



# Selector Guide

## Summer/Fall 2019


*Powering a Greener Future™*

## 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, IPM, HVIC, GaN/SiC, TVS, Power IC, Digital Power, and Automotive 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' products are aimed at, but not limited to applications such as portable computers, flat panel TVs, LED lighting, smart phones, battery packs, consumer and industrial motor controls and power supplies for TVs, computers, servers and telecommunications equipment.



MARKET SEGMENTS					
	Computing / Conventional	Computing / Advanced	Consumer	Communications	Industrial / Power Supplies
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><li>■ Docking Stations</li><li>■ Computer Monitors</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>■ Quick Charger</li><li>■ TV DC-DC Conversion</li><li>■ LED Drivers</li><li>■ LED Backlighting</li><li>■ Home Appliances</li><li>■ Induction Heating</li></ul>	<ul style="list-style-type: none"><li>■ Mobile Phones</li><li>■ Networking</li><li>■ Battery Packs</li></ul>	<ul style="list-style-type: none"><li>■ Motor Controls</li><li>■ Power Supplies</li><li>■ Telecom Power</li><li>■ Lighting</li><li>■ Welding</li><li>■ PV Inverters</li></ul>
KEY FAMILIES / PLATFORMS	<ul style="list-style-type: none"><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen5+</li><li>- XSFET™ Family</li><li>- AlphaSGT2</li><li>- Load Switch</li></ul></li><li>■ Power ICs<ul style="list-style-type: none"><li>- DC-DC EZBuck™</li><li>- DrMOS</li><li>- Smart Load Management</li><li>- Type C PD</li></ul></li><li>■ Digital Power<ul style="list-style-type: none"><li>- Controller</li><li>- SPS</li></ul></li><li>■ TVS<ul style="list-style-type: none"><li>- ESD TVS</li><li>- Surge TVS</li></ul></li></ul>	<ul style="list-style-type: none"><li>■ Power ICs<ul style="list-style-type: none"><li>- DC-DC EZBuck™</li><li>- DrMOS</li><li>- Smart Load Management</li><li>- Type C PD</li></ul></li><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen5+</li><li>- XSFET™ Family</li><li>- AlphaSGT2</li><li>- AlphaDFN™</li></ul></li><li>■ αGaN™</li><li>■ Digital Power<ul style="list-style-type: none"><li>- Controller</li><li>- SPS</li></ul></li><li>■ TVS<ul style="list-style-type: none"><li>- ESD TVS</li><li>- Surge TVS</li></ul></li></ul>	<ul style="list-style-type: none"><li>■ Power ICs<ul style="list-style-type: none"><li>- DC-DC EZBuck™</li><li>- AC/DC</li><li>- Smart Load Management</li></ul></li><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen5+</li><li>- AlphaSGT2</li></ul></li><li>■ High Voltage Super Junction MOSFETs<ul style="list-style-type: none"><li>- 600V αMOS5™</li><li>- 700V αMOS5™</li></ul></li><li>■ αGaN™</li><li>■ IPMs<ul style="list-style-type: none"><li>- 600V IPM</li></ul></li><li>■ IGBTs<ul style="list-style-type: none"><li>- 650V IGBT/FRD</li><li>- 1200V &amp; 1350V IGBT/FRD</li></ul></li><li>■ TVS<ul style="list-style-type: none"><li>- ESD TVS</li><li>- Surge TVS</li></ul></li></ul>	<ul style="list-style-type: none"><li>■ Power ICs<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>- Gen5+</li><li>- XSFET™ Family</li><li>- AlphaSGT2</li><li>- AlphaDFN™</li></ul></li><li>■ TVS<ul style="list-style-type: none"><li>- ESD TVS</li><li>- Surge TVS</li></ul></li></ul>	<ul style="list-style-type: none"><li>■ Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- AlphaSGT2</li></ul></li><li>■ High Voltage Super Junction MOSFETs<ul style="list-style-type: none"><li>- 600V αMOS5™</li><li>- 700V αMOS5™</li></ul></li><li>■ αGaN™</li><li>■ IPMs<ul style="list-style-type: none"><li>- 600V IPM</li></ul></li><li>■ IGBTs<ul style="list-style-type: none"><li>- 650V IGBT/FRD</li></ul></li></ul>





## AOS SALES OFFICES

### UNITED STATES

475 Oakmead Parkway  
Sunnyvale, CA 94085  
Phone: +1 (408) 830-9742  
Fax: +1 (408) 830-9749  
Email: [Inquiries@aosmd.com](mailto:Inquiries@aosmd.com)

### EUROPE

Phone: + 44 7785 575089  
Email: [Ewilliams@aosmd.com](mailto:Ewilliams@aosmd.com)

### HONG KONG

Room 701, Tesbury Center  
28 Queen's Road East  
Wanchai  
Phone: +86 (755) 8351-7733  
Email: [AOSChina@aosmd.com](mailto:AOSChina@aosmd.com)

### TAIWAN

9/F, No. 292 Yangguang Street  
Neihu District  
Taipei City 11491  
Phone: +886 (2) 8751-5616  
Fax: +886 (2) 2627-4762  
Email: [AOSTaiwan@aosmd.com](mailto:AOSTaiwan@aosmd.com)

### CHINA

#### Shenzhen

East 10/F, Matsunichi Building  
#9996 Shennan Blvd.  
Shenzhen 518057  
Phone: +86 (755) 8351-7733  
Fax: +86 (755) 835-15883  
Email: [AOSChina@aosmd.com](mailto:AOSChina@aosmd.com)

#### Shanghai

Room 1002-1005, Tower 1,  
Kerry EverBright City  
218 Tianmu West Road  
Shanghai 200070  
Phone: +86 (21) 6353-3218  
Fax: +86 (21) 6353-9339  
Email: [AOSChina@aosmd.com](mailto:AOSChina@aosmd.com)

#### Beijing

Phone: +86 (186) 1126-3304  
Email: [Qsbi@aosmd.com](mailto:Qsbi@aosmd.com)

#### Chengdu

Phone: +86 (180) 1112-2993  
Email: [Zhongwu@aosmd.com](mailto:Zhongwu@aosmd.com)

#### Qingdao

Phone: +86 (180) 0532-0539  
Email: [Yszhang@aosmd.com](mailto:Yszhang@aosmd.com)

### JAPAN

5F, Yurakucho Building  
1-10-1 Yurakucho  
Chiyoda-ku  
Tokyo 102-0083  
Phone: +81 (3) 6826-1401  
Email: [AOSJapan@aosmd.com](mailto:AOSJapan@aosmd.com)

### SOUTH KOREA

10th Floor, Bandi Building  
Bongeunsa-ro 114  
Gangnam-gu  
Seoul 135-907  
Phone: +82 (2) 557-8501  
Fax: +82 (2) 557-8420  
Email: [AOSKorea@aosmd.com](mailto:AOSKorea@aosmd.com)

### ASEAN

Email: [AOSAsean@aosmd.com](mailto:AOSAsean@aosmd.com)

To contact any of our sales partners  
worldwide, please visit our website  
at: [www.aosmd.com/contact](http://www.aosmd.com/contact)



## DIVERSE CUSTOMER BASE

Telecom	Consumer		Computing	Industrial
	Black Goods	White Goods		
<ul style="list-style-type: none"> <li>Alcatel-Lucent</li> <li>Belfuse</li> <li>Delta</li> <li>Efore</li> <li>Emerson</li> <li>H3C</li> <li>Murata</li> <li>Nokia Siemens Networks</li> <li>ZTE</li> </ul>	<ul style="list-style-type: none"> <li>Changhong</li> <li>Hisense</li> <li>LG</li> <li>Panasonic</li> <li>Samsung</li> <li>Sony</li> <li>TCL</li> </ul>	<ul style="list-style-type: none"> <li>Changhong</li> <li>Cuckoo</li> <li>Haier</li> <li>Hisense</li> <li>Microsteps</li> <li>Midea</li> <li>Nidec</li> <li>Panasonic</li> <li>Samsung</li> <li>Sanyo</li> </ul>	<ul style="list-style-type: none"> <li>Acer</li> <li>Asus</li> <li>Dell</li> <li>Hewlett Packard</li> <li>Lenovo</li> <li>Nvidia</li> </ul>	<ul style="list-style-type: none"> <li>BYD</li> <li>Chicony</li> <li>Delta</li> <li>Emerson</li> <li>Lite-On</li> <li>Nidec</li> <li>Philips</li> <li>Stanley Black &amp; Decker</li> <li>Tyco</li> </ul>

## AOS, APM, JIREH AND CQAOS PLANTS HAVE PASSED MANY QS CERIFICATIONS WHICH INCLUDE THE FOLLOWING:

- ISO 9001 (Quality Manangement System)
- ISO 14001 (Environmental Manangement System)
- QC 080000 (Hazardous Substance Manangement System)
- Sony's Green Partner Program
- ISO 14064 (Greenhouse Gasses)
- IATF 16949 (Automotive)

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## POWER ICs

AOS provides best-in-class power management solutions combining Power Discrete and IC technologies. The portfolio of products includes EZBuck™ Step-down DC/DC regulators, DrMOS Power Modules, ECPower™ Type C Protection

### DC-DC Buck Regulators – Synchronous EZBuck™ Family

Part Number	Description	PGOOD	Soft Start
AOZ1022DI-01	3A EZBuck Regulator with PGOOD	Yes	Internal - 4ms
AOZ1037PI	5A EZBuck Regulator with PGOOD	Yes	Internal - 3ms
AOZ1037PI-01	3A EZBuck Regulator with PGOOD	Yes	Internal - 3ms
<b>AOZ2140DI</b>	<b>3A COT EZBuck Regulator with 4A Load Switch</b>	<b>Yes</b>	<b>Internal - 4ms</b>
AOZ2150EQI-30	3A EZBuck with Light Load Mode	No	Adjustable
AOZ2151EQI-30	4A COT EZBuck Regulator with Light Load Mode	No	Adjustable
AOZ2151EQI-31	4A COT EZBuck Regulator	No	Adjustable
AOZ2151PQI-03	4A COT EZBuck Regulator	No	Adjustable
AOZ2151PQI-05	4A COT EZBuck Regulator	No	Adjustable
AOZ2151PQI-10	4A COT EZBuck Regulator	No	Adjustable
AOZ2151QI-01	4A COT EZBuck Regulator	Yes	Adjustable
AOZ2151TQI-19	4A COT EZBuck Regulator	Yes	Adjustable
AOZ2152EQI-28	6A COT EZBuck Regulator with Light Load Mode	No	Adjustable
AOZ2152EQI-29	6A COT EZBuck Regulator	No	Adjustable
AOZ2152EQI-30	6A COT EZBuck Regulator with Light Load Mode	No	Adjustable
AOZ2152EQI-31	6A COT EZBuck Regulator	No	Adjustable
AOZ2152TQI-19	6A COT EZBuck Regulator	Yes	Adjustable
AOZ2153EQI-30	8A COT EZBuck Regulator with Light Load Mode	No	Adjustable
AOZ2153PQI-04	8A COT EZBuck Regulator	No	Adjustable
AOZ2231CQI-01	4A I <sup>2</sup> C Controllable COT EZBuck Regulator	Yes	Internal - 4ms
AOZ2231CQI-11	4A I <sup>2</sup> C Controllable EZBuck Regulator with Light Load Mode	Yes	Internal - 4ms
AOZ2232CQI-02	6A I <sup>2</sup> C Controllable EZBuck Regulator with Light Load Mode	Yes	Internal - 4ms
AOZ2233CQI-02	8A I <sup>2</sup> C Controllable COT EZBuck Regulator	Yes	Internal - 4ms
AOZ2233CQI-12	8A I <sup>2</sup> C Controllable COT EZBuck Regulator	Yes	Internal - 4ms
AOZ2234CQI-02	10A I <sup>2</sup> C Controllable EZBuck with Light Load Mode	Yes	Internal - 4ms
AOZ2235CQI-02	12A I <sup>2</sup> C Controllable EZBuck with Light Load Mode	Yes	Internal - 4ms
AOZ2236CQI-02	15A I <sup>2</sup> C Controllable EZBuck with Light Load Mode	Yes	Internal - 4ms
AOZ2253EQI-30	8A EZBuck with Light Load Mode	No	Adjustable
AOZ2253EQI-31	8A COT EZBuck Regulator	No	Adjustable
AOZ2253TQI-11	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2253TQI-20	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2254EQI-30	10A COT EZBuck Regulator with Light Load Mode	No	Adjustable
AOZ2254EQI-31	10A COT EZBuck Regulator with Light Load Mode	No	Adjustable
AOZ2254TQI-11	10A COT EZBuck Regulator	No	Adjustable
AOZ2254TQI-20	10A COT EZBuck Regulator	Yes	Adjustable
AOZ2255EQI-30	12A COT EZBuck with Light Load Mode	No	Adjustable
AOZ2255LQI-30	12A COT EZBuck with Light Load Mode	Yes	Adjustable
AOZ2255EQI-31	12A COT EZBuck with Light Load Mode	No	Adjustable
AOZ2260AQI-10	6A COT EZBuck Regulator	Yes	Adjustable
AOZ2260AQI-15	6A COT EZBuck Regulator	Yes	Adjustable
AOZ2260AQI-18	6A COT EZBuck Regulator	Yes	Adjustable

Switch, EZPower™ smart load switches, and power factor correction (PFC) devices. AOS' approach is to provide high-power density solutions to reduce design complexity and development time.

Min $V_{IN}$ (V)	Max $V_{IN}$ (V)	Max $I_{OUT}$ (A)	Min $V_{OUT}$ (V)	Max $V_{OUT}$ (V)	Operating Freq. (kHz)	Package
4.5	16	3.0	0.8	15	500	DFN 5x4
4.5	18	5.0	0.8	17	500	Exposed Pad SO-8
4.5	18	5.0	0.8	17	500	Exposed Pad SO-8
<b>3.0</b>	<b>5.5</b>	<b>3.0</b>	<b>0.8</b>	<b>3.3</b>	<b>650</b>	DFN 3x2
6.5	28	3.0	0.8	24	1000	QFN 3x3
6.5	28	4.0	0.8	24	1000	QFN 3x3
6.5	28	4.0	0.8	24	1000	QFN 3x3
6.5	28	4.0	0.8	14	1000	QFN 3x3
6.5	28	4.0	0.8	14	1000	QFN 3x3
6.5	28	4.0	0.8	24	1000	QFN 3x3
6.5	28	4.0	0.8	28	1000	QFN 3x3
6.5	28	4.0	0.8	24	1000	QFN 3x3
6.5	28	5.0	0.8	24	1000	QFN 3x3
6.5	28	5.0	0.8	24	1000	QFN 3x3
6.5	28	6.0	0.8	24	1000	QFN 3x3
6.5	28	6.0	0.8	24	1000	QFN 3x3
6.5	28	6.0	0.8	14	1000	QFN 3x3
6.5	28	8.0	0.8	24	1000	QFN 3x3
6.5	28	8.0	0.8	14	1000	QFN 3x3
6.5	28	4.0	0.6	1.791	400	QFN 4x4
6.5	28	4.0	0.9	1.191	400	QFN 4x4
6.5	28	6.0	0.6	1.791	400	QFN 4x4
6.5	28	8.0	0.6	1.791	400	QFN 4x4
6.5	28	8.0	0.9	1.191	400	QFN 4x4
6.5	28	10.0	0.6	1.791	400	QFN 4x4
6.5	28	12.0	0.6	1.791	400	QFN 4x4
6.5	28	12.0	0.6	1.791	400	QFN 4x4
6.5	28	8.0	0.8	24.0	1000	QFN 4x4
6.5	28	8.0	0.8	24.0	1000	QFN 4x4
6.5	28	8.0	0.8	14.0	1000	QFN 4x4
6.5	28	8.0	0.8	14.0	1000	QFN 4x4
6.5	28	10.0	0.8	24.0	1000	QFN 4x4
6.5	28	10.0	0.8	24.0	1000	QFN 4x4
6.5	28	10.0	0.8	14.0	1000	QFN 4x4
6.5	28	8.0	0.8	24.0	1000	QFN 4x4
6.5	28	12.0	0.6	24.0	1000	QFN 4x4
6.5	28	12.0	0.8	24.0	1000	QFN 4x4
4.0	28	6.0	0.8	24.0	1000	QFN 4x4
4.0	28	6.0	0.8	24.0	1000	QFN 4x4
4.0	28	6.0	0.8	24.0	1000	QFN 4x4



