 83                 |      | 900        |                                                   |      |      |      |          | 4.1         | 263             | 0.75       | 6*          | 1.8*      | 18        | 40          |              |
| AOB7S60                  | TO-263     | Single         | High Voltage        | N                   | No        | No             |               | 600                 | 30                   | 7                  | 5          | 104                |      | 600        |                                                   |      |      |      |          | 3.9         | 372             | 1.2        | 8.2         | 2.8*      | 19        | 50          |              |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

High Voltage MOSFETs (Continued)

| Part Number             | Package    | Configuration | Popular Application | Type     | ESD Diode | Schottky Diode | Schottky Type | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) | I <sub>D</sub> (A) |            | P <sub>D</sub> (W) |      | 10V        | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      |      | V <sub>GS(th)</sub> (max V) | C <sub>iss</sub> (pF) | C <sub>rss</sub> (pF) | Q <sub>g</sub> * (nC) | Q <sub>gd</sub> (nC) | T <sub>d(on)</sub> (ns) | T <sub>d(off)</sub> (ns) |
|-------------------------|------------|---------------|---------------------|----------|-----------|----------------|---------------|---------------------|----------------------|--------------------|------------|--------------------|------|------------|---------------------------------------------------|------|------|------|------|-----------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------|--------------------------|
|                         |            |               |                     |          |           |                |               |                     |                      | 25°C               | 70°C       | 25°C               | 70°C |            | 4.5V                                              | 2.5V | 1.8V | 1.5V | 1.2V |                             |                       |                       |                       |                      |                         |                          |
| AOB10N60                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 10                 | 7.2        | 250                | 2    | 750        |                                                   |      |      |      |      | 4.5                         | 1320                  | 9.3                   | 31                    | 14.4                 | 28                      | 76                       |
| <b>AOB10T60P</b>        | <b>NEW</b> | <b>TO-263</b> | <b>Single</b>       | <b>N</b> | <b>No</b> | <b>No</b>      |               | <b>600</b>          | <b>30</b>            | <b>10</b>          | <b>6.6</b> | <b>208</b>         |      | <b>700</b> |                                                   |      |      |      |      | <b>5</b>                    | <b>1595</b>           | <b>11</b>             | <b>23*</b>            | <b>8.2*</b>          | <b>42</b>               | <b>52</b>                |
| AOB11C60 <sup>(1)</sup> | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 11                 | 9          | 50                 |      | 400        |                                                   |      |      |      |      | 5                           | 2010                  | 2.4                   | 30*                   | 7*                   | 50                      | 70                       |
| AOB11N60                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 11                 | 8          | 272                |      | 700        |                                                   |      |      |      |      | 4.5                         | 1656                  | 11.2                  | 30.6*                 | 9.6*                 | 39                      | 92                       |
| AOB11S60                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 11                 | 8          | 178                | 1.4  | 399        |                                                   |      |      |      |      | 4.1                         | 545                   | 1.42                  | 11*                   | 3.8*                 | 20                      | 59                       |
| AOB12N60FD              | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 12                 | 8          | 278                |      | 650        |                                                   |      |      |      |      | 4                           | 1659                  | 15.8                  | 41*                   | 19*                  | 34                      | 120                      |
| <b>AOB12T60P</b>        | <b>NEW</b> | <b>TO-263</b> | <b>Single</b>       | <b>N</b> | <b>No</b> | <b>No</b>      |               | <b>600</b>          | <b>30</b>            | <b>12</b>          | <b>9</b>   | <b>250</b>         |      | <b>520</b> |                                                   |      |      |      |      | <b>5</b>                    | <b>2028</b>           | <b>2.2</b>            | <b>33*</b>            | <b>10*</b>           | <b>52</b>               | <b>66</b>                |
| AOB15S60                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 15                 | 10         | 208                |      | 290        |                                                   |      |      |      |      | 3.8                         | 717                   | 1.3                   | 15.6*                 | 6*                   | 24.5                    | 84                       |
| AOB20C60 <sup>(1)</sup> | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 20                 | 11         | 463                |      | 250        |                                                   |      |      |      |      | 5                           | 3500                  | 4                     | 52*                   | 14*                  | 74                      | 100                      |
| AOB20S60                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 20                 | 14         | 266                |      | 199        |                                                   |      |      |      |      | 4.1                         | 1038                  | 2.1                   | 19.8*                 | 7.6*                 | 27.5                    | 87.5                     |
| AOB27S60                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 27                 | 17         | 357                |      | 160        |                                                   |      |      |      |      | 4                           | 1294                  | 2.3                   | 26*                   | 8.8*                 | 31                      | 99                       |
| AOB42S60                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 600                 | 30                   | 37                 | 23         | 417                |      | 109        |                                                   |      |      |      |      | 3.8                         | 2154                  | 2.7                   | 40*                   | 11.9*                | 38.5                    | 136                      |
| AOB12N50                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 500                 | 30                   | 12                 | 8.4        | 250                |      | 520        |                                                   |      |      |      |      | 4.5                         | 1361                  | 12.6                  | 30.7                  | 13                   | 29                      | 82                       |
| AOB14N50                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 500                 | 30                   | 14                 | 11         | 278                |      | 380        |                                                   |      |      |      |      | 4.5                         | 1914                  | 16                    | 42.8                  | 29                   | 44                      | 92                       |
| AOB29S50                | TO-263     | Single        | High Voltage        | N        | No        | No             |               | 500                 | 30                   | 29                 | 18         | 357                |      | 150        |                                                   |      |      |      |      | 3.9                         | 1312                  | 2.5                   | 26.6*                 | 9.2*                 | 28                      | 103                      |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