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

Part Number	Description	PGOOD	Soft Start
AOZ2260QI-10	6A COT EZBuck Regulator	Yes	Adjustable
AOZ2260QI-11	6A COT EZBuck Regulator	Yes	Adjustable
AOZ2260QI-15	6A COT EZBuck Regulator	Yes	Adjustable
AOZ2260QI-18	6A COT EZBuck Regulator	Yes	Adjustable
AOZ2261AQI-10	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2261AQI-15	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2261AQI-18	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2261NQi-11	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2261QI-10	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2261QI-11	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2261QI-15	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2261QI-18	8A COT EZBuck Regulator	Yes	Adjustable
AOZ2262AQI-10	10A COT EZBuck Regulator	Yes	Adjustable
AOZ2262AQI-15	10A COT EZBuck Regulator	Yes	Adjustable
AOZ2262AQI-18	10A COT EZBuck Regulator	Yes	Adjustable
AOZ2262QI-10	10A COT EZBuck Regulator	Yes	Adjustable
AOZ2262QI-15	10A COT EZBuck Regulator	Yes	Adjustable
AOZ2262QI-18	10A COT EZBuck Regulator	Yes	Adjustable
AOZ2263AQI-10	12A COT EZBuck Regulator	Yes	Adjustable
AOZ2263AQI-15	12A COT EZBuck Regulator	Yes	Adjustable
AOZ2263AQI-18	12A COT EZBuck Regulator	Yes	Adjustable
AOZ2263QI-10	12A COT EZBuck Regulator	Yes	Adjustable
AOZ2263QI-15	12A COT EZBuck Regulator	Yes	Adjustable
AOZ2263QI-18	12A COT EZBuck Regulator	Yes	Adjustable
AOZ2264NQi-11	15A COT EZBuck Regulator	Yes	Adjustable
AOZ2264QI-11	15A COT EZBuck Regulator	Yes	Adjustable
AOZ2264QI-15	15A COT EZBuck Regulator	Yes	Adjustable
AOZ2264QI-18	15A COT EZBuck Regulator	Yes	Adjustable
AOZ2264QI-19	15A COT EZBuck Regulator	Yes	Adjustable
AOZ2264QI-20	15A COT EZBuck Regulator	Yes	Adjustable
AOZ2367QI-11	20A COT EZBuck Regulator	Yes	Adjustable
AOZ2368QI-11	25A COT EZBuck Regulator	Yes	Adjustable
<b>AOZ2369QI-11</b>	<b>New 30A COT EZBuck Regulator</b>	<b>Yes</b>	<b>Adjustable</b>
AOZ6604PI	4A EZBuck with External Soft-Start/Compensation	No	External - Programmable
AOZ6605PI	5A EZBuck with External Soft-Start	No	External - Programmable
AOZ6605PI-1	5A Sync Buck with External Soft Start	No	External - Programmable
AOZ6606PI	6A Sync Buck with External Soft Start	No	External - Programmable
AOZ6622DI	2A EZBuck with Internal Soft-Start/Compensation	No	Internal - 1.5ms
AOZ6623DI	3A EZBuck with Internal Soft-Start/Compensation	No	Internal - 1.5ms
AOZ6643DI	3A EZBuck with Internal Soft-Start	No	Internal - 4ms
AOZ6662DI	2A EZBuck with Internal Soft-Start/External Compensation	No	Internal - 3.5ms
AOZ6662DI-01	2A EZBuck with Internal Soft-Start/External Compensation/Light Load Mode	No	Internal - 3.5ms
AOZ6663DI	3A EZBuck with Internal Soft-Start/External Compensation	No	Internal - 3.5ms
AOZ6663DI-01	3A EZBuck with Internal Soft-Start/Compensation	No	Internal - 3.5ms
AOZ6682CI	2A EZBuck with Internal Soft-Start/Compensation	No	Internal - 2.8ms
AOZ6683CI	3A EZBuck with Internal Soft-Start/Compensation/Light Load Mode	No	Internal - 2.8ms
AOZ6762DI	2A 1.25MHz EZBuck with Internal Soft-Start/External Compensation	No	Internal - 3.5ms
AOZ6763DI	3A 1.25MHz EZBuck with Internal Soft-Start/External Compensation	No	Internal - 3.5ms

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)	Package
2.7	28.0	6.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	6.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	6.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	6.0	0.8	24.0	1000	QFN 4x4
4.0	28.0	8.0	0.8	24.0	1000	QFN 4x4
4.0	28.0	8.0	0.8	24.0	1000	QFN 4x4
4.0	28.0	8.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	8.0	0.6	24.0	1000	QFN 4x4
2.7	28.0	8.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	8.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	8.0	0.8	24.0	1000	QFN 4x4
4.0	28.0	10.0	0.8	24.0	1000	QFN 4x4
4.0	28.0	10.0	0.8	24.0	1000	QFN 4x4
4.0	28.0	10.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	10.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	10.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	10.0	0.8	24.0	1000	QFN 4x4
4.0	28.0	12.0	0.8	24.0	1000	QFN 4x4
4.0	28.0	12.0	0.8	24.0	1000	QFN 4x4
4.0	28.0	12.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	12.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	12.0	0.8	24.0	1000	QFN 4x4
2.7	28.0	12.0	0.8	24.0	1000	QFN 4x4
2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
2.7	24.0	15.0	0.6	20.0	1000	QFN 4x4
4.5	24	20	0.6	20	1000	QFN 5x5
4.5	24	25	0.6	20	1000	QFN 5x5
<b>4.5</b>	<b>24</b>	<b>30</b>	<b>0.6</b>	<b>20</b>	<b>1000</b>	<b>QFN 5x5</b>
4.5	18.0	4.0	0.6	15.3	600	Exposed Pad SO-8
4.5	18.0	5.0	0.6	15.3	650	Exposed Pad SO-8
4.5	18.0	5.0	0.6	15.3	600	Exposed Pad SO-8
4.5	18.0	5.0	0.6	15.3	600	Exposed Pad SO-8
4.5	18.0	2.0	0.8	15.3	550	DFN 3x3
4.5	18.0	3.0	0.8	15.3	550	DFN 3x3
4.5	18.0	3.0	0.8	15.3	500	DFN 3x3
4.5	18.0	2.0	0.6	15.3	750	DFN 3x3
4.5	18.0	2.0	0.6	15.3	750	DFN 3x3
4.5	18.0	3.0	0.6	15.3	750	DFN 3x3
4.5	18.0	3.0	0.6	15.3	750	DFN 3x3
4.5	18.0	3.0	0.8	15.3	750	TSOT23
4.5	18.0	3.0	0.8	15.3	750	TSOT23
4.5	18.0	2.0	0.6	15.3	1250	DFN 3x3
4.5	18.0	2.0	0.6	15.3	1250	DFN 3x3

## DC-DC Buck Regulators – Non Synchronous EZBuck™ Family

Part Number	Description	Integrated Schottky	Soft Start (ms)
AOZ1015AI	1.5A EZBuck Regulator	Yes	Internal - 2.2 ms
AOZ1016AI	2A EZBuck Regulator	Yes	Internal - 2.2 ms
AOZ1083CI	1.2A EZBuck LED Driver	No	Internal - 0.4 ms
AOZ1084DI	1.2A EZBuck LED Driver	No	Internal - 0.6 ms
AOZ1210AI	2A, 4.5V to 27V EZBuck Regulator	No	Internal - 4.0 ms
AOZ1212AI	3A, 4.5V to 27V EZBuck Regulator	No	Internal - 6.0 ms
AOZ1212DI	3A, 4.5V to 27V EZBuck Regulator	No	Internal - 6.0 ms
AOZ1240AI	2A 4.5V to 32V EZBuck Regulator	No	Internal - 6ms
AOZ1242AI	3A 4.5V to 32V EZBuck Regulator	No	Internal - 6ms
AOZ1242DI	3A 4.5V to 32V EZBuck Regulator	No	Internal - 6ms
AOZ1280CI	1.2A, 3V to 26V EZBuck Regulator	No	Internal - 0.4 ms
AOZ1281DI	1.8A, 3V to 26V EZBuck Regulator	No	Internal - 0.4 ms
AOZ1282CI	1.2A, 4.5V to 36V EZBuck Regulator	No	Internal - 1.5 ms
AOZ1282CI-1	600mA, 4.5V to 36V EZBuck Regulator	No	Internal - 0.6 ms
AOZ1282CI-2	600mA, 4.5V to 36V EZBuck Regulator with High Duty Cycle	No	Internal - 0.6 ms
AOZ1282DI	1.2A, 4.5V to 36V EZBuck Regulator	No	Internal - 1.5 ms
AOZ1283PI	2.5A, 3V to 36V EZBuck Regulator	No	External - Programmable
AOZ1284PI	4A, 3V to 36V EZBuck Regulator	No	External - Programmable

## Smart Current Limited Load Switches – ECPower™ Family

Part Number	Description	Ops $V_{IN}$ (V)	Absolute Max $V_{IN}$ and $V_{OUT}$ (V)	$R_{ON}$ (mΩ)
AOZ1327DI-01	20V ECPower™ Protection Switch with True Reverse-Current Blocking	2.4 - 22	28	20
AOZ1327DI-02	20V ECPower™ Protection Switch with True Reverse-Current Blocking	2.4 - 22	28	20
AOZ1353DI-01	5V ECPower™ with True Reverse-Current Blocking	3.4 - 5.5	28 on $V_{OUT}$	40
AOZ1353DI-02	5V ECPower™ with True Reverse-Current Blocking	3.4 - 5.5	28 on $V_{OUT}$	40
AOZ1353DI-03	5V ECPower™ with True Reverse-Current Blocking	3.4 - 5.5	28 on $V_{OUT}$	40
AOZ1353DI-04	5V ECPower™ with True Reverse-Current Blocking	3.4 - 5.5	28 on $V_{OUT}$	40
AOZ1353LI-01	5V ECPower™ Protection Switch with True Reverse-Current Blocking	3.4 - 5.5	28 on $V_{OUT}$	32
AOZ1353LI-02	5V ECPower™ Protection Switch with True Reverse-Current Blocking	3.4 - 5.5	28 on $V_{OUT}$	32
AOZ1353LI-03	5V ECPower™ Protection Switch with True Reverse-Current Blocking	3.4 - 5.5	28 on $V_{OUT}$	32
AOZ1353LI-04	5V ECPower™ Protection Switch with True Reverse-Current Blocking	3.4 - 5.5	28 on $V_{OUT}$	32
AOZ1356LI-01	5V ECPower™ Protection Switch Supporting USB PD Fast Role Swap	3.4 - 5.5	28 on $V_{OUT}$	34
AOZ1356LI-02	5V ECPower™ Protection Switch Supporting USB PD Fast Role Swap	3.4 - 5.5	28 on $V_{OUT}$	34
AOZ1356LI-05	5V ECPower™ Protection Switch Supporting USB PD Fast Role Swap	3.6 - 5.3	28 on $V_{OUT}$	34
AOZ1356LI-06	5V ECPower™ Protection Switch Supporting USB PD Fast Role Swap	3.6 - 5.3	28 on $V_{OUT}$	34
AOZ1375DI-01	20V ECPower™ Bidirectional Switch Protection	3.4 - 23	28	20
AOZ1375DI-02	20V ECPower™ Bidirectional Switch Protection	3.4 - 23	28	20
AOZ1376DI-01	20V ECPower™ Protection Switch with True Reverse-Current Blocking	3.4 - 22	28	20
AOZ1376DI-02	20V ECPower™ Protection Switch with True Reverse-Current Blocking	3.4 - 22	28	20

Min $V_{IN}$ (V)	Max $V_{IN}$ (V)	Max $I_{OUT}$ (A)	Min $V_{OUT}$ (V)	Max $V_{OUT}$ (V)	Operating Freq. (kHz)	Package
4.5	16.0	1.5	0.8	16.0	500	SO-8
4.5	16.0	2.0	0.8	16.0	500	SO-8
3.0	26.0	1.2	0.28	23.0	1500	SOT-23
4.5	36.0	1.2	0.16	30.0	450	DFN 2x2
4.5	27.0	2.0	0.8	23.0	370	SO-8
4.5	27.0	3.0	0.8	23.0	370	SO-8
4.5	27.0	3.0	0.8	23.0	370	DFN 5x4
4.5	32	2.0	0.8	32	370	SO-8
4.5	32	3.0	0.8	32	370	SO-8
4.5	32	3.0	0.8	32	370	DFN 5x4
3.0	26.0	1.2	0.8	26.0	1500	SOT-23
3.0	26.0	1.8	0.8	22.0	1500	DFN 2x2
4.5	36.0	1.2	0.8	36.0	450	SOT-23
4.5	36.0	0.6	0.8	36.0	1000	SOT-23
4.5	36.0	0.6	0.8	36.0	1000	SOT-23
4.5	36.0	1.2	0.8	36.0	450	DFN 2x2
3.0	36.0	2.5	0.8	30.0	2000	DFN 3x3
3.0	36.0	4.0	0.8	16.0	2000	DFN 3x3

Current Flow	Fast Role Swap	OVP	Current Limit	RCB	Fault Response	Package
Sink	—	Adjustable	—	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
Sink	—	Adjustable	—	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
Source	No	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
Source	No	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
Source	No	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
Source	No	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3
Source	No	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	WLCSP-12 Bumps
Source	No	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	WLCSP-12 Bumps
Source	No	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	WLCSP-12 Bumps
Source	No	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	WLCSP-12 Bumps
Source	Yes	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	WLCSP-12 Bumps
Source	Yes	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	WLCSP-12 Bumps
Source	Yes	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Auto Restart	WLCSP-12 Bumps
Source	Yes	Fixed	Adjustable	$V_{OUT} > V_{IN}$	Latch Off	WLCSP-12 Bumps
Source or Sink	No	Adjustable	Adjustable	EN = L	Auto Restart	DFN 3x3
Source or Sink	No	Adjustable	Adjustable	EN = L	Latch Off	DFN 3x3
Sink	—	Adjustable	—	$V_{OUT} > V_{IN}$	Auto Restart	DFN 3x3
Sink	—	Adjustable	—	$V_{OUT} > V_{IN}$	Latch Off	DFN 3x3

## DrMOS Power Modules

Part Number		Min $V_{IN}$ (V)	Max $V_{IN}$ (V)	DC Current (A)	Tri-State Control
AOZ5038QI		4.5	25	50	FCCM
AOZ5039QI		4.5	25	45	FCCM
<b>AOZ5116QI</b>	<i>New</i>	<b>4.5</b>	<b>25</b>	<b>55</b>	<b>SMOD</b>
<b>AOZ5117QI</b>	<i>New</i>	<b>4.5</b>	<b>25</b>	<b>60</b>	<b>SMOD</b>
<b>AOZ5117QI-01</b>	<i>New</i>	<b>4.5</b>	<b>25</b>	<b>60</b>	<b>SMOD</b>
AOZ5131QI		4.5	20	50	FCCM
AOZ5237QI		4.5	25	45	SMOD
AOZ5239QI		4.5	25	50	SMOD
<b>AOZ5311NQI</b>	<i>New</i>	<b>2.5</b>	<b>20</b>	<b>50</b>	<b>SMOD</b>
<b>AOZ5317UQI</b>	<i>New</i>	<b>2.5</b>	<b>25</b>	<b>60</b>	<b>SMOD</b>
AOZ5332QI		2.5	25	50	SMOD
AOZ5339QI		2.5	25	50	SMOD
<b>AOZ5516QI</b>	<i>New</i>	<b>4.5</b>	<b>25</b>	<b>55</b>	<b>FCCM</b>
AOZ5537QI		4.5	25	50	FCCM
AOZ5636QI		4.5	20	50	SMOD
AOZ5048QI		4.5	25	35	FCCM
<b>AOZ5517QI</b>	<i>New</i>	<b>4.5</b>	<b>25</b>	<b>60</b>	<b>FCCM</b>
AOZ5547QI		4.5	25	35	FCCM
AOZ5166QI		4.5	16	60	SMOD
AOZ5166QI-01		4.5	16	60	SMOD

## AC-DC Power Solutions

Part Number		Description	Control Scheme	Integrated MOSFET
<b>AOZ7501GAI</b>	<i>New</i>	Flyback PWM Controller	SSR	No
<b>AOZ7523RAI-12</b>	<i>New</i>	Flyback PWM Controller	SSR	Yes
<b>AOZ7543RAI-12</b>	<i>New</i>	Flyback PWM Controller	SSR	Yes
<b>AOZ7635QI-03</b>	<i>New</i>	Flyback STR Primary Side Converter	STR	Yes
<b>AOZ7645QI-03</b>	<i>New</i>	Flyback STR Primary Side Converter	STR	Yes
<b>AOZ7645QI-13</b>	<i>New</i>	Flyback STR Primary Side Converter	STR	Yes
<b>AOZ7648QI-06</b>	<i>New</i>	Flyback STR Secondary Side Converter	STR	Yes
<b>AOZ7648QI-16</b>	<i>New</i>	Flyback STR Secondary Side Converter	STR	Yes
<b>AOZ7000</b>	<i>New</i>	Galvanic Isolator	STR	No
<b>AOZ7111AI</b>	<i>New</i>	Critical Conduction Mode PFC Controller	—	No

Enable Control	Application	Package
FCCM	Notebook	QFN 5x5
FCCM	Notebook	QFN 5x5
<b>DISB#</b>	<b>Notebook</b>	<b>QFN 5x5</b>
<b>DISB#</b>	<b>Notebook</b>	<b>QFN 5x5</b>
<b>DISB#</b>	<b>Notebook</b>	<b>QFN 5x5</b>
FCCM	NVDC Notebook	QFN 5x5
DISB#	Notebook	QFN 5x5
DISB#	Notebook	QFN 5x5
<b>DISB#</b>	<b>Gaming Card</b>	<b>QFN 5x5</b>
<b>DISB#</b>	<b>Gaming Notebook</b>	<b>QFN 5x5</b>
DISB#	Graphic Card	QFN 5x5
DISB#	Graphic Card	QFN 5x5
<b>FCCM</b>	<b>Notebook</b>	<b>QFN 5x5</b>
FCCM	Notebook	QFN 5x5
DISB#	Gaming Notebook	QFN 5x5
FCCM	Ultrabook	QFN 3.5x5
<b>FCCM</b>	<b>Notebook</b>	<b>QFN 5x5</b>
FCCM	Ultrabook	QFN 3.5x5
DISB#	Server	QFN 6x6
DISB#	Server	QFN 6x6

MOSFET (BV <sub>DSS</sub> ) (V)	MOSFET (R <sub>DS_ON</sub> ) (Ω)	MOSFET Operation (kHz)	Brown-In/ Brown-Out	X-Cap Discharge	UVLO (V)	Package
—	—	65	No	No	7/15	SO-7
650	1.8	65	Yes	Yes	7/15	SO-13
650	0.58	65	Yes	Yes	7/15	QFN 6x6
700	0.9	150	No	No	6.7/15.5	QFN 6x6
700	0.6	150	No	No	6.7/15.5	QFN 6x6
700	0.6	150	No	No	6.7/15.5	QFN 6x6
100	9mΩ	145	NA	NA	2.7/3.5	QFN 6x6
100	9mΩ	100	NA	NA	2.7/3.5	QFN 6x6
No	—	—	—	—	—	DFN 9.5x5.5
—	—	350	—	—	9.5/12.0	SOIC-8

## Smart Load Switches – EZPower™ Family

Part Number	Description	V <sub>IN</sub> (V)	Turn On Rise Time (T <sub>r</sub> )
AOZ1331ADI	Dual Channel Smart Load Switch	0.5-5.5	1705μs
AOZ1360AIL	EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable
AOZ1360DIL	EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable
AOZ1361DI-01	EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable
AOZ1361DI-02	EZPower™ Protected Smart Load Switch	5.5 - 28	Adjustable
AOZ1363DI	EZPower™ Protected Smart Load Switch	5.0 - 16	16μs
AOZ1334DI-01	Single Channel Smart Load Switch	0.8 - 5.5	10μs
AOZ1334DI-02	Single Channel Smart Load Switch	0.8 - 5.5	0.5 ms
<b>AOZ1335DI-01</b> <i>New</i>	<b>Single Channel Smart Load Switch</b>	<b>0.8 - 1.5</b>	<b>19μs</b>
AOZ1336DI	Single Channel Smart Load Switch	0.8 - 5.5	Adjustable

Channel	Enable	Current Limit (A)	Fault Latch	R <sub>DS</sub> (mΩ) (Typ)	Package
2	CMOS/TTL Compatible	6.0	Yes	20	DFN 3x2
1	CMOS/TTL Compatible	Adjustable	Yes	35	SO-8
1	CMOS/TTL Compatible	Adjustable	Yes	35	DFN 4x4
1	CMOS/TTL Compatible	Adjustable	No	35	DFN 4x4
1	CMOS/TTL Compatible	Adjustable	Yes	35	DFN 4x4
1	CMOS/TTL Compatible	11.0	Yes	23	DFN 3x3
1	CMOS/TTL Compatible	10.0	No	5	DFN 3x3
1	CMOS/TTL Compatible	10.0	No	5	DFN 3x3
<b>1</b>	<b>CMOS/TTL Compatible</b>	<b>6.0</b>	<b>Yes</b>	<b>20</b>	<b>DFN 3x3</b>
1	CMOS/TTL Compatible	4.0	No	27	DFN 2x2



## TRANSIENT VOLTAGE SUPPRESSORs (TVS)

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

### High-Power Surge TVS

Part Number		Description	IEC 61000-4-2 (ESD)		Protected Lines
			Contact (kV)	Air (kV)	
AOZ8310DI-02		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8310DI-05		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8310DI-08		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8310DI-09		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8310DI-12		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8310DI-18		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8310DI-20		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8310DI-26		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8310DI-36		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8320DI-02		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8320DI-05		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8320DI-08		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8320DI-09		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8320DI-12		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8320DI-18		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8320DI-20		High-Power Surge TVS Diode	± 30	± 30	1
AOZ8320DI-36		High-Power Surge TVS Diode	± 30	± 30	1
<b>AOZ8360DI-07</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8360DI-12</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8360DI-15</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8360DI-18</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8360DI-20</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8360DI-22</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8360DI-24</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8621UNI-05</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8621UNI-07</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8621UNI-12</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8621UNI-15</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8621UNI-18</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8621UNI-20</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8621UNI-22</b>	<b>New</b>	<b>High-Power Surge TVS Diode</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>

immunity requirement of products that are designed for ESD protection of high-speed interfaces like HDMI2.0, USB3.1, IEEE1394, IEC61000-4-2, Level 4 for mobile, digital consumer, networking, and computing applications.

Reverse Working Voltage V <sub>RWM</sub> Max (V)	IEC 61000-4-5 (Peak Pluse Current) I <sub>pp</sub> max. (A)	IEC 61000-4-5 (8/20us) (Peak Pluse Power) P <sub>pp</sub> max. (W)	Channel Input Capacitance I/O - GND Typ. (pF)	Package
2.5	75	1100	100	DFN 1.6x1.0
5.0	85	1500	675	DFN 1.6x1.0
8.0	70	1500	425	DFN 1.6x1.0
9.0	65	1500	385	DFN 1.6x1.0
12.0	45	1500	275	DFN 1.6x1.0
18.0	35	1200	200	DFN 1.6x1.0
20.0	32	1200	165	DFN 1.6x1.0
26.0	25	1200	150	DFN 1.6x1.0
36.0	22	1500	130	DFN 1.6x1.0
2.5	75	1100	100	DFN 1.6x0.8
5.0	85	1500	675	DFN 1.6x0.8
8.0	70	1500	425	DFN 1.6x0.8
9.0	65	1500	385	DFN 1.6x0.8
12.0	45	1500	275	DFN 1.6x0.8
18.0	35	1200	200	DFN 1.6x0.8
20.0	32	1200	165	DFN 1.6x0.8
36.0	22	1500	130	DFN 1.6x0.8
<b>7.5</b>	<b>300</b>	<b>4250</b>	<b>2700</b>	<b>DFN 2.0x2.0</b>
<b>12.0</b>	<b>220</b>	<b>4250</b>	<b>1350</b>	<b>DFN 2.0x2.0</b>
<b>15.0</b>	<b>180</b>	<b>4250</b>	<b>1100</b>	<b>DFN 2.0x2.0</b>
<b>18.0</b>	<b>165</b>	<b>4250</b>	<b>950</b>	<b>DFN 2.0x2.0</b>
<b>20.0</b>	<b>135</b>	<b>4250</b>	<b>850</b>	<b>DFN 2.0x2.0</b>
<b>22.0</b>	<b>135</b>	<b>4250</b>	<b>800</b>	<b>DFN 2.0x2.0</b>
<b>24.0</b>	<b>110</b>	<b>4250</b>	<b>730</b>	<b>DFN 2.0x2.0</b>
<b>5.0</b>	<b>380</b>	<b>3800</b>	<b>3000</b>	<b>DFN 2.0x2.0</b>
<b>7.5</b>	<b>320</b>	<b>3800</b>	<b>2100</b>	<b>DFN 2.0x2.0</b>
<b>12.0</b>	<b>190</b>	<b>3800</b>	<b>1100</b>	<b>DFN 2.0x2.0</b>
<b>15.0</b>	<b>140</b>	<b>3800</b>	<b>800</b>	<b>DFN 2.0x2.0</b>
<b>18.0</b>	<b>120</b>	<b>3800</b>	<b>750</b>	<b>DFN 2.0x2.0</b>
<b>20.0</b>	<b>110</b>	<b>3800</b>	<b>660</b>	<b>DFN 2.0x2.0</b>
<b>22.0</b>	<b>100</b>	<b>3800</b>	<b>630</b>	<b>DFN 2.0x2.0</b>

## High-Current Surge TVS

Part Number		Description	IEC 61000-4-2 (ESD)		Protected Lines
			Contact (kV)	Air (kV)	
AOZ8331DI-03		Ultra-Low Capacitance TVS Diode Array	± 30	± 30	1
<b>AOZ8336DI-03</b>	<b>New</b>	<b>High-Current Surge TVS</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
<b>AOZ8336DI-04</b>	<b>New</b>	<b>High-Current Surge TVS</b>	<b>± 30</b>	<b>± 30</b>	<b>1</b>
AOZ8302ACI-05		TVS Diode Array	± 30	± 30	2
AOZ8302ACI-12		TVS Diode Array	± 30	± 30	2
AOZ8300CI-03		Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4
AOZ8318DI		Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4
AOZ8915CI		Ultra-Low Capacitance TVS Diode Array	± 24	± 30	4
AOZ8328DI		Ultra-Low Capacitance TVS Diode Array	± 30	± 30	8

## ESD TVS

Part Number		Description	IEC 61000-4-2 (ESD)		Protected Lines
			Contact (kV)	Air (kV)	
AOZ8131DI		Ultra-Low Capacitance Bidirectional Single TVS Diode	± 24	± 24	1
AOZ8211DI-02		Low Capacitance Unidirectional Single TVS Diode	± 30	± 30	1
AOZ8211DI-03		Low Capacitance Unidirectional Single TVS Diode	± 30	± 30	1
AOZ8211DI-05		Low Capacitance Unidirectional Single TVS Diode	± 28	± 28	1
AOZ8211DI-12		Low Capacitance Unidirectional Single TVS Diode	± 28	± 28	1
AOZ8211DI-24		Low Capacitance Unidirectional Single TVS Diode	± 18	± 15	1
AOZ8231ADI-02		Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8231ADI-03		Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8231ADI-05		Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8231ADI-08		Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8231ADI-12		Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8231ADI-24		Low Capacitance Bidirectional Single TVS Diode	± 15	± 18	1
AOZ8231BDI-08		Low Capacitance Bidirectional Single TVS Diode	± 18	± 18	1
AOZ8251ADI-03		Bidirectional Single TVS Diode	± 20	± 20	1
AOZ8251ADI-05		Bidirectional Single TVS Diode	± 20	± 20	1
AOZ8251BDI-05		Bidirectional Single TVS Diode	± 20	± 20	1
AOZ8251BDI-12		Bidirectional Single TVS Diode	± 20	± 20	1
AOZ8251BDI-16		Bidirectional Single TVS Diode	± 15	± 15	1
AOZ8650BDT-03		Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8651BDT-03		Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8651BDT-05		Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8671BDT-03		Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8671BDT-05		Ultra-Low Capacitance Bidirectional Single TVS Diode	± 30	± 30	1
AOZ8811DI		Ultra-Low Capacitance Single TVS Diode	± 8	± 15	1
AOZ8811DT-03		Ultra-Low Capacitance Single TVS Diode	± 20	± 20	1
AOZ8821DI-05		Ultra-Low Capacitance Single TVS Diode	± 15	± 15	1
AOZ8821DT-03		Ultra-Low Capacitance Single TVS Diode	± 20	± 20	1

Reverse Working Voltage $V_{RWM}$ Max (V)	IEC 61000-4-5 (Lightning) (A)	Channel Input Capacitance I/O - GND Typ. (pF)	Channel Clamp Voltage ( $I_{pp} = 5A$ ) $V_{CL}$ Max. (V)	Package
3.3	35	85	4.5	DFN 1.0x0.6
<b>3.3</b>	<b>50</b>	<b>100</b>	—	<b>DFN 1.0x0.6</b>
<b>4.8</b>	<b>50</b>	<b>100</b>	—	<b>DFN 1.0x0.6</b>
5.0	32	20	14.0	SOT-23
12.0	24	20	19.0	SOT-23
3.3	25	2.5	2.6	SOT-23
2.5	25	3.5	3.5	DFN 2.6x2.6
5.0	12	0.5	12.0	SOT-23
2.5	32	2.8	4.5	DFN 3.0x2.0

Reverse Working Voltage $V_{RWM}$ Max (V)	Channel Input Capacitance I/O - GND Typ. (pF)	Package
5.0	1.25	DFN 1.0x0.6
2.5	11.0	DFN 1.0x0.6
3.3	11.0	DFN 1.0x0.6
5.0	16.0	DFN 1.0x0.6
12.0	30.0	DFN 1.0x0.6
24.0	20.0	DFN 1.0x0.6
2.5	5.5	DFN 1.0x0.6
3.3	5.5	DFN 1.0x0.6
5.0	13.0	DFN 1.0x0.6
8.0	23.0	DFN 1.0x0.6
12.0	13.0	DFN 1.0x0.6
24.0	12.0	DFN 1.0x0.6
8.0	45.0	DFN 1.0x0.6
3.3	10.0	DFN 0.6x0.3
5.0	10.0	DFN 0.6x0.3
5.0	5.0	DFN 0.62x0.32
12.0	4.5	DFN 0.62x0.32
16.0	3.0	DFN 0.62x0.32
3.3	0.75	DFN 0.6x0.3A
3.3	0.5	DFN 0.6x0.3A
5.0	0.5	DFN 0.6x0.3A
3.3	1.0	DFN 0.6x0.3A
5.0	1.0	DFN 0.6x0.3A
5.0	0.5	DFN 1.0x0.6
3.6	—	DFN 1.0x0.6
5.0	0.65	DFN 1.0x0.6
3.6	—	DFN 1.0x0.6

## ESD TVS

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines
		Contact (kV)	Air (kV)	
AOZ8831ADI-05	Ultra-Low Capacitance Single TVS Diode	± 25	—	1
AOZ8831DI-05	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 15	± 15	1
AOZ8831DT-03	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1
AOZ8831DT-05	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1
AOZ8831DT-24	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 15	± 13	1
AOZ8841DI-05	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 25	± 15	1
AOZ8851ADI-03	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1
AOZ8851ADI-05	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1
AOZ8851ADI-07	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 20	± 20	1
AOZ8851ADI-18	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 8	± 15	1
AOZ8851ADI-20	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 8	± 15	1
AOZ8851ADI-24	Ultra-Low Capacitance Bidirectional Single TVS Diode	± 8	± 15	1
AOZ8001DI	Ultra-Low Capacitance TVS Diode Array	± 8	± 15	2
AOZ8101	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	2
AOZ8212ACI-05	Low Capacitance Bidirectional TVS Diode Array	± 15	± 15	2
AOZ8212BCI-12	Low Capacitance Bidirectional TVS Diode Array	± 30	± 30	2
AOZ8212BCI-24	Low Capacitance Bidirectional TVS Diode Array	± 15	± 18	2
AOZ8802ADI	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	2
AOZ8822DI-05	Low Capacitance TVS Diode Array	± 15	± 15	2
AOZ8832DI-05	Low Capacitance Bidirectional TVS Diode Array	± 12	± 12	2
AOZ8882DI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	2
AOZ8000CI	Ultra-Low Capacitance TVS Diode Array	± 8	± 15	4
AOZ8102DI	Ultra-Low Capacitance TVS Diode Array	± 20	± 20	4
<b>AOZ8654BLT-05</b>	<b>Ultra-Low Capacitance TVS Diode Array</b>	<b>± 30</b>	<b>± 30</b>	<b>4</b>
AOZ8804ADI	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4
AOZ8808DI-03	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4
AOZ8808DI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4
AOZ8809DI-03	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4
AOZ8809DI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4
AOZ8809ADI-03	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4
AOZ8809ADI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	4
AOZ8829DI-03	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4
AOZ8839DI-03	Ultra-Low Capacitance TVS Diode Array	± 12	± 15	4
AOZ8839DI-05	Ultra-Low Capacitance TVS Diode Array	± 12	± 15	4
AOZ8844DT-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 20	4
AOZ8858DI-03	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4
AOZ8903CI	Ultra-Low Capacitance TVS Diode Array	± 15	± 20	4
AOZ8904CIL	Ultra-Low Capacitance TVS Diode Array	± 24	± 24	4
AOZ8905CI	Ultra-Low Capacitance TVS Diode Array	± 8	± 15	4
AOZ8906CI	Ultra-Low Capacitance TVS Diode Array	± 15	± 20	4
AOZ8204DI	Low Capacitance TVS Diode Array	± 30	± 30	4
AOZ8224CI-05	Low Capacitance Bidirectional TVS Diode Array	± 30	± 30	4
AOZ8234DI	Low Capacitance TVS Diode Array	± 18	± 18	4
AOZ8858DI-03	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4
AOZ8235DI	Low Capacitance TVS Diode Array	± 18	± 18	5
AOZ8236DI-05	TVS Diode Array	± 30	± 30	5

Reverse Working Voltage V <sub>RWM</sub> Max (V)	Channel Input Capacitance I/O - GND Typ. (pF)	Package
5.0	0.3	DFN 1.6x1.0
5.0	0.35	DFN 1.0x0.6
3.6	0.22	DFN 1.0x0.6
5.0	0.22	DFN 1.0x0.6
24	0.35	DFN 1.0x0.6
5.0	0.3	DFN 1.0x0.6
3.3	0.22	DFN 0.62x0.32
5.0	0.22	DFN 0.62x0.32
7.0	0.22	DFN 0.62x0.32
18.0	0.4	DFN 0.62x0.32
20.0	0.4	DFN 0.62x0.32
24.0	0.4	DFN 0.62x0.32
5.5	1.0	DFN 1.6x1.6
5.5	1.3	SOT-23
5.0	11.0	SOT-23
12.0	10.0	SOT-23
24.0	11.0	SOT-23
5.0	0.6	DFN 1.6x1.0
5.0	0.55	DFN 1.0x0.6
5.0	0.4	DFN 1.0x0.6
5.0	0.3	DFN 1.2x1.1
5.5	1.0	SOT-23
5.5	1.0	DFN 1.6x1.6
<b>5.5</b>	<b>2.5</b>	<b>AlphaDFN 0.925x0.525</b>
5.0	0.6	DFN 2.5x1.0
3.3	0.6	DFN 2.5x1.0
5.0	0.6	DFN 2.5x1.0
3.3	0.45	DFN 2.5x1.0
5.0	0.45	DFN 2.5x1.0
3.3	0.45	DFN 2.5x1.0
5.0	0.45	DFN 2.5x1.0
3.3	0.6	DFN 2.5x1.0
3.3	0.3	DFN 2.5x1.0A
5.0	0.3	DFN 2.5x1.0A
5.0	0.5	DFN 1.3x0.8
3.3	0.25	DFN 2.5x1.0A
5.5	0.5	SOT-23
5.5	1.25	SOT-23
5.0	0.7	SOT-23
5.5	0.5	SOT-23
5.0	17.0	DFN 1.0x0.6
5.0	13.0	SOT-23
5.0	13.5	DFN 1.45x1.0
3.3	0.25	DFN 1.45x1.0
5.0	13.5	DFN 1.45x1.0
5.0	—	DFN 1.6x1.6

## ESD TVS (Continued)

Part Number	Description	IEC 61000-4-2 (ESD)		Protected Lines
		Contact (kV)	Air (kV)	
AOZ8206DI	Low Capacitance TVS Diode Array	± 20	± 20	6
AOZ8806DI-03	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	6
AOZ8806DI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	6
AOZ8807DI-03	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	6
AOZ8807DI-05	Ultra-Low Capacitance TVS Diode Array	± 15	± 15	6
<b>AOZ8936DI</b>	<b>New</b> <b>7 Channel Combo TVS for USB</b>	<b>± 24</b>	<b>± 30</b>	<b>7</b>
<b>AOZ8937DI</b>	<b>New</b> <b>7 Channel Combo TVS for USB</b>	<b>± 12</b>	<b>± 15</b>	<b>7</b>
AOZ8208DI	Low Capacitance TVS Diode Array	± 28	± 28	8
AOZ8849DI-03	Ultra-Low Capacitance TVS Diode Array	± 12	± 15	8
AOZ8849DI-05	Ultra-Low Capacitance TVS Diode Array	± 12	± 15	8
AOZ8312DI	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	12

Reverse Working Voltage $V_{RWM}$ Max (V)	Channel Input Capacitance I/O - GND Typ. (pF)	Package
5.0	17.0	DFN 1.6x1.6
3.3	0.6	DFN 3.3x1.3
5.0	0.6	DFN 3.3x1.3
3.3	0.45	DFN 3.3x1.3
5.0	0.45	DFN 3.3x1.3
<b>5.0</b>	<b>0.4</b>	<b>DFN 4.1x2.0</b>
<b>5.0</b>	<b>0.3</b>	<b>DFN 4.1x2.0</b>
5.0	17.0	DFN 1.8x1.2
3.3	0.12	DFN 5.5x1.5
5.0	0.12	DFN 5.5x1.5
2.5	2.3	DFN 3.5x2.5



# MOSFETs, IGBTs, IPMs AND HVICs

AOS pioneered the fab-lite model in the Trench Power MOSFET field, developing leading-edge products that are exclusively manufactured in state-of-the-art 12-inch and 8-inch fabs. Advanced proprietary silicon and packaging are designed in AOS' U.S.