Insulated-Gate Bipolar Transistors (IGBTs)

| Part Number        | Package    | Configuration                 | V <sub>CE</sub> (max)<br>(V)         | I <sub>C</sub> (max) (A) |            | V <sub>CE(sat)</sub> (typ)<br>(V) | E <sub>ON</sub> (typ)<br>(mJ) | E <sub>OFF</sub> (typ)<br>(mJ) | Qg (typ)<br>(nC) | V <sub>F</sub> (typ)<br>(V) | Qrr (typ)<br>(μs) | I <sub>rm</sub> (typ)<br>(A) |            |
|--------------------|------------|-------------------------------|--------------------------------------|--------------------------|------------|-----------------------------------|-------------------------------|--------------------------------|------------------|-----------------------------|-------------------|------------------------------|------------|
|                    |            |                               |                                      | 25°C                     | 100°C      |                                   |                               |                                |                  |                             |                   |                              |            |
| TO-220             |            |                               |                                      |                          |            |                                   |                               |                                |                  |                             |                   |                              |            |
| AOT5B60D           | TO-220     | IGBT with Anti-Parallel Diode | 600                                  | 10                       | 5          | 1.55                              | 0.14                          | 0.04                           | 9.4              | 1.46                        | 0.23              | 4.4                          |            |
| AOT10B60D          | TO-220     | IGBT with Anti-Parallel Diode | 600                                  | 20                       | 10         | 1.53                              | 0.26                          | 0.07                           | 17.4             | 1.52                        | 0.25              | 5                            |            |
| AOT15B60D          | TO-220     | IGBT with Anti-Parallel Diode | 600                                  | 30                       | 15         | 1.6                               | 0.42                          | 0.11                           | 25.4             | 1.43                        | 0.48              | 5.8                          |            |
| TO-220F            |            |                               |                                      |                          |            |                                   |                               |                                |                  |                             |                   |                              |            |
| AOTF5B60D          | TO-220F    | IGBT with Anti-Parallel Diode | 600                                  | 10                       | 5          | 1.55                              | 0.14                          | 0.04                           | 9.4              | 1.46                        | 0.23              | 4.4                          |            |
| AOTF10B60D         | TO-220F    | IGBT with Anti-Parallel Diode | 600                                  | 20                       | 10         | 1.53                              | 0.26                          | 0.07                           | 17.4             | 1.52                        | 0.25              | 5                            |            |
| <b>AOTF10B60D2</b> | <b>NEW</b> | <b>TO-220F</b>                | <b>IGBT with Anti-Parallel Diode</b> | <b>600</b>               | <b>23</b>  | <b>10</b>                         | <b>1.55</b>                   | <b>0.14</b>                    | <b>0.04</b>      | <b>9.4</b>                  | <b>1.46</b>       | <b>0.23</b>                  | <b>4.4</b> |
| AOTF15B60D         | TO-220F    | IGBT with Anti-Parallel Diode | 600                                  | 30                       | 15         | 1.6                               | 0.42                          | 0.11                           | 25.4             | 1.43                        | 0.48              | 5.8                          |            |
| <b>AOTF15B60D2</b> | <b>NEW</b> | <b>TO-220F</b>                | <b>IGBT with Anti-Parallel Diode</b> | <b>600</b>               | <b>23</b>  | <b>15</b>                         | <b>1.53</b>                   | <b>0.26</b>                    | <b>0.07</b>      | <b>17.4</b>                 | <b>1.52</b>       | <b>0.25</b>                  | <b>5</b>   |
| TO-247             |            |                               |                                      |                          |            |                                   |                               |                                |                  |                             |                   |                              |            |
| <b>AOK20B135D1</b> | <b>NEW</b> | <b>TO-247</b>                 | <b>IGBT with Anti-Parallel Diode</b> | <b>1350</b>              | <b>40</b>  | <b>20</b>                         | <b>1.57</b>                   | <b>1.05</b>                    | <b>66</b>        | <b>1.46</b>                 |                   |                              |            |
| AOK10B60D          | TO-247     | IGBT with Anti-Parallel Diode | 600                                  | 20                       | 10         | 1.53                              | 0.32                          | 0.07                           | 17.4             | 1.52                        | 0.25              | 5                            |            |