## Low Voltage MOSFETs

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
<b>AlphaDFN™ 0.97x0.97</b>							
AOC2421	MCSP 0.97x0.97A	Single	P	Yes	No	-8	5
AOC2874	MCSP 0.97x0.97B	Common Drain	N	Yes	No	20	12
<b>AlphaDFN™ 1.5x1.5/1.57x1.57</b>							
AOC2804B	MCSP 1.5x1.5	Common Drain	N	Yes	No	20	12
<b>AlphaDFN™ 1.79x1.18</b>							
AOCA24108E	MCSP 1.79x1.18	Common Drain	N	Yes	No	12	8
<b>AlphaDFN™ 1.84x1.96</b>							
<b>AOCA32106E</b> <i>New</i>	<b>MCSP 1.84x1.96</b>	<b>Common Drain</b>	<b>N</b>	<b>Yes</b>	<b>No</b>	<b>12</b>	<b>8</b>
<b>AlphaDFN™ 1.9x1.6</b>							
AOCA24106E	MCSP 1.9x1.6	Common Drain	N	Yes	No	12	8
<b>AlphaDFN™ 2.7x1.81</b>							
AOC3868	MCSP 2.7x1.81A	Common Drain	N	Yes	No	12	8
<b>AlphaDFN™ 3.4x1.96</b>							
AOCA36102E	MCSP 3.4x1.96	Common Drain	N	Yes	No	12	8
<b>AlphaDFN™ 3.01x1.52</b>							
AOC3870A	MCSP 3.01x1.52A	Common Drain	N	Yes	No	12	8
<b>AlphaDFN™ 3.05x1.77</b>							
AOC3860A	MCSP 3.05x1.77A	Common Drain	N	Yes	No	12	8
<b>AlphaDFN™ 3.55x1.77</b>							
AOC3862	MCSP 3.55x1.77	Common Drain	N	Yes	No	12	8
AOC3878	MCSP 3.55x1.77	Common Drain	N	Yes	No	12	8
<b>SC-70</b>							
AO7400	SC-70-3	Single	N	No	No	30	12
AO7410	SC-70-3	Single	N	No	No	30	12
AO7412	SC-70-6	Single	N	No	No	30	12
AO7408	SC-70-6	Single	N	No	No	20	8
AO7414	SC-70-6	Single	N	No	No	20	8
AO7407	SC-70-3	Single	P	No	No	-20	8
AO7411	SC-70-6	Single	P	No	No	-20	8
AO7413	SC-70-3	Single	P	Yes	No	-20	12
AO7415	SC-70-6	Single	P	Yes	No	-20	12
AO7417	SC-70-6	Single	P	No	No	-20	8
AO7401	SC-70-3	Single	P	No	No	-30	12
AO7405	SC-70-6	Single	P	No	No	-30	12
AO7800	SC-70-6	Dual	N	Yes	No	20	8

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

headquarters and are then produced with its very efficient manufacturing model. Our product portfolio covers 6V to 1000V MOSFETs; 600V, 650V, 700V, 1200V, and 1350V IGBTs; 600V 3-phase motor drives IPMs, and HVICs.

I <sub>D</sub> (A) 25°C	P <sub>D</sub> (W) 25°C	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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
-2.5	0.6			60	72	-0.7	752	178	104	7.5	1	12	4
4.5	1.1		48	72		1.3				11.5			
6	1.3		34 <sup>(2)</sup>	56 <sup>(2)</sup>		1.3				9.5			
14	2.2		7.5	11		1.1				15			
<b>25</b>	<b>2.8</b>		<b>3.4</b>	<b>5.3</b>		<b>1.1</b>				<b>23</b>			
20	2.7		5.6	8.5		1.1				18			
20	2.5		5	7		1.1				35			
20	2.5		5	7		1.1				35			
22	2.3		3.7	5.6		1.1				32			
25	2.5		3.5	5		1.0				44			
27	2.5		3.0	4.4		1.2				46			
35	3.1		2	3.3		1.1				60			
1.7	0.35	55	65	85		1.5	235	35	18	4.7	1.6	8.5	2.6
1.7	0.35	55	65	85		1.5	235	35	18	4.7	1.6	8.5	2.6
1.7	0.35	55	65	85		1.5	235	35	18	4.7	1.6	8.5	2.6
2	0.35		62	75	85	1	260	48	27	2.9 <sup>†</sup>	0.6	14	3.8
2	0.35		62	70	85	1	260	48	27	2.9	0.6	14	3.4
-1.2	0.63		135	170	220	-1	560	80	70	8.5 <sup>†</sup>	2.1	37	27
-1.8	0.63		120	150	200	-1	560	80	70	8.5	2.1	37	27
-1.4	0.35	113	135	180		-1.2	325	63	37	3.2	0.9	6.1	1.4
-2	0.63	100	125	170		-1.2	325	63	37	3.2	0.9	6.1	1.4
-1.9	0.57		80	100	125	-1	560	80	70	8.5	2.1	37	27
-1.4	0.35	115	140	200		-1.4	260	37	20	2.8	1	11.5	4.5
-1.4	0.35	115	140	200		-1.4	260	37	20	2.8	1	11.5	4.5
0.9	0.3		300	350	450	0.9	101	17	14	1.57	0.36	6.7	1.6

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
<b>SC-89</b>								
AO5401E		SC-89-3	Single	P	Yes	No	-20	8
AO5803E		SC-89-6	Dual	P	Yes	No	-20	8
AO5600E		SC-89-6	Complementary	N	Yes	No	20	8
AO5600E		SC-89-6	Complementary	P	Yes	No	-20	8
<b>SOT-23</b>								
AO3400		SOT-23-3	Single	N	No	No	30	12
AO3400A		SOT-23-3	Single	N	No	No	30	12
AO3402		SOT-23-3	Single	N	No	No	30	12
AO3404A		SOT-23-3	Single	N	No	No	30	20
AO3406		SOT-23-3	Single	N	No	No	30	20
AO3418		SOT-23-3	Single	N	No	No	30	12
AO3424		SOT-23-3	Single	N	No	No	30	12
AO3434A		SOT-23-3	Single	N	Yes	No	30	12
AO3414		SOT-23-3	Single	N	No	No	20	8
AO3416		SOT-23-3	Single	N	Yes	No	20	8
AO3420		SOT-23-3	Single	N	No	No	20	12
AO3413		SOT-23-3	Single	P	No	No	-20	8
AO3415		SOT-23-3	Single	P	Yes	No	-20	8
AO3415A		SOT-23-3	Single	P	Yes	No	-20	8
AO3419		SOT-23-3	Single	P	Yes	No	-20	12
AO3423		SOT-23-3	Single	P	Yes	No	-20	12
AO3435		SOT-23-3	Single	P	No	No	-20	8
AO3401		SOT-23-3	Single	P	No	No	-30	12
AO3401A		SOT-23-3	Single	P	No	No	-30	12
AO3403		SOT-23-3	Single	P	No	No	-30	12
AO3407		SOT-23-3	Single	P	No	No	-30	20
AO3407A		SOT-23-3	Single	P	No	No	-30	20
AO3409		SOT-23-3	Single	P	No	No	-30	20
AO3421		SOT-23-3	Single	P	No	No	-30	20
AO3421E		SOT-23-3	Single	P	Yes	No	-30	20
AO3451		SOT-23-3	Single	P	No	No	-30	12
AO3452		SOT-23-3	Single	N	No	No	30	12
AO3453		SOT23-3	Single	P	No	No	-30	12
AO3454		SOT23-3	Single	N	No	No	30	20
AO3456		SOT23-3	Single	N	No	No	30	20
AO3457		SOT23-3	Single	P	No	No	30	20
AO3459		SOT23-3	Single	P	No	No	-30	20
AO3493		SOT23-3	Single	P	No	No	-20	8
AO3494		SOT23-3	Single	N	No	No	20	8
AO3495		SOT23-3	Single	P	Yes	No	-20	8
AO3498		SOT23-3	Single	N	No	No	30	12
AO3499		SOT23-3	Single	P	Yes	No	-20	12
<b>AOSS32334C</b>	<b>New</b>	<b>SOT23-3</b>	<b>Single</b>	<b>N</b>	<b>Yes</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>AOSS32136C</b>	<b>New</b>	<b>SOT23-3</b>	<b>Single</b>	<b>N</b>	<b>Yes</b>	<b>No</b>	<b>20</b>	<b>12</b>
<b>AOSS32338C</b>	<b>New</b>	<b>SOT23-3</b>	<b>Single</b>	<b>N</b>	<b>Yes</b>	<b>No</b>	<b>30</b>	<b>12</b>

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
-0.5	0.38		800	1000	1300	-0.9	72	17	9			27	8.3
-0.6	0.4		800	1000	1250	-0.9	72	17	9			27	8.3
0.6	0.38		650	750	950	1	35	8	6	0.63	0.16	8	2
-0.5	0.38		800	1000	1300	-1	72	17	9			27	8.3
5.8	1.4	28	33	52		1.45	630	75	50	6	1.8	8.5	2.6
5.7	1.4	26.5	32	48		1.45	630	75	50	6	1.8	8.5	2.6
4	1.4	52	65	85		1.5	235	35	18	4.7	1.6	8.5	2.6
5.8	1.4	25	35			2.6	373	67	41	3.3	1.7	10.5	4.5
3.6	1.4	50	70			2.5	170	35	23	2	1	7.5	2.5
3.8	1.4	55	65	85		1.5	235	35	18	4.7	1.6	8.5	2.6
3.8	1.4	55	65	85		1.5	235	35	18	4.7	1.6	8.5	2.6
4	1.4	52	60	78		1.5	245	35	20	2.6	1	6.5	7.5
3	1.4		62	70	85	1	260	48	27	2.9	0.6	14	3.8
6.5	1.4		22	26	34	1.1	1295	160	87	10	2.6	31	6.8
6	1.4	24	27	42	55	1.1	525	95	75	6	2	14	6
-3	1.4		80	100	130	-1	560	80	70	8.5	2.1	37	27
-4	1.5		41	53	65	-0.9	751	115	80	9.3	2.2	26	51
-5	1.5		41	53	65	-0.9	751	115	80	9.3	2.2	26	51
-3.5	1.4	85	102	140		-1.2	325	63	37	3.1	1.1	11	4.3
-2	1.4	92	118	166		-1.2	325	63	37	3.2	0.9	6.1	1.4
-2.9	1		70	90	110	-1	510	70	52	5.6	1.8	17	4
-4	1.4	50	60	85		-1.3	645	80	55	7	2.5	11	3.5
-4	1.4	50	60	85		-1.3	645	80	55	7	2.5	11	3.5
-2.6	1.4	115	150	200		-1.4	260	37	20	2.8	1	11.5	4.5
-4.1	1.4	52	87			2.4	520	100	65	4.6	2.2	11	5.3
-4.3	1.4	48	78			-2.4	520	100	65	4.6	2.2	11	5.3
-2.6	1.4	110	180			-2.4	197	42	26	2.2	1.1	11.3	4.4
-2.6	1.4	110	180			-2.4	197	42	26	2.2	1.1	11.3	4.4
-3	1.4	95	160			-2.5	215	46.5	27.5	2.2	1.2	9	16
-4	1.4	50	60	85		-1.3	645	80	55	7	2.5	11	3.5
4	1.4	52	65	85		1.5	235	35	18	5	1.6	8.5	2.6
-2.6	1.4	115	150	200		-1.4	260	37	20	3	1	11.5	4.5
5.8	1.4	25	35			2.6	373	67	41	3.3	1.7	10.5	4.5
3.6	1.4	50	70			2.5	200	35	23	2	1	7.5	2.5
-4.3	1.4	48	78			-2.4	520	100	65	4.6	2.2	11	5.3
-2.6	1.4	110	180			-2.4	197	42	26	2.2	1.1	11.3	4.4
-3	1.4		80	100	130	-1	500	70	50	8.5	2.1	37	27
3	1.4		62	70	85	1	260	48	27	3	0.6	14	3.8
-5	1.5		41	53	65	-0.9	751	115	80	9.3	2.2	26	51
3.8	1.4	55	65	85		1.5	235	35	18	5	1.6	8.5	2.6
-3.5	1.4	85	102	140		-1.2	325	63	37	3	1.1	11	4.3
<b>6.2</b>	<b>1.3</b>	<b>20</b>	<b>26</b>			<b>2.3</b>	<b>600</b>	<b>70</b>	<b>60</b>	<b>6</b>	<b>2.5</b>	<b>5</b>	<b>6</b>
<b>6.5</b>	<b>1.3</b>	<b>20</b>	<b>26</b>			<b>1.25</b>	<b>660</b>	<b>100</b>	<b>80</b>	<b>7</b>	<b>2</b>	<b>8</b>	<b>6</b>
<b>4</b>	<b>1.3</b>	<b>50</b>	<b>57</b>	<b>72</b>		<b>1.5</b>	<b>340</b>	<b>30</b>	<b>25</b>	<b>4</b>	<b>1.2</b>	<b>5.5</b>	<b>4</b>

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
<b>DFN 1.6x0.6</b>							
AON1605	DFN 1.6x0.6	Single	P	Yes	No	-20	8
AON1606	DFN 1.6x0.6	Single	N	Yes	No	20	8
<b>DFN 1.6x1.6</b>							
AON1634	DFN 1.6x1.6A	Single	N	Yes	No	30	12
<b>DFN 2x2</b>							
AON2410	DFN 2x2	Single	N	No	No	30	12
AON2420	DFN 2x2	Single	N	No	No	30	20
AON2802	DFN 2x2	Dual	N	Yes	No	30	12
AON2810	DFN 2x2	Dual	N	Yes	No	30	12
AON2812	DFN 2x2	Dual	N	Yes	No	30	12
AON2409	DFN 2x2	Single	P	No	No	-30	20
AON2408	DFN 2x2	Single	N	No	No	20	12
AON2405	DFN 2x2	Single	P	No	No	-20	8
AON2406	DFN 2x2	Single	N	No	No	20	8
AON2801	DFN 2x2	Dual	P	No	No	-20	8
AON2803	DFN 2x2	Dual	P	No	No	-20	8
AON2403	DFN 2x2	Single	P	No	No	-12	8
AON2411	DFN 2x2	Single	P	Yes	No	-12	8
<b>DFN 2x5</b>							
AON5802BG	DFN 2x5	Common Drain	N	Yes	No	30	12
AON5816	DFN 2x5	Common Drain	N	Yes	No	20	12
AON5820	DFN 2x5	Common Drain	N	Yes	No	20	12
<b>DFN 3x2</b>							
AON4420L	DFN 3x2	Single	N	No	No	30	20
AON4407	DFN 3x2	Single	P	Yes	No	-12	8
AON4703	DFN 3x2	Single	P	No	Yes	-20	8
AON4421	DFN 3x2	Single	P	No	No	-30	20
AON4803	DFN 3x2	Dual	P	No	No	-20	8
AON4805L	DFN 3x2	Dual	P	No	No	-20	8
AON4605	DFN 3x2	Complementary	N	No	No	30	20
AON4605	DFN 3x2	Complementary	P	No	No	-30	20
<b>DFN 3x3</b>							
AON3414	DFN 3x3	Single	N	Yes	No	30	20
AON3419	DFN 3x3	Single	P	No	No	-30	20
AON3611	DFN 3x3	Complementary	N	No	No	30	20
AON3611	DFN 3x3	Complementary	P	No	No	-30	20
AON7380	DFN 3x3	Single	N	No	No	30	20
AON7400A	DFN 3x3	Single	N	No	No	30	20
AON7406	DFN 3x3	Single	N	No	No	30	20
AON7408	DFN 3x3	Single	N	No	No	30	20
AON7410	DFN 3x3	Single	N	No	No	30	20
AON7414	DFN 3x3	Single	N	No	No	30	20
AON7422G	DFN 3x3	Single	N	Yes	No	30	20
AON7430	DFN 3x3	Single	N	No	No	30	20

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

I <sub>D</sub> (A) 25°C	P <sub>D</sub> (W) 25°C	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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
0.7	0.9		710	930	1250	-1.1	50	12	7.5	0.75	0.2		
0.7	0.9		275	335	390	1	62.5	12.5	9	0.85	0.25		
4	1.8	54	62	82		1.5	245	35	20	2.6	1	6.5	7.5
8	2.8		21	28		1.5	813	98	56	8	2.6	10	2.4
8	2.8	11.7	17.5			2.2	552	227	28	4.3	1.7	13.2	3.2
2	2.1	60	68	88		1.5	245	35	20	2.6	1	2	3
2	2.5	44	52	74		1.4	235	75	15	2.2	0.7	7.2	1.3
4.5	2.5	37	45	70		1.4	235	75	15	2.2	0.7	7.2	1.3
-8	2.8	32	53			-2.3	530	114	75	6	3	12.2	25.4
8	2.8		14.5	19		1.2	782	158	98	7	2.4	11	2.7
-8	2.8		32	41	56	-0.9	1025	167	119	13	3.4	15	4
8	2.8		12.5	15	19	1	1140	165	110	12.5	2.7	11	3
-3	1.1		120	160	200	-1	540	90	63	5	1	21	9.1
-3.8	1.5		70	90	115	-1	560	80	70	8.5	2.1	37	27
-8	2.8		21	28	40	-0.9	1370	350	258	12.7	3.4	20.7	5.2
-20	5		8	11.6	17.5	-0.9	2180	675	425	20	5.5	28	13
11	3.1		6.5	8.5		1.5	1050	90	65	10.5	4	8	10
12	1.7		17	23		1.3	2170	330	270	22	6	23	45
10	1.7		9.5	13		1	1255	200	168	12.5	6.5	11	15
10	1.6	19	25			2.5	550	110	55	4.6	2.2	11	13
-9	2.5		20	25	31	-0.85	1740	334	200	19	5.3	22	17
-3.4	1.7		90	120	160	-1	540	80	49	6.1	1.6	37	27
-8	2.5	26	34			-1.8	930	170	120	8.6	3.4	18	32
-3.4	1.7		90	120	165	-1	540	80	49	6.1	1.6	21	7.5
-4.5	2		65	85	115	-1	560	80	70	8.5	2.1	37	27
4.3	1.9	65	115			3	238	35	30	3.1	1.6	7.5	2.5
-3.4	1.9	110	180			-3	290	42	44	3	1.6	11.3	4.4
10.5	3.1	17	23			2.4	690	105	80	7.5	3	7.5	11.5
-10	3.1	19	32			-2.5	1040	180	125	9.6	4.5	11.5	25
5	2.1	50	70			2.5	170	35	23	2	1	7.5	2.5
-6	2.5	38	62			-2.4	520	100	65	4.6	2.2	11	5.3
24	24	6.8	10.5			2.2	825	335	40	6.2	2.6	11	17
40	25	7.5	10.5			2.5	1150	180	105	9.5	5	8.7	13.5
25	15.5	17	23			2.4	740	110	82	7.5	3	8	18
18	11	20	32			2.6	373	67	41	7.1	1.6	10.5	4.5
24	20	20	26			2.5	550	110	55	4.6	2.2	9	15
20	15.5	15	20			2.2	595	98	70	6.8	3.6	9	15
32	28	4.6	7.2			2.4	2300	240	210	20	12	11	15
34	23	12	16			2.5	760	125	70	6.6	3	7	8

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
AON7466		DFN 3x3	Single	N	No	No	30	25
AON7502		DFN 3x3	Single	N	No	No	30	25
AON7506		DFN 3x3	Single	N	No	No	30	20
AON7522E		DFN 3x3	Single	N	No	No	30	20
AON7524		DFN 3x3	Single	N	Yes	No	30	12
AON7530		DFN 3x3	Single	N	No	No	30	20
AON7534		DFN 3x3	Single	N	No	No	30	20
AON7538		DFN 3x3	Single	N	No	No	30	20
AON7544		DFN 3x3	Single	N	No	No	30	20
AON7566		DFN 3x3	Single	N	Yes	No	30	20
AON7611		DFN 3x3	Complementary	N	No	No	30	20
AON7611		DFN 3x3	Complementary	P	No	No	-30	20
AON7752		DFN 3x3	Single	N	No	Yes	30	20
AON7934		DFN 3x3	Asymmetric	N	No	No	30	20
AON7934		DFN 3x3	Asymmetric	P	No	No	30	20
AON3818		DFN 3x3	Common Drain	N	Yes	No	24	12
AON3820		DFN 3x3	Common Drain	N	Yes	No	24	12
AON3814		DFN 3x3	Common Drain	N	Yes	No	20	12
AON3816		DFN 3x3	Common Drain	N	Yes	No	20	12
AON3402		DFN 3x3	Single	N	Yes	No	20	12
AON7404G		DFN 3x3	Single	N	No	No	20	12
AON7407		DFN 3x3	Single	P	No	No	-20	8
AONR21307		DFN 3x3	Single	P	No	No	-30	25
AONR21321		DFN 3x3	Single	P	No	No	-30	25
AONR21357		DFN 3x3	Single	N	No	No	-30	25
AONR32314		DFN 3x3	Single	N	No	No	30	20
<b>AONR32320C</b>	<b>New</b>	<b>DFN 3x3</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>AONR36326C</b>	<b>New</b>	<b>DFN 3x3</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
AONR36366		DFN 3x3	Single	N	No	No	30	20
AONR36368		DFN 3x3	Single	N	No	No	30	20
AONR66406		DFN 3x3	Single	N	No	No	40	20
<b>AONU32320</b>	<b>New</b>	<b>DFN 3x3</b>	<b>Common Drain</b>	<b>N</b>	<b>Yes</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>DFN 3.3x3.3</b>								
AON7318		DFN 3.3x3.3	Single	N	No	No	30	20
AON7428		DFN 3.3x3.3	Single	N	No	No	30	20
AON7442		DFN 3.3x3.3	Single	N	No	No	30	20
AON7510		DFN 3.3x3.3	Single	N	No	No	30	20
AON7520		DFN 3.3x3.3	Single	N	Yes	No	30	12
AON7528		DFN 3.3x3.3	Single	N	Yes	No	30	20
AON7421		DFN 3.3x3.3	Single	P	No	No	-20	12
AON7405		DFN 3.3x3.3	Single	P	No	No	-30	25
<b>DFN 3.3x3.3 (XSPairFET™)</b>								
AONE36132		DFN 3.3x3.3	Asymmetric	N	No	No	25	12
AONE36132		DFN 3.3x3.3	Asymmetric	N	No	No	25	12
<b>AONP36336</b>	<b>New</b>	<b>DFN 3.3x3.3</b>	<b>Asymmetric</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>12</b>
<b>AONP36336</b>	<b>New</b>	<b>DFN 3.3x3.3</b>	<b>Asymmetric</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>12</b>

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
30	25	7.5	10.5			2.5	1150	180	105	4.6	5	8.7	13.5
30	31	4.7	7.6*			3	1022	574	63	6.2	3.5	15.3	20
12	20.5	9.8	15.8			2.3	542	233	31	4.3	1.7	9.7	11.5
34	31	4	6.8			2.2	1540	485	448	19.7	15	15.2	22.2
28	32	3.3	4	5.8		1.2	2250	800	65	16	5.2	16	23
30	24	4.7	7.2			2.2	1320	530	70	8.8	4	13.5	20.6
30	23	5	8.5			2.2	1037	441	61	6.8	3.6	12.7	17.2
30	24	5.1	8.2			2.2	1128	435	59	7.4	2.3	13.3	25
30	23	5	8.5			2.2	951	373	62	7.5	3.2	10.2	13.6
34	30	3.7	5.2			2.4	3020	330	280	28	17.5	12	20
9	7	50	70			2.5	170	35	23	2	1	7.5	2.5
-18.5	20.8	38	62			-2.4	520	100	65	4.6	2.2	11	5.3
16	20	8.2	14.5			2.5	605	275	36.5	5.5	2.6	11.5	12.5
16	23	10.2	15.8			2.2	485	235	32	3.9	2.1	9.9	12.9
18	25	7.7	11.6			2.2	807	314	40	6	3	11.3	15
8	2.7		13.5	21		1.2	840	210	205	9.5	4.5	1.7	5.2
8	2		8.9	11.8		1.3	1325	250	220	12.5†	6		
6	2.5		17	24		1.1	920	155	75	11	3.2	7.9	4.4
4	2.5		22	28		1.1	920	155	75	11	3.2	7.9	4.4
12	3	13	17	26		1	1810	232	200	17.9	4.7	20.2	8
20	28		5.3	6.8		1.25	3300	485	370	31	8	17	30
-40	29		9.5	12.5	18	-0.9	3495	528	425	44†	11	33	100
-24	28	11	18.5			-2.3	1995	300	260	17	8.8	13.3	20
-24	24	16.5	29.5			-2.3	1180	185	155	11	3	10	15
-34	30	7.8	12.3			-2.3	2830	430	365	25	12	62	32
30	24	8.7	12.3			2.25	1420	150	95	10	4	7.5	9
<b>12</b>	<b>11</b>	<b>21</b>	<b>30</b>			<b>2.3</b>	<b>650</b>	<b>70</b>	<b>50</b>	<b>7</b>	<b>2.5</b>	<b>5</b>	<b>5</b>
<b>12</b>	<b>20.5</b>	<b>9.8</b>	<b>15.9</b>			<b>2.3</b>	<b>540</b>	<b>230</b>	<b>30</b>	<b>4.3</b>	<b>1.7</b>	<b>9.7</b>	<b>11.5</b>
34	28	3.5	5.2			2.1	1835	480	45	11	2.2	13	24
32	24	5	7.5			2.1	1305	340	33	7.5	2.2	11	18
30	27	6.1	9.4			2.5	1480	245	13	8.5	3	11	21
<b>15</b>	<b>16.5</b>	<b>13</b>	<b>18.5</b>			<b>2.3</b>	<b>1500</b>	<b>160</b>	<b>130</b>	<b>13</b>	<b>5.5</b>	<b>7</b>	<b>10</b>
50	39	1.95	3.1			2.3	2840	740	80	16.5	4	15.5	36.5
50	83	2.8	3.6			2.3	2600	430	280	24	8	18	37
50	83	1.9	3.3			2.2	2994	1276	196	23	10	20	46
75	46	1.25	2.1			2.0	4500	1400	1310	60	40	23	49
50	83.3	1.8	2.1	3.1		1.2	4175	1505	300	37	12.5	20.3	40.7
50	83	2	3.4			2.2	2895	1439	149	21.3	9	22.3	54
-50	83	4.6	5.8	9		-1.2	4550	823	563	44	14	30	75
-50	83	6.2	8.9*			-2.8	2450	550	370	21	12	25	47
60	25	4.6	6			1.8	880	250	55	6.5	2.5	9	11.5
60	35.5	1.4	1.7			1.8	3215	860	200	25	5	16	33.5
<b>50</b>	<b>33</b>	<b>4.7</b>	<b>5.7</b>			<b>1.9</b>	<b>1330</b>	<b>280</b>	<b>35</b>	<b>8</b>	<b>2</b>	<b>11</b>	<b>19</b>
<b>50</b>	<b>30</b>	<b>5.8</b>	<b>7.3</b>			<b>1.9</b>	<b>940</b>	<b>210</b>	<b>30</b>	<b>6</b>	<b>1.6</b>	<b>10</b>	<b>14</b>

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.



## Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
<b>DFN 4x3A</b>								
<b>AONL32328</b>	<i>New</i>	<b>DFN 4x3</b>	<b>Complementary</b>	<b>P</b>	<b>No</b>	<b>No</b>	<b>-30</b>	<b>20</b>
<b>AONL32328</b>	<i>New</i>	<b>DFN 4x3</b>	<b>Complementary</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>DFN 5x6</b>								
AON6204		DFN 5x6	Single	N	No	No	30	20
AON6312		DFN 5x6	Single	N	No	No	30	20
AON6314		DFN 5x6	Single	N	No	No	30	30
AON6354		DFN 5x6	Single	N	No	No	30	20
AON6358		DFN 5x6	Single	N	No	No	30	20
AON6362		DFN 5x6	Single	N	No	No	30	20
AON6366E		DFN 5x6	Single	N	Yes	No	30	20
AON6368		DFN 5x6	Single	N	No	No	30	20
AON6380		DFN 5x6	Single	N	No	No	30	20
AON6382		DFN 5x6	Single	N	No	No	30	20
AON6384		DFN 5x6	Single	N	No	No	30	20
AON6414A		DFN 5x6	Single	N	No	No	30	20
AON6428		DFN 5x6	Single	N	No	No	30	20
AON6500		DFN 5x6	Single	N	No	No	30	20
AON6516		DFN 5x6	Single	N	No	No	30	20
AON6522		DFN 5x6	Single	N	No	No	25	20
AON6528		DFN 5x6	Single	N	No	No	30	20
AON6548		DFN 5x6	Single	N	No	No	30	20
AON6552		DFN 5x6	Single	N	No	No	30	20
AON6558		DFN 5x6	Single	N	No	No	30	20
AON6560		DFN 5x6	Single	N	No	No	30	20
AON6566		DFN 5x6	Single	N	No	No	30	20
AON6572		DFN 5x6	Single	N	No	No	30	12
AON6576		DFN 5x6	Single	N	No	No	30	20
AON6586		DFN 5x6	Single	N	No	No	30	20
AON6588		DFN 5x6	Single	N	No	No	30	20
AON6590		DFN 5x6	Single	N	No	No	40	20
AON6594		DFN 5x6	Single	N	No	No	30	20
AON6596		DFN 5x6	Single	N	No	No	30	20
AON6661		DFN 5x6	Complementary	N	No	No	30	20
AON6661		DFN 5x6	Complementary	P	No	No	-30	20
AON6667		DFN 5x6	Complementary	N	No	No	30	20
AON6667		DFN 5x6	Complementary	P	No	No	-30	20
AON6792		DFN 5x6	Single	N	No	Yes	30	12
AON6403		DFN 5x6	Single	P	No	No	-30	20
AON6405		DFN 5x6	Single	P	Yes	No	-30	20
AON6407		DFN 5x6	Single	P	No	No	-30	25
AON6411		DFN 5x6	Single	P	No	No	-20	12
AON6816		DFN 5x6	Dual	N	Yes	No	30	20
AOND32324		DFN 5x6	Dual	N	No	No	30	20
AOND32324		DFN 5x6	Dual	P	No	No	-30	20

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
-7	2.6	27	45			2.4	510	220	22	3.5	1.4	11	12
85	50	1.85	2.5			2.2	3100	875	105	20	6	17	36
24	31	12	18			2.4	510	220	22	3.5	1.4	11	17
85	50	1.85	2.5			2.2	3100	875	105	20	6	17	36
85	32.5	2.8	3.5			2.0	1900	400	60	13	3.6	12	21.5
83	36	3.3	5.2			2.2	1330	360	55	10	3.5	11	17
85	48	2.2	3.6			2.2	2200	1000	100	15	4.7	17	42
60	31	5.2	8.6			2.2	820	340	40	6.1	2.4	11	19
34	46	3.7	5.2			2.4	3020	330	280	28	17	12	20
52	27	6.1	9.5			2.2	820	340	40	6.1	2	11	19
24	26	6.8	10.5			2.2	825	335	40	6.2	2.6	11	17
85	50	1.85	2.5			2.2	3100	875	105	20	6	17	36
83	36	3.3	5.2			2.2	1330	360	55	10	3.5	11	17
50	31	8	10.5			2.5	1150	180	105	9.5	5	8.7	13.5
43	30	10	14.5			2.2	770	240	77	7.1	3.1	11	23
200	83	0.95	1.3			2	7036	2778	353	49.7	21.4	31	106
56	25	5	8			2.2	1229	526	83	12	5.5	12.6	15.2
200	83	950	1.3			2	7036	2778	353	49.7	21.4	31	106
30	25	6.3	9.8			2.2	1037	441	61	6.8	3.6	12.7	17.2
85	83	1.8	2.5			2.2	4290	1680	300	31.2	14.6	23.5	60
30	25	5	8.5			2.2	1037	441	61	6.8	3.6	12.7	17.2
30	24	5.1	8.2			2.2	1128	435	59	7.4	2.3	13.3	25
200	208	0.68	1.1			2.2	11500	3400	3100	130	92	38.5	120
32	25	5	8.5			2.4	1300	530	75	8.5	2.5	14	25
85	48	3.2	3.9			2	3290	855	135	20.3	4.4	16.5	31
32	26	4.7	7.2			2.2	1320	530	70	8.8	4	13.5	20.6
35	41	7.5	10.5			2.5	1150	180	105	9.5	5	8.7	13.5
32	46	3.3	4.8			2.2	2160	915	115	14	6.3	16.5	34.2
100	208	0.99	1.5			2.3	8320	1438	85	45	7	26	83
35	39	7	11			2.2	1037	441	61	6.8	3.6	12.7	17.2
35	41	7.5	10.5			2.5	1150	180	105	9.5	5	8.7	13.5
16	12.5	14	18			2.5	760	125	70	6.6	3	7	8
-16	20	22	35			-2.5	1040	180	125	9.6	4.6	11.5	25
16	10	25	35			2.6	373	67	41	3.5	1.6	6	6.6
-16	20	22	35			-2.5	1040	180	125	9.6	4.6	11.5	25
85	48	2	2.5			1.9	3110	930	100	21	5.6	17.5	43
-85	83	3.1	4.3			-2.2	7600	1320	1050	79	33	26	78
-30	83	7	8			-1.6	4580	755	564	41	17	32	77
-85	83	4.5	6*			-2.6	3505	900	650	75†	23	35	75
-85	156	2.1	2.5	3.6		-1.3	10290	1910	1395	100	36	48	178
16	21	6.2	9.6			2.2	1540	485	448	19.7	15	15.2	22.2
16	12.5	14	18			2.5	760	125	70	6.6	3	7	8
-16	30	12	19.5			-2.3	1995	300	260	17	8.8	13.3	20