| AOK15B60D          | TO-247     | IGBT with Anti-Parallel Diode | 600                                  | 30                       | 15         | 1.6                               | 0.51                          | 0.11                           | 25.4             | 1.43                        | 0.48              | 5.8                          |            |
| AOK20B60D1         | TO-247     | IGBT with Anti-Parallel Diode | 600                                  | 40                       | 20         | 1.85                              | 0.76                          | 0.18                           | 24.6             | 1.35                        | 0.43              | 6.5                          |            |
| AOK30B60D          | TO-247     | IGBT with Anti-Parallel Diode | 600                                  | 60                       | 30         | 1.6                               | 1.18                          | 0.20                           | 47               | 1.34                        | 0.80              | 9.5                          |            |
| AOK30B60D1         | TO-247     | IGBT with Anti-Parallel Diode | 600                                  | 60                       | 30         | 1.85                              | 1.10                          | 0.24                           | 34               | 1.47                        | 0.50              | 7                            |            |
| AOK40B60D          | TO-247     | IGBT with Anti-Parallel Diode | 600                                  | 80                       | 40         | 1.6                               | 1.72                          | 0.30                           | 63.5             | 1.36                        | 0.86              | 10                           |            |
| AOK40B60D1         | TO-247     | IGBT with Anti-Parallel Diode | 600                                  | 80                       | 40         | 1.85                              | 1.55                          | 0.30                           | 45               | 1.42                        | 0.63              | 8                            |            |
| AOK50B60D1         | TO-247     | IGBT with Anti-Parallel Diode | 600                                  | 100                      | 50         | 1.85                              | 2.37                          | 0.50                           | 64               | 1.40                        | 0.77              | 9                            |            |
| AOK60B60D1         | TO-247     | IGBT with Anti-Parallel Diode | 600                                  | 120                      | 60         | 1.55                              | 3.10                          | 0.73                           | 75               | 1.34                        | 0.84              | 10                           |            |
| <b>AOK75B60D1</b>  | <b>NEW</b> | <b>TO-247</b>                 | <b>IGBT with Anti-Parallel Diode</b> | <b>600</b>               | <b>150</b> | <b>75</b>                         | <b>1.72</b>                   | <b>3.7</b>                     | <b>1.3</b>       | <b>118</b>                  | <b>1.44</b>       | <b>0.9</b>                   | <b>10</b>  |
| TO-252             |            |                               |                                      |                          |            |                                   |                               |                                |                  |                             |                   |                              |            |
| AOD5B60D           | TO-252     | IGBT with Anti-Parallel Diode | 600                                  | 10                       | 5          | 1.6                               | 0.14                          | 0.04                           | 9.4              | 1.46                        | 0.23              | 4.4                          |            |
| TO-263             |            |                               |                                      |                          |            |                                   |                               |                                |                  |                             |                   |                              |            |
| AOB5B60D           | TO-263     | IGBT with Anti-Parallel Diode | 600                                  | 10                       | 5          | 1.55                              | 0.18                          | 0.09                           | 9.4              | 1.46                        | 0.23              | 4.4                          |            |
| AOB10B60D          | TO-263     | IGBT with Anti-Parallel Diode | 600                                  | 20                       | 10         | 1.6                               | 0.26                          | 0.07                           | 17.4             | 1.52                        | 0.25              | 5                            |            |
| AOB15B60D          | TO-263     | IGBT with Anti-Parallel Diode | 600                                  | 30                       | 15         | 1.6                               | 0.42                          | 0.11                           | 25.4             | 1.43                        | 0.48              | 5.8                          |            |

1. Not recommended for new designs. Please contact your local sales office for replacement part, if any.

\* Qg measured with Vgs = 10V. In all other cases Vgs = 4.5V.