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
AONS21307		DFN 5x6	Single	P	No	No	-30	25
AONS21357		DFN 5x6	Single	N	No	No	-30	25
<b>AONS32100</b>	<b>New</b>	<b>DFN 5x6</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>25</b>	<b>20</b>
<b>AONS32302</b>	<b>New</b>	<b>DFN 5x6</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
AONS32304		DFN 5x6	Single	N	No	No	30	20
AONS32306		DFN 5x6	Single	N	No	No	30	20
<b>AONS32310</b>	<b>New</b>	<b>DFN 5x6</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
AONS32314		DFN 5x6	Single	N	No	No	30	20
AONS36314		DFN 5x6	Single	N	No	No	30	12
AONS36316		DFN 5x6	Single	N	No	No	30	12
<b>AONS36344</b>	<b>New</b>	<b>DFN 5x6</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>AONS36346</b>	<b>New</b>	<b>DFN 5x6</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>AONS36348</b>	<b>New</b>	<b>DFN 5x6</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
AONS66612		DFN 5x6	Single	N	No	No	60	20
<b>DFN 5x6 (PairFET™)</b>								
AON6810		DFN 5x6	Common Drain	N	Yes	No	30	20
AON6812		DFN 5x6	Common Drain	N	Yes	No	30	20
AON6906A		DFN 5x6	Asymmetric	N	No	No	30	20
AON6906A		DFN 5x6	Asymmetric	N	No	No	30	20
AON6912A		DFN 5x6	Asymmetric	N	No	No	30	20
AON6912A		DFN 5x6	Asymmetric	N	No	No	30	20
AON6926		DFN 5x6	Asymmetric	N	No	No	30	20
AON6926		DFN 5x6	Asymmetric	N	No	No	30	20
AON6934A		DFN 5x6	Asymmetric	N	No	No	30	20
AON6934A		DFN 5x6	Asymmetric	N	No	No	30	20
AON6946		DFN 5x6	Asymmetric	N	No	No	30	20
AON6946		DFN 5x6	Asymmetric	N	No	No	30	20
AON6980		DFN 5x6	Asymmetric	N	No	No	30	20
AON6980		DFN 5x6	Asymmetric	N	No	Yes	30	12
AON6982		DFN 5x6	Asymmetric	N	No	No	30	20
AON6982		DFN 5x6	Asymmetric	N	No	Yes	30	12
AON6984		DFN 5x6	Asymmetric	N	No	No	30	20
AON6984		DFN 5x6	Asymmetric	N	No	Yes	30	12
AON6992		DFN 5x6	Asymmetric	N	No	No	30	20
AON6992		DFN 5x6	Asymmetric	N	No	Yes	30	12
AON6994		DFN 5x6	Asymmetric	N	No	No	30	20
AON6994		DFN 5x6	Asymmetric	N	No	Yes	30	12
AON6996		DFN 5x6	Asymmetric	N	No	No	30	20
AON6996		DFN 5x6	Asymmetric	N	No	Yes	30	12
AON6998		DFN 5x6	Asymmetric	N	No	No	30	20
AON6998		DFN 5x6	Asymmetric	N	No	Yes	30	12
AONY36352		DFN 5x6	Asymmetric	N	No	No	30	20
AONY36352		DFN 5x6	Asymmetric	N	No	No	30	12
AONY36354		DFN 5x6	Asymmetric	N	No	No	30	20
AONY36354		DFN 5x6	Asymmetric	N	No	No	30	12

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

	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>	C <sub>iss</sub>	C <sub>oss</sub>	C <sub>rss</sub>	Q <sub>g</sub>	Q <sub>gd</sub>	T <sub>rr</sub>	Q <sub>rr</sub>
	25°C	25°C	10V	4.5V	2.5V	1.8V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
	-24	38	11	18.5			-2.3	1995	300	260	17	8.8	13.3	20
	-36	48	7.8	12.3			-2.3	2830	430	365	25	12	62	32
	<b>400</b>	<b>400</b>	<b>0.73</b>	<b>1.08</b>			<b>1.6</b>	<b>15200</b>	<b>2000</b>	<b>1400</b>	<b>115</b>	<b>115</b>	<b>25</b>	<b>70</b>
	<b>220</b>	<b>119</b>	<b>1.35</b>	<b>1.9</b>			<b>2.3</b>	<b>6060</b>	<b>710</b>	<b>550</b>	<b>54</b>	<b>25</b>	<b>16</b>	<b>40</b>
	140	78	2.3	3.2			2.1	5970	580	340	40	13	13	25
	36	50	3.6	4.7			2.1	4080	410	265	29	9.5	11	19
	<b>400</b>	<b>400</b>	<b>1.05</b>	<b>1.43</b>			<b>1.8</b>	<b>15350</b>	<b>1430</b>	<b>900</b>	<b>110</b>	<b>35</b>	<b>20</b>	<b>65</b>
	32	25	8.7	12.3			2.25	1420	150	95	10	4	7.5	9
	85	42	2.9	3.5			1.9	1890	395	55	11.5	2.5	12	21
	32	26	4.1	4.9			1.9	2005	430	50	13.5	3.5	12	21
	<b>83</b>	<b>36</b>	<b>3.28</b>	<b>5.15</b>			<b>2.2</b>	<b>1320</b>	<b>350</b>	<b>54</b>	<b>10</b>	<b>3.6</b>	<b>11</b>	<b>17</b>
	<b>60</b>	<b>31</b>	<b>5.5</b>	<b>9.5</b>			<b>2.1</b>	<b>800</b>	<b>240</b>	<b>35</b>	<b>5</b>	<b>2</b>	<b>10</b>	<b>13</b>
	<b>50</b>	<b>26</b>	<b>7</b>	<b>11.5</b>			<b>2.1</b>	<b>800</b>	<b>240</b>	<b>35</b>	<b>5</b>	<b>2</b>	<b>10</b>	<b>13</b>
	100	208	1.65				3.5	5300	1500	50	78	20	30	135
	20	31	4.4	6.5			2.2	1720	746	61	11	3.2	20	30
	28	31	4	6			2.2	1720	746	61	11	3.2	20	30
	48	45	11.7	17.5			2.3	570	260	20	3.5	1.4	8.6	14.1
	37	31	14.4	21.3			2.4	510	220	22	3.3	1.4	9	14.7
	52	30	7.3	10.4			2.5	1090	125	38	7	2.5	7	8
	34	22	13.7	19.3			2.5	760	490	70	6.6	3	13	25
	50	35	8.5	12			2.4	1130	180	40	8	3	6.7	13.5
	44	31	11	14			2.5	1150	465	105	9.5	5	12	23
	28	31	5.2	9.5			2.2	1037	441	61	6.8	3.6	12	17.2
	36	33	2.9	4.4			2.2	2010	898	124	17	8	14	20.3
	16	7.3	11.6	17			2.2	485	235	32	3.9	2.1	9.9	12.9
	18	13	7.8	11.8			2.2	807	314	40	6	3	11.3	15
	28	23.5	6.8	10.3			2.2	1095	270	28	6.4	2	11	24
	36	32	3.8	4.9			2	3440	515	60	21	3.7	15.7	31.8
	50	21	5.2	8.4			2.2	810	335	39	6	2.3	11	19
	85	45	2	2.45			1.9	3080	920	99	20.7	5.5	17.5	43
	50	21	5.2	8.4			2.2	810	335	39	6	2.3	11	19
	82	31	2.8	3.45			1.9	2120	700	69	16.8	4.9	15.5	33
	50	21	5.2	8.6			2.2	820	340	40	6.1	2.4	11	19
	85	45	2	2.5			1.9	3110	930	100	21	5.6	17.5	43
	50	21	5.2	8.6			2.2	820	340	40	6.1	2.4	11	19
	82	31	2.8	3.5			1.9	2150	710	70	17	5	15.5	33
	50	21	5.2	8.6			2.2	820	340	40	6.1	2.4	11	19
	60	22	3.9	5			1.9	1350	450	60	10.5	3	13	22
	50	21	5.2	8.6			2.2	820	340	40	6.1	2.4	11	19
	82	31	2.6	2.99			1.9	2150	710	70	17	5	15.5	33
	49	21	5.3	9.1			2.1	820	230	35	5	1.5	9.5	12.5
	85	45	2	2.5			1.9	2555	520	75	16	3	14	26.5
	49	21	5.3	9.1			2.1	820	230	35	5	1.5	9.5	12.5
	85	31.5	2.6	3.5			1.9	1890	395	55	11.5	2.5	12	21

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
<b>AONY36356</b>	<i>New</i>	<b>DFN 5x6</b>	<b>Asymmetric</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>12</b>
<b>AONY36356</b>	<i>New</i>	<b>DFN 5x6</b>	<b>Asymmetric</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>DFN 5x6E (XSPairFET™)</b>								
AOE6930		DFN 5x6E	Asymmetric	N	No	No	30	20
AOE6930		DFN 5x6E	Asymmetric	N	No	No	30	12
AOE6932		DFN 5x6E	Asymmetric	N	No	No	30	20
AOE6932		DFN 5x6E	Asymmetric	N	No	No	30	12
AOE6936		DFN 5x6E	Asymmetric	N	No	No	30	20
AOE6936		DFN 5x6E	Asymmetric	N	No	No	30	20
<b>SO-8</b>								
AO4306		SO-8	Single	N	No	No	30	20
AO4402G		SO-8	Single	N	No	No	20	12
AO4404B		SO-8	Single	N	No	No	30	12
AO4406A		SO-8	Single	N	No	No	30	20
AO4466		SO-8	Single	N	No	No	30	20
AO4468		SO-8	Single	N	No	No	30	20
AO4492		SO-8	Single	N	No	No	30	20
AO4496		SO-8	Single	N	No	No	30	20
AO4576		SO-8	Single	N	No	No	30	20
AO4752		SO-8	Single	N	No	Yes	30	20
AO4402		SO-8	Single	N	No	No	20	12
AO4453		SO-8	Single	P	No	No	-12	8
AO4403		SO-8	Single	P	No	No	-30	12
AO4405		SO-8	Single	P	No	No	-30	20
AO4405E		SO-8	Single	P	Yes	No	-30	20
AO4411		SO-8	Single	P	No	No	-30	20
AO4419		SO-8	Single	P	No	No	-30	20
AO4449		SO-8	Single	P	No	No	-30	20
AO4459		SO-8	Single	P	No	No	-30	20
AO4425		SO-8	Single	P	Yes	No	-38	25
AO4840E		SO-8	Dual	N	No	No	40	20
AO4800		SO-8	Dual	N	No	No	30	12
AO4800B		SO-8	Dual	N	No	No	30	12
AO4812		SO-8	Dual	N	No	No	30	20
AO4818		SO-8	Dual	N	Yes	No	30	20
AO4818B		SO-8	Dual	N	Yes	No	30	20
AO4822		SO-8	Dual	N	No	No	30	20
AO4822A		SO-8	Dual	N	No	No	30	20
AO4832		SO-8	Dual	N	No	No	30	20
AO4838		SO-8	Dual	N	No	No	30	20
AO4842		SO-8	Dual	N	No	No	30	20
AO4854		SO-8	Dual	N	Yes	No	30	20
AO4862		SO-8	Dual	N	No	No	30	20
AO4862E		SO-8	Dual	N	No	No	30	20
AO4806		SO-8	Dual	N	Yes	No	20	12
AO9926B		SO-8	Dual	N	No	No	20	12

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

	I <sub>D</sub> (A)	P <sub>D</sub> (W)	R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> =				VGS(th)	Ciss	Coss	Crss	Qg	Qgd	Trr	Qrr
	25°C	25°C	10V	4.5V	2.5V	1.8V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
	3.8	4.7	6.1	9.6			2.1	920	300	35	6	2	11	18
	6.1	9.6	3.8	4.7			1.9	2005	430	50	13.5	3.5	12	21
	22	24	4.3	7			2.1	1075	480	55	7	2.5	12.5	21.5
	85	75	0.83	1.05			1.9	5560	1670	200	42	12	23	72.5
	55	24	5	8			2.2	1150	380	55	7.5	3	11.5	20
	85	52	1.4	1.8			1.9	4180	880	125	30	7	17	42
	55	24	5	8			2.2	1150	380	55	7.5	3	11.5	20
	85	39	2	3			2.1	2270	650	90	15	4.5	14.5	30
	13	3.1	11.5	15.5			2.5	760	125	70	6.6	3	7	8
	20	3.1		5.9	7.3		1.25	3300	485	370	31	8	17	30
	8.5	3.1	24	30	48		1.45	630	75	50	6	1.8	8.5	2.6
	13	3.1	11.5	15.5			2.5	760	125	70	6.6	3	7	8
	10	3.1	23	35			2.6	373	67	41	3.5	1.6	6	6.6
	10.5	3.1	17	23			2.4	740	110	82	7.5	3	18	9
	14	3.1	9.5	14			2.2	770	240	77	7.1	3.1	11	23
	10	3.1	19.5	26			2.5	550	110	55	4.6	2.2	22	14
	20	3.1	5.8	9.8			2.2	1037	441	61	6.8	3.6	12.7	17.2
	15	3.1	8.8	15.5			2.5	605	275	36.5	5.5	2.6	11.5	12.5
	20	3.1		5.5	7		1.6	3860	740	580	36	12	17	36
	-9	2.5		19	26	36	-0.9	1370	350	258	12.7	3.4	20.7	5.2
	-6	3.1	48	57	80		-1.3	645	80	55	7	2.5	11	3.5
	-6	3.1	50	85			-2.4	520	100	65	4.6	2.2	11	5.3
	-6	2.5	45	80			-1.5	495	100	56	4.2	2	9	13.5
	-8	3.1	32	55			-2.4	760	140	95	6.7	3.2	15	9.7
	-9.7	3.1	20	35			-2.5	1040	180	125	9.6	4.6	11.5	25
	-7	3.1	34	54			-2.4	760	140	95	6.7	3.2	15	9.7
	-6.5	3.1	46	72			-2.4	520	100	65	4.6	2.2	11	5.3
	-14	3.1	11				-3.5	3800	560	350	63†	16.1	35	33
	6	2	28	35			2.6	520	65	32	4.5	16.2	8	13
	6.9	2	27	32	50		1.5	630	75	50	6	1.8	8.5	2.6
	6.9	2	27	32	50		1.5	630	75	50	6	1.8	8.5	2.6
	6	2	30	42			2.4	255	45	35	2.55	1.3	8.5	2.2
	8.5	2	19	26			2.4	740	110	82	7.5	3	8	18
	8.5	2	19	26			2.4	740	110	82	7.5	3	8	18
	8	2	19	26			2.4	740	110	82	7.5	3	8	18
	8.5	2	19	26			2.4	740	110	82	7.5	3	8	18
	10	2	13	17.5			2.5	760	125	70	6.6	3	7	8
	11	2	9.6	13			2.6	1080	180	110	8	3	8.5	13
	7.7	2	21	30			2.6	373	67	41	3.5	1.7	10.5	4.5
	8	2	19	23			2.4	740	110	82	7.5	3	8	18
	4.5	1.7	50	68			2.5	200	35	25	2	1	7.5	2.5
	4.5	1.7	46	65			2.5	215	35	20	2	1	5.5	7
	9.4	2	14	16	22	30	1	1810	232	200	17.9	4.7	22	8.6
	7.6	2	23	26	34	52	1.1	525	95	75	6	2	14	6

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
AO9926C		SO-8	Dual	N	No	No	20	12
AO4801		SO-8	Dual	P	No	No	-30	12
AO4801A		SO-8	Dual	P	No	No	-30	12
AO4803		SO-8	Dual	P	No	No	-30	20
AO4803A		SO-8	Dual	P	No	No	-30	20
AO4805		SO-8	Dual	P	No	No	-30	25
AO4807		SO-8	Dual	P	No	No	-30	20
AO4813		SO-8	Dual	P	No	No	-30	20
AO4606		SO-8	Complementary	N	No	No	30	20
AO4606		SO-8	Complementary	P	No	No	-30	20
AO4616		SO-8	Complementary	N	No	No	30	20
AO4616		SO-8	Complementary	P	No	No	-30	20
AO4620		SO-8	Complementary	N	No	No	30	20
AO4620		SO-8	Complementary	P	No	No	-30	20
AO4627		SO-8	Complementary	N	No	No	30	20
AO4627		SO-8	Complementary	P	No	No	-30	20
AO4629		SO-8	Complementary	N	No	No	30	20
AO4629		SO-8	Complementary	P	No	No	-30	20
AO4630		SO-8	Complementary	N	No	No	30	12
AO4630		SO-8	Complementary	P	No	No	-30	12
AO4914		SO-8	Asymmetric	N	No	No	30	20
AO4914		SO-8	Asymmetric	N	No	Yes	30	20
AO4924		SO-8	Asymmetric	N	No	No	30	12
AO4924		SO-8	Asymmetric	N	No	Yes	30	12
AONS21321		SO-8	Single	P	No	No	-30	25
<b>AOSD32334C</b>	<b>New</b>	<b>SO-8</b>	<b>Dual</b>	<b>N</b>	<b>Yes</b>	<b>No</b>	<b>30</b>	<b>20</b>
AOSP21307		SO-8	Single	P	No	No	-30	25
AOSP21321		SO-8	Single	P	No	No	-30	25
AOSP21357		SO-8	Single	N	Yes	No	-30	25
AOSP32314		SO-8	Single	N	No	No	30	20
AOSP32368		SO-8	Single	N	Yes	No	30	20
<b>AOSP32320C</b>	<b>New</b>	<b>SO-8</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>AOSP36326C</b>	<b>New</b>	<b>SO-8</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>Ultra SO-8</b>								
AOL1404G		Ultra SO-8	Single	N	No	No	20	12
AOUS66923		Ultra SO-8	Single	N	No	No	100	20
<b>TO-251A</b>								
AOI423		TO-251A	Single	P	No	No	-30	25
AOI21357		TO-251A	Single	P	No	No	-30	25
<b>TO-252</b>								
<b>AOD32334C</b>	<b>New</b>	<b>TO-252</b>	<b>Single</b>	<b>P</b>	<b>Yes</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>TSOP-6</b>								
AO6400		TSOP-6	Single	N	No	No	30	12
AO6402A		TSOP-6	Single	N	No	No	30	20
AO6424		TSOP-6	Single	N	No	No	30	20
AO6424A		TSOP-6	Single	N	No	No	30	20

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
7.6	2	23	26	34	52	1.1	525	95	75	6	2	14	6
-5	2	48	57	80		-1.3	645	80	55	7	2.5	11	3.5
-5	2	48	57	80		-1.3	645	80	55	7	2.5	11	3.5
-5	2	46	74			-2.5	520	100	65	4.6	2.2	11	5.3
-5	2	46	74			-2.5	520	100	65	4.6	2.2	11	5.3
-9	2	18				-2.8	2060	370	295	30 <sup>†</sup>	10	30	22
-6	2	35	58			-2.4	760	140	95	6.7	3.2	15	9.7
-7.1	2	25	40			-2.5	1040	180	125	9.3	4.6	11.5	25
6	2	30	42			2.4	255	45	35	2.55	1.3	8.5	2.2
-6.5	2	28	44			-2.4	760	140	95	6.7	3.2	15	9.7
8.5	2	20	28			2.4	740	110	82	7.5	3	8	18
-7	2	22	40			-2.5	1040	180	125	9.6	4.6	11.5	25
7.2	2	24	36			2.6	373	67	41	3.5	1.7	10.5	4.5
-5.3	2	32	55			-2.4	760	140	95	6.7	3.2	15	9.7
4.5	2	50	68			2.5	170	35	23	2	1	7.5	2.5
-3.5	2	100	165			-2.4	197	42	26	2.2	1.1	11.3	4.4
6	2	30	42			2.4	250	45	35	2.55	1.3	8.5	2.2
-5.5	2	41	74			-2.5	520	100	65	4.6	2.2	11	5.3
7	2	23	28	36		1.45	670	75	45	6	14.5	6.5	7.5
-5	2	48	57	78		-1.3	700	80	60	7		15	40
8.5	2	20.5	28			2.4	730	165	82	7.5	3	8	8
8.5	2	20.5	28			2.4	740	110	82	7.5	3	8	18
7.3	2	24	29			1.5	900	224	65	10	3.75	10	6.8
9	2	15.8	19.5			2.4	1450	88	92	12	4.2	16.8	8
-24	24.5	16.5	29.5			-2.3	1180	185	155	11	3	13	23
<b>7</b>	<b>1.7</b>	<b>20</b>	<b>26</b>			<b>2.3</b>	<b>600</b>	<b>70</b>	<b>60</b>	<b>6</b>	<b>2.5</b>	<b>5</b>	<b>6</b>
-14	3.1	11.5	18.5			-2.3	1995	300	260	17	8.8	13.3	20
-11	3.1	17	30			-2.3	1180	185	155	11	3	10	15
-16	3.1	8.5	13			-2.3	2830	430	365	25	12	62	32
14.5	3.1	9	12.6			2.25	1420	150	95	10	4	7.5	9
16	3.1	5.5	7.5			2.4	2270	245	200	18	10	10.5	16
<b>8.5</b>	<b>2.5</b>	<b>22</b>	<b>30</b>			<b>2.3</b>	<b>650</b>	<b>70</b>	<b>50</b>	<b>7</b>	<b>2.5</b>	<b>5</b>	<b>5</b>
<b>12</b>	<b>2.5</b>	<b>11</b>	<b>17</b>			<b>2.3</b>	<b>542</b>	<b>233</b>	<b>31</b>	<b>4.3</b>	<b>1.7</b>	<b>9.7</b>	<b>11.5</b>
46	50		4.6	6		1.25	3300	485	370	31	8	17	30
58	73	11	15			2.6	1725	360	7.5	12.5	3.5	41	156
-70	90	8.5				-3.5	2760	550	375	45 <sup>†</sup>	12	15	30
-70	78	8	13			-2.3	2830	430	365	25	12	32	62
<b>12</b>	<b>18</b>	<b>20</b>	<b>26</b>			<b>2.3</b>	<b>600</b>	<b>70</b>	<b>60</b>	<b>55</b>	<b>27</b>	<b>5.5</b>	<b>6</b>
6.9	2	28	33	52		1.45	630	75	50	6	1.8	8.5	2.6
7.5	2	24	35			2.6	373	67	41	3.5	1.7	10.5	4.5
5	1.25	31	43			2.4	255	45	35	2.55	1.3	8.5	2.2
6.5	2.5	35	48			2.4	270	50	35	3.2	1.75	10	2.3

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.



## Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
AO6432		TSOP-6	Single	N	No	No	30	20
AO6404		TSOP-6	Single	N	No	No	20	12
AO6409		TSOP-6	Single	P	Yes	No	-20	8
AO6409A		TSOP-6	Single	P	Yes	No	-20	8
AO6415		TSOP-6	Single	P	Yes	No	-20	12
AO6401		TSOP-6	Single	P	No	No	-30	12
AO6401A		TSOP-6	Single	P	No	No	-30	12
AO6405		TSOP-6	Single	P	No	No	-30	20
AO6800		TSOP-6	Dual	N	No	No	30	12
AO6802		TSOP-6	Dual	N	No	No	30	20
AO6804A		TSOP-6	Dual	N	yes	No	20	12
AO6808		TSOP-6	Common Drain	N	Yes	No	20	12
AO6601		TSOP-6	Complementary	N	No	No	30	12
AO6601		TSOP-6	Complementary	P	No	No	-30	12
AO6602G		TSOP-6	Complementary	N	No	No	30	20
AO6602G		TSOP-6	Complementary	P	No	No	-30	20
AO6604		TSOP-6	Complementary	N	No	No	20	8
AO6604		TSOP-6	Complementary	P	No	No	-20	8
AO6608		TSOP-6	Complementary	N	No	No	30	12
AO6608		TSOP-6	Complementary	P	No	No	-20	8
<b>AOTS32334C</b>	<b>New</b>	<b>TSOP-6</b>	<b>Single</b>	<b>N</b>	<b>Yes</b>	<b>No</b>	<b>30</b>	<b>20</b>
<b>AOTS32338C</b>	<b>New</b>	<b>TSOP-6</b>	<b>Dual</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>30</b>	<b>12</b>
<b>TSSOP-8</b>								
AO8808A		TSSOP-8	Dual	N	Yes	No	20	12
AO8801A		TSSOP-8	Dual	P	Yes	No	-20	8
AO8810		TSSOP-8	Common Drain	N	Yes	No	20	8
AO8814		TSSOP-8	Common Drain	N	Yes	No	20	12
AO8820		TSSOP-8	Common Drain	N	Yes	No	20	12
AO8822		TSSOP-8	Common Drain	N	Yes	No	20	12
<b>AOTE32136C</b>	<b>New</b>	<b>TSSOP-8</b>	<b>Common Drain</b>	<b>N</b>	<b>Yes</b>	<b>No</b>	<b>20</b>	<b>12</b>

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
7.5	2	24	35			2.6	373	67	41	3.5	1.7	10.5	4.5
8.6	2	17	18	24	33	1	1810	232	200	17.9	4.7	22	9.8
-5.5	2.1		41	53	65	-0.9	751	115	80	9.3	2.2	26	51
-5.5	2.1		41	53	65	-0.9	751	115	80	9.3	2.2	26	51
-3.3	1.25	82	100	140		-1.2	325	63	37	3.2	0.9	6.1	1.4
-5	2	47	64	85		-1.3	645	80	55	7	2.5	11	3.5
-5	2	47	64	85		-1.3	645	80	55	7	2.5	11	3.5
-5	2	52	87			-2.4	520	100	65	4.6	2.2	11	5.3
3.4	1.15	60	70	90		1.5	235	35	18	4.7	1.6	8.5	2.55
3.5	1.15	50	70			2.5	170	35	23	2	1	7.5	2.5
5	1.3		28	39		1	580	95	70	5.8	2.4	32	
4.6	0.8		19	23		1	620	125	64	7.7	2.7	25	9
3.4	1.15	60	70	90		1.5	235	35	18	4.7	1.6	8.5	2.55
-2.3	1.15	115	150	200		-1.4	260	37	20	2.8	1	11.5	4.5
3.5	1.15	50	70			2.5	170	35	23	2	1	7.5	2.5
-2.7	1.15	100	170			-2.4	197	42	26	2.2	1.1	11.3	4.4
3.4	1.1		65	75	100	1	260	48	27	2.9	0.6	14	3.8
-2.5	1.1		75	95	115	-1	560	80	70	8.5	2.1	37	27
3.4	1.25	60	70	90		1.5	235	35	18	3	0.8	6	12
-3.3	1.25		75	105	135	-1	510	70	50	6	1.8	16	4
<b>8</b>	<b>2.5</b>	<b>20</b>	<b>26</b>			<b>2.3</b>	<b>600</b>	<b>70</b>	<b>60</b>	<b>6</b>	<b>2.5</b>	<b>5</b>	<b>6</b>
<b>3.8</b>	<b>1.2</b>	<b>50</b>	<b>57</b>	<b>72</b>		<b>1.5</b>	<b>340</b>	<b>30</b>	<b>25</b>	<b>4</b>	<b>1.2</b>	<b>5.5</b>	<b>4</b>
8	1.4	14	15	20	28	1	1160	232	146	16	3.8	20.2	8
-4.5	1.5		42	54	68	-0.9	751	115	80	9.3	22	26	51
7	1.5		20	23	28	1.1	1295	160	97	10	2.6	31	6.8
7.5	1.5	16	18	24	34	1	1390	190	150	15.4	4	15	5.1
7	1.5	21	24	32	50	1.1	500	100	52	6	1	9	10
7	1.5	18	22	27		1	650	140	60	6.7	3	10	11
<b>7</b>	<b>1.5</b>		<b>20</b>	<b>26</b>		<b>1.25</b>	<b>660</b>	<b>100</b>	<b>80</b>	<b>7</b>	<b>2</b>	<b>8</b>	<b>7</b>

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
<b>TO-251B</b>								
AOY423		TO-251B	Single	P	No	No	30	20
AOY2610E		TO-251B	Single	N	No	No	60	20
<b>AOY66920</b>	<b>New</b>	<b>TO-251B</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>100</b>	<b>20</b>
<b>TO-252</b>								
AOD417		TO-252	Single	P	No	No	-30	20
AOD418		TO-252	Single	P	No	No	30	20
AOD424		TO-252	Single	N	No	No	20	12
AOD424G		TO-252	Single	N	No	No	20	12
AOD480		TO-252	Single	N	No	No	30	20
AOD508		TO-252	Single	N	No	No	30	20
AOD536		TO-252	Single	N	No	No	30	20
AOD538		TO-252	Single	N	No	No	30	20
AOD558		TO-252	Single	N	No	No	30	20
AOD607A		TO-252	Complementary	N	No	No	30	20
AOD607A		TO-252	Complementary	P	No	No	-30	20
AOD661		TO-252	Complementary	P	No	No	-30	20
AOD21357		TO-252	Single	P	No	No	-30	25
AOD4132		TO-252	Single	N	No	No	30	20
<b>AOD66616</b>	<b>New</b>	<b>TO-252</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>60</b>	<b>20</b>
<b>SOT-223</b>								
AOH3254		SOT-223	Single	N	No	No	150	20
<b>SOT-23</b>								
AOSS62934		SOT-23-3	Single	N	No	No	100	20
<b>TSOP-6</b>								
AO6420		TSOP-6	Single	N	No	No	60	20
<b>DFN 2x2</b>								
AON2392		DFN 2x2C	Single	N	No	No	100	20
AON2290		DFN 2x2B	Single	N	No	No	100	20
<b>DFN 3x3</b>								
AON7460		DFN 3x3	Single	N	No	No	300	30
AON7462		DFN 3x3	Single	N	No	No	300	30
AON7458		DFN 3x3	Single	N	No	No	250	30
AON7296		DFN 3x3	Single	N	No	No	100	20
AON7262E		DFN 3x3	Single	N	Yes	No	60	20
AON7264E		DFN 3x3	Single	N	Yes	No	60	20
<b>DFN 3.3x3.3</b>								
AON7254		DFN 3.3x3.3	Single	N	No	No	150	20
AON7292		DFN 3.3x3.3	Single	N	No	No	100	20
AONR62921		DFN 3.3x3.3	Single	N	No	No	100	20
AONR66922		DFN 3.3x3.3	Single	N	No	No	100	20
AONR62818		DFN 3.3x3.3	Single	N	No	No	80	20
AON7280		DFN 3.3x3.3	Single	N	No	No	80	20
AON7140		DFN 3.3x3.3	Single	N	No	No	40	20

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
		10V	4.5V	2.5V	1.8V								
-70	90	8.5				-3.5	2760	550	375	45 <sup>†</sup>	12	15	30
46	59.5	9.5	13.3			2.4	1100	300	28	7	3.5	19	65
<b>70</b>	<b>89</b>	<b>8.2</b>	<b>10.7</b>			<b>2.5</b>	<b>2500</b>	<b>485</b>	<b>13</b>	<b>16.7</b>	<b>5</b>	<b>34</b>	<b>170</b>
-25	50	34	55			-3	920	140	90	8.2	3.6	23	14
36	50	7.5	11			2.5	1150	180	105	9.5	5	8.7	13.5
45	100	4.4	5.7			1.6	3860	740	580	36	12	17	36
46	50		4.9	6.3		1.25	3300	485	370	31	8	17	30
25	21	23	33			2.6	373	67	41	3.5	1.6	10.5	4.5
70	50	3	4.5			2.2	2010	898	124	17	8	14	20.3
46	37.5	8.5	14.7			2.2	1140	400	45	6.5	2.5	12	20
70	93	3.1	4.8			3.1	2160	915	115	14	6.3	16.5	34.2
50	50	5.4	9.5			2.4	1187	483	60	4.1	3.6	14.7	24
8	19	25	38			2.6	395	67	41	3.5	1.7	6	6.6
-12	30	27	45			-2.4	730	140	90	6.7	3.2	12	25.5
-12	31	22.5	36			-2.5	1040	180	125	9.6	4.6	11.5	25
-70	78	8	13			-2.3	2830	430	365	35	12	32	62
85	100	4	6			3	3700	700	390	33	17.6	34	30
<b>70</b>	<b>113</b>	<b>3.7</b>				<b>3.4</b>	<b>2870</b>	<b>940</b>	<b>38</b>	<b>42.5<sup>†</sup></b>	<b>10</b>	<b>26</b>	<b>87</b>
5	4.1	63	77			2.7	675	78	4	5.5	2.5	37	210
2.0	1.4	140	180			2.7	250	19	2.5	1.8	0.8	12	27
4.2	2	60	75			3	450	60	25	4.3	2.2	25.1	28.7
8	4.1	32	39			2.4	840	64	4	6.1	1.8	20	70
4.5	2.8	72	97			2.8	415	32	3	3	1.5	16	44
4	33	830				4.5	310	45	2.9	6.8	2	88	290
2.5	25	1500				4.5	197	30	2	4.6 <sup>†</sup>	1.5	95	220
5	33	560				4.3	306	51	3.2	6	1.5	77	290
12.5	20.8	66	90			2.8	415	32	3	3	1.5	16	44
34	43	6.2	8.5			2.2	1652	520	52	15	6.5	19	60
28	27.5	9.5	13.3			2.4	1100	300	28	7	3.5	19	65
17	39	54	66			2.7	675	78	4	5.5	2.5	37	210
23	28	24	32			2.6	1170	90	8	8	3.5	24	110
50	54	10.2	12.6			2.3	2450	180	11	15.5	5	25	123
50	52	9.0	12			2.5	2180	550	13	15	5	32	138
50	54	6.6	9.5			2.3	2420	280	15	15	4	24	100
50	83	8.5	12*			3.4	1871	265	14	26.5 <sup>†</sup>	4	32	162
50	46	2.3	3.5			2.4	3350	580	65	18	21.2	16	42

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

<sup>†</sup> Qg measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
<b>DFN 5x6 (XSFET™)</b>								
<b>AOE66410</b>	<b>New</b>	<b>DFN 5x6</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>40</b>	<b>20</b>
<b>DFN 5x6</b>								
AON6458		DFN 5x6	Single	N	No	No	250	30
AON6250		DFN 5x6	Single	N	No	No	150	20
AON6220		DFN 5x6	Single	N	No	No	100	20
AON6290		DFN 5x6	Single	N	No	No	100	20
AON6292		DFN 5x6	Single	N	No	No	100	20
AON6298		DFN 5x6	Single	N	No	No	100	20
AON6452		DFN 5x6	Single	N	No	No	100	25
AON6482		DFN 5x6	Single	N	No	No	100	20
AON6276		DFN 5x6	Single	N	No	No	80	20
AON6278		DFN 5x6	Single	N	No	No	80	20
AON6280		DFN 5x6	Single	N	No	No	80	20
AON6282		DFN 5x6	Single	N	No	No	80	20
AON6284		DFN 5x6	Single	N	No	No	80	20
AON6284A		DFN 5x6	Single	N	No	No	80	20
AON6262E		DFN 5x6	Single	N	Yes	No	60	20
AON6264E		DFN 5x6	Single	N	Yes	No	60	20
AON6266E		DFN 5x6	Single	N	No	No	60	20
AON6160		DFN 5x6	Single	N	No	No	60	20
AON6162		DFN 5x6	Single	N	No	No	60	20
AON6152		DFN 5x6	Single	N	No	No	45	20
AON6154		DFN 5x6	Single	N	No	No	45	20
AON6156		DFN 5x6	Single	N	No	No	45	20
AON6144		DFN 5x6	Single	N	No	No	40	20
AON6590		DFN 5x6	Single	N	No	No	40	20
AON6884		DFN 5x6	Dual	N	No	No	40	20
AONS62602		DFN 5x6	Single	N	No	No	60	20
AONS62614		DFN 5x6	Single	N	No	No	60	20
AONS62618		DFN 5x6	Single	N	No	No	60	20
AONS62920		DFN 5x6	Single	N	No	No	100	20
AONS62922		DFN 5x6	Single	N	No	No	120	20
AONS66402		DFN 5x6	Single	N	No	No	40	20
AONS66406		DFN 5x6	Single	N	No	No	40	20
AONS66612		DFN 5x6	Single	N	No	No	60	20
<b>AONS66614</b>	<b>New</b>	<b>DFN 5x6</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>60</b>	<b>20</b>
AONS66916		DFN 5x6	Single	N	No	No	100	20
<b>AONS66917</b>	<b>New</b>	<b>DFN 5x6</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>100</b>	<b>20</b>
AONS66920		DFN 5x6	Single	N	No	No	100	20
AONS66923		DFN 5x6	Single	N	No	No	100	20
AONY36352		DFN 5x6	Asymmetric	N	No	No	30	20
AONY36352		DFN 5x6	Asymmetric	N	No	No	30	12
AONY36354		DFN 5x6	Asymmetric	N	No	No	30	20
AONY36354		DFN 5x6	Asymmetric	N	No	No	30	12