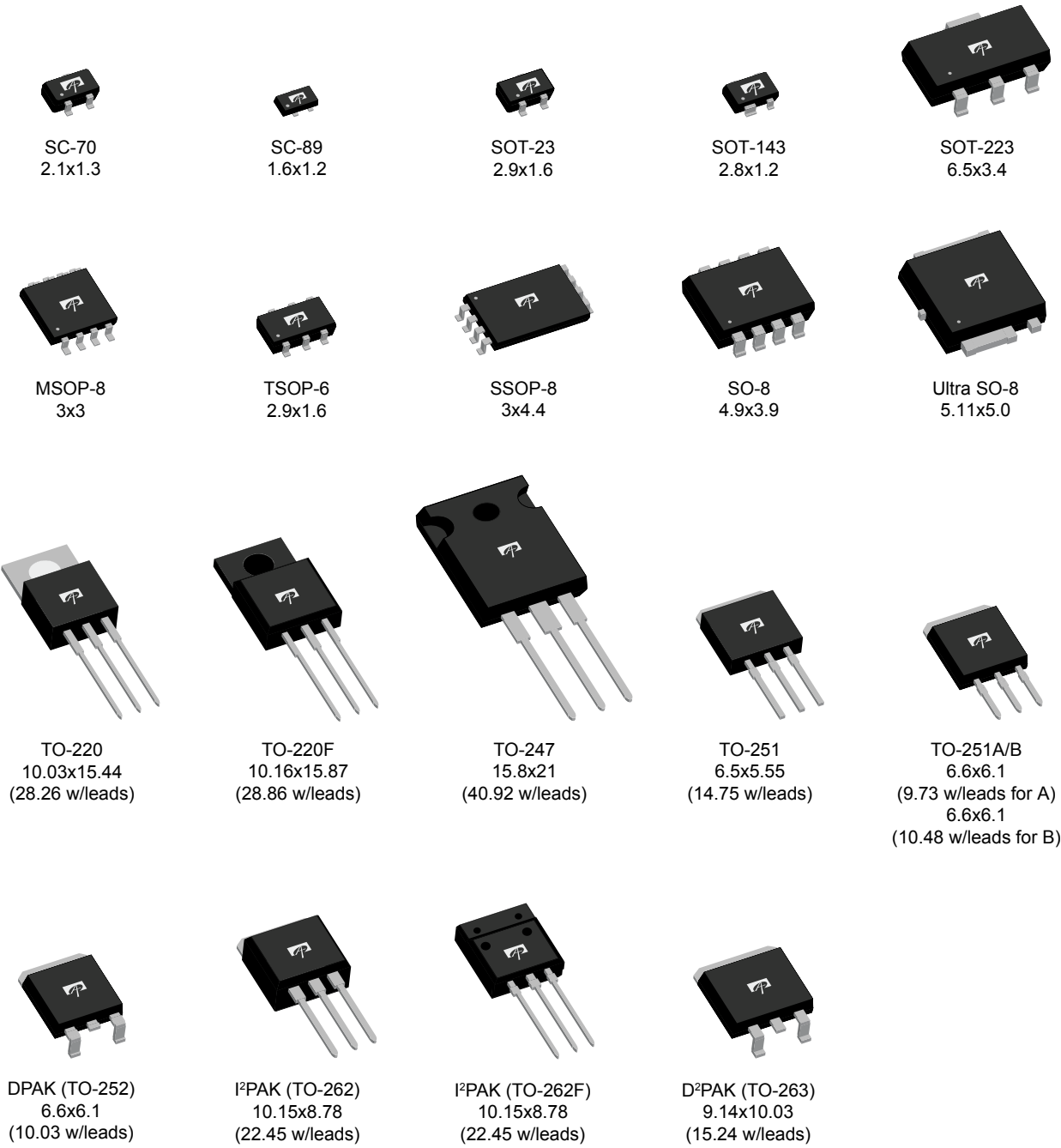
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