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

I <sub>D</sub> (A) 25°C	P <sub>D</sub> (W) 25°C	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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
<b>100</b>	<b>147</b>	<b>1.0</b>	<b>1.5</b>			<b>2.5</b>	<b>9000</b>	<b>1600</b>	<b>92</b>	<b>50</b>	<b>11</b>	<b>27.5</b>	<b>105</b>
14	83	170				4.5	1028	167	11	22 <sup>†</sup>	8	158	1000
52	104	16.5	19*			3.4	2388	213	9.5	30.5 <sup>†</sup>	4.5	68	560
48	113.5	6.2	7.4			2.3	4525	345	22.5	30	9	32	162
85	208	4.6	6.2*			3.4	4600	415	27	28.5	10	40	230
85	156	6	8.5*			3.4	3830	327	16.5	15.5	7	19	225
46	78	16.5	21*			3.4	1307	127	8	16 <sup>†</sup>	3	30	132
26	35	25	31*			4	1770	165	55	28 <sup>†</sup>	10	20	82
28	75	37	42			2.7	1630	100	50	18	9	32	200
100	215	2.6				3.2	4940	770	40	68 <sup>†</sup>	14	32	168
85	208	3.3	4.6*			3.3	4646	632	31	61.5 <sup>†</sup>	9.5	32	174
85	83	4.1	5*			3.2	3930	592	66	58 <sup>†</sup>	14	36	153
85	83	5.6	8*			3.5	2848	392	22.5	36.5 <sup>†</sup>	6	30	126
78	78	7.1	10*			3.3	2162	300	16	28 <sup>†</sup>	4.5	26	118
48	56	6.5	8.5*			2.3	2540	310	18.5	16.5 <sup>†</sup>	6	23	91
40	48	6.2	8.5			2.2	1650	520	52	15	6.5	19	60
28	37.5	9.5	13.3			2.4	1100	300	28	7	3.5	19	65
24	26	13.2	17.7			2.2	755	220	20	6.5	3	17	54
100	215	1.58				3.4	6485	1050	30	85	13	33	176
100	215	2.1				3.2	4850	1700	130	70 <sup>†</sup>	16	30	150
100	208	1.15	1.85			2.3	7410	1120	75	37	5.5	25	71
100	125	1.5	2.1			2.4	6575	870	82	38	16	22	60
100	78	2.5	4			2.5	3975	545	62	23	16	19	43
100	78	2.4	3.5			2.4	3780	675	60	22	16	17	45
100	208	0.99	1.5			2.3	8320	1438	85	45	7	26	83
34	21	11.3	13.8			2.7	1500	215	135	13.6	6.4	13	35
85	208	2.5	3.6			2.5	5630	1510	95	35.5	9.5	27	113
100	119	2.5	3.4			2.2	3660	1160	108	32	11.5	26	92
44	56	4.7	6.3			2.3	2520	670	65	21	8.5	22	80
48	113.5	6.3	7.6			2.3	4525	345	22.5	30	9	32	162
85	215	7	9			2.4	3295	360	9	20	5.5	43	355
85	119	1.6	2.3			2.5	1480	245	13	8.5	3	11	21
30	6.1	9.4				2.3	1480	245	13	8.5	3	11	21
100	208	1.65				3.5	5300	1500	50	78	20	30	135
<b>85</b>	<b>78</b>	<b>2.9</b>	<b>4.1</b>			<b>2.4</b>	<b>3310</b>	<b>745</b>	<b>30</b>	<b>25</b>	<b>8.5</b>	<b>22</b>	<b>73</b>
100	215	3.6				3.6	5325	1240	16	67 <sup>†</sup>	9	42	215
<b>100</b>	<b>215</b>	<b>3.5</b>	<b>5</b>			<b>2.8</b>	<b>5940</b>	<b>1475</b>	<b>24</b>	<b>35</b>	<b>11</b>	<b>43</b>	<b>208</b>
48	56.5	8.2	10.7			2.5	2500	485	13	16.7	5	34	170
47	48	10.8	14.8			2.6	1725	360	7.5	12.5	3.5	41	156
49	21	5.3	9.1			2.1	820	230	35	5	1.5	9.5	12.5
85	45	2	2.5			1.9	2555	520	75	16	3	14	26.5
49	21	5.3	9.1			2.1	820	230	35	5	1.5	9.5	12.5
85	31.5	2.6	3.5			1.9	1890	395	55	11.5	2.5	12	21

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
<b>DFN 8x6</b>								
AOMU66414Q		DFN 8x6	Dual	N	No	No	40	20
AOMU66414Q		DFN 8x6	Dual	N	No	No	40	20
<b>SO-8</b>								
AO4286		SO-8	Single	N	No	No	100	20
AO4482		SO-8	Single	N	No	No	100	20
AO4892		SO-8	Dual	N	No	No	100	20
AOSP66923		SO-8	Single	N	No	No	100	20
AOSD62666E		SO-8	Dual	N	Yes	No	60	20
AO4262E		SO-8	Single	N	Yes	No	60	20
AO4264E		SO-8	Single	N	Yes	No	60	20
AO4266E		SO-8	Single	N	No	No	60	20
AO4268		SO-8	Single	N	No	No	60	20
AO4484		SO-8	Single	N	No	No	40	20
AO4443		SO-8	Single	P	No	No	-40	20
AO4485		SO-8	Single	P	No	No	-40	20
AO4492		SO-8	Single	N	No	No	30	20
AO4421		SO-8	Single	P	No	No	-60	20
AO4441		SO-8	Single	P	No	No	-60	20
AO4828		SO-8	Dual	N	No	No	60	20
AO4840E		SO-8	Dual	N	Yes	No	40	20
AO4884		SO-8	Dual	N	No	No	40	20
AO4612		SO-8	Complementary	N	No	No	60	20
AO4612		SO-8	Complementary	P	No	No	-60	20
AO4614B		SO-8	Complementary	N	No	No	40	20
AO4614B		SO-8	Complementary	P	No	No	-40	20
AOSP66406		SO-8	Single	N	No	No	40	20
<b>Ultra SO-8</b>								
AOL1454G		Ultra SO-8	Single	N	Yes	No	40	20
AOL1482		Ultra SO-8	Single	N	Yes	No	100	20
<b>AOUS66414</b>	<b>New</b>	<b>Ultra SO-8</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>40</b>	<b>20</b>
<b>AOUS66416</b>	<b>New</b>	<b>Ultra SO-8</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>40</b>	<b>20</b>
<b>AOUS66920</b>	<b>New</b>	<b>Ultra SO-8</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>100</b>	<b>20</b>
AOUS66923		Ultra SO-8	Single	N	Yes	No	100	20
<b>TOLLA</b>								
AOTL66401		TOLLA	Single	N	No	No	40	20
<b>AOTL66608</b>	<b>New</b>	<b>TOLLA</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>60</b>	<b>20</b>
<b>AOTL66610</b>	<b>New</b>	<b>TOLLA</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>60</b>	<b>20</b>
<b>AOTL66912</b>	<b>New</b>	<b>TOLLA</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>100</b>	<b>20</b>
<b>TO-220</b>								
AOT9N40		TO-220	Single	N	No	No	400	30
AOT12N40		TO-220	Single	N	No	No	400	30
AOT12N30		TO-220	Single	N	No	No	300	30
AOT20N25		TO-220	Single	N	No	No	250	30
AOT2500L		TO-220	Single	N	No	No	150	20
AOT2502L		TO-220	Single	N	No	No	150	20

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
85	68	2.3	3.5			2.4	3350	580	65	18	3.5	16	42
85	65	2.3	3.5			2.4	3350	580	65	18	3.5	16	42
4	2.5	68	92			2.9	390	30	3	2.8	1.2	15	53
6	3.1	37	42			2.7	1630	100	50	18	9	25	130
4	2	68	94			2.8	415	32	3	3	1.5	16	44
12	3.1	11	15			2.6	1725	360	7.5	12.5	3.5	33	120
9.5	2.5	14.5	19			2.2	755	220	20	6.5	3	15	45
16.5	3.1	6.5	8.5			2.2	1650	520	52	15	6.5	19	60
13.5	3.1	9.8	13.5			2.4	1100	300	28	7	3.5	18.5	59
11	3.1	13.5	18			2.2	755	220	20	6.5	3	15	45
19	3.1	4.8	6.5			2.3	2500	670	65	21	6.5	22	80
10	1.7	10	12.5			3	1500	215	135	13.6	6.4	30	19
-6	3.1	42	63			-2.6	940	97	72	8.4	4.3	17	11.5
-10	1.7	15	20			-2.5	2500	260	180	18.6	8.6	38	47
14	3.1	9.5	14			2.2	770	240	77	7.1	3.1	11	23
-6.2	3.1	40	50			-3	2417	179	120	22.7	9.2	34	47
-4	3.1	100	130			-3	930	85	35	8	3.2	27	32
4.5	2	56	77			3	450	60	25	4.3	2.2	27.5	32
6	2	28	35			2.6	520	65	32	4.5	1.5	8	13
10	2	13	16			2.7	1500	215	135	13.6	6.4	13	35
4.5	2	56	77			3	450	60	25	4.3	2.2	27.5	32
-3.2	2	105	135			-3	930	85	35	8	3.2	27	32
6	2	30	38			3	516	82	43	4.3	1.4	18	10
-5	2	45	63			-3	940	97	72	7.9	3.2	21	14
17	3.1	6.6	10			2.5	1480	245	13	8.5	3	11	21
50	60	9	13			3	1600	320	100	10.5	4.8	31	33
28	75	37	42			2.7	1630	100	50	18	9	32	200
<b>92</b>	<b>92</b>	<b>2.2</b>	<b>3.2</b>			<b>2.3</b>	<b>4350</b>	<b>730</b>	<b>40</b>	<b>24</b>	<b>3.6</b>	<b>18</b>	<b>45</b>
<b>69</b>	<b>73.5</b>	<b>3.3</b>	<b>5.0</b>			<b>2.5</b>	<b>2575</b>	<b>440</b>	<b>25</b>	<b>13.5</b>	<b>2</b>	<b>14</b>	<b>30</b>
<b>69</b>	<b>86</b>	<b>8.2</b>	<b>10.7</b>			<b>2.5</b>	<b>2500</b>	<b>485</b>	<b>13</b>	<b>16.7</b>	<b>5</b>	<b>34</b>	<b>170</b>
58	73	11	15			2.6	1725	360	7.5	12.5	3.5	41	156
400	300	0.7	0.95			2.3	19180	3110	180	100	22	35	160
<b>400</b>	<b>500</b>	<b>0.85</b>				<b>3.3</b>	<b>14200</b>	<b>4300</b>	<b>155</b>	<b>205<sup>†</sup></b>	<b>50</b>	<b>50</b>	<b>265</b>
<b>350</b>	<b>272</b>	<b>1.2</b>				<b>3.6</b>	<b>7625</b>	<b>2145</b>	<b>68</b>	<b>103<sup>†</sup></b>	<b>23</b>	<b>37</b>	<b>172</b>
<b>380</b>	<b>500</b>	<b>1.7</b>				<b>3.5</b>	<b>12500</b>	<b>3190</b>	<b>55</b>	<b>155<sup>†</sup></b>	<b>31</b>	<b>55</b>	<b>335</b>
8	132	800				4.5	630	73	5.7	13.1 <sup>†</sup>	4.8	195	1900
11	184	590				4.5	925	100	6.4	17 <sup>†</sup>	5.7	235	2400
11.5	132	420				4.5	632	90	7	12.8 <sup>†</sup>	4.3	170	1300
20	208	170				4.5	1028	167	11	20 <sup>†</sup>	8	179	1600
152	375	6.5	7.6*			3.5	6460	586	22	97 <sup>†</sup>	17	90	1090
106	277	11				5.1	3010	345	14	43 <sup>†</sup>	10	75	880

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.



## Medium Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
AOT292L		TO-220	Single	N	No	No	100	20
AOT296L		TO-220	Single	N	No	No	100	20
AOT2904		TO-220	Single	N	No	No	100	20
AOT2910L		TO-220	Single	N	No	No	100	20
AOT2916L		TO-220	Single	N	No	No	100	20
AOT280L		TO-220	Single	N	No	No	80	20
AOT282L		TO-220	Single	N	No	No	80	20
AOT284L		TO-220	Single	N	No	No	80	20
AOT286L		TO-220	Single	N	No	No	80	20
AOT288L		TO-220	Single	N	No	No	80	20
AOT270AL		TO-220	Single	N	No	No	75	20
AOT430		TO-220	Single	N	No	No	75	25
AOT470		TO-220	Single	N	No	No	75	25
AOT66616L		TO-220	Single	N	No	No	60	20
AOT2140L		TO-220	Single	N	No	No	40	20
AOT2142L		TO-220	Single	N	No	No	40	20
AOT2144L		TO-220	Single	N	No	No	40	20
AOT2146L		TO-220	Single	N	No	No	40	20
<b>TO-220F</b>								
AOTF20N40		TO-220F	Single	N	No	No	400	30
AOTF12N30		TO-220F	Single	N	No	No	300	30
AOTF454L		TO-220F	Single	N	No	No	150	20
AOTF292L		TO-220F	Single	N	No	No	100	20
AOTF296L		TO-220F	Single	N	No	No	100	20
AOTF2910L		TO-220F	Single	N	No	No	100	20
AOTF2916L		TO-220F	Single	N	No	No	100	20
AOTF4126		TO-220F	Single	N	No	No	100	25
AOTF286L		TO-220F	Single	N	No	No	80	20
AOTF288L		TO-220F	Single	N	No	No	80	20
<b>AOTF66613L</b>	<b>New</b>	<b>TO-220F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>60</b>	<b>20</b>
AOTF66616L		TO-220F	Single	N	No	No	60	20
AOTF2142L		TO-220F	Single	N	No	No	40	20
AOTF2144L		TO-220F	Single	N	No	No	40	20
AOTF2146L		TO-220F	Single	N	No	No	40	20
AOTF4185		TO-220F	Single	P	No	No	-40	20
AOTF409		TO-220F	Single	P	No	No	-60	20
<b>TO-247</b>								
AOK40N30		TO-247	Single	N	No	No	300	30
AOK60N30L		TO-247	Single	N	No	No	300	30
<b>AOK66613</b>	<b>New</b>	<b>TO-247</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>60</b>	<b>20</b>
<b>TO-251A</b>								
AOI5N40		TO-251A	Single	N	No	No	400	30
AOI468		TO-251A	Single	N	No	No	300	30
AOI8N25		TO-251A	Single	N	No	No	250	30
AOI478		TO-251A	Single	N	No	No	100	20

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
		10V	4.5V	2.5V	1.8V								
105	300	4.5	5.3*			3.4	6775	557	32	90†	13.5	50	380
70	107	10	12.5*			3.4	2785	238	12	16.5	5	35	210
120	326	4.4				3.3	7085	605	32	93	16	49	460
30	50	24	33			2.7	1190	95	7	7	2.5	30	145
23	41.5	34	43.5			2.7	870	68	3.5	5.5	2	20	88
140	333	2.7	3.5*			3.4	11135	1315	80	160†	28	44	348
105	272.5	3.5	5.2*			3.5	7765	960	66	58	21	40	320
105	250	4.5	5.7*			3.3	5154	673	48	33.5	11.5	38	230
70	167	6	7.9*			3.3	3142	435	43	44.5†	8	29	161
46	93.5	9.2	12.5*			3.4	1871	265	14	26.5	4	32	162
140	500	2.6	3.2*			3.3	10830	1520	97	147†	30	53	438
80	268	11.5				4	4700	400	180	114†	18	53	143
100	268	10.5				4	4700	400	180	114†	18	53	143
140	125	3.2				3.4	2870	940	38	42.5	10	26	87
195	272	1.5	2			2.3	9985	1635	95	54	11	29	107
120	312	1.9	2.5			2.3	8320	1438	85	45	7	26	83
120	187	2.3	4			2.4	5225	895	55	28	4.5	20	60
105	119	2.8	3.9			2.5	3830	630	45	20	3	18.5	50
20	50	250				4.3	1898	212	15	37†	12	285	3900
11.5	36	420				4.5	632	90	7	12.8†	4.3	170	1300
13	41	94	100*			4.6	820	70	22	15	4.4	32.5	230
70	47	4.5				3.4	6775	557	32	90	13.5	50	380
41	36.5	10	12.5*			3.4	2785	238	12	37†	5	35	210
22	27	24	33			2.7	1190	95	7	7	2.5	30	145
17	23.5	34	43			2.7	870	68	3.5	5.5	2	20	88
27	42	24	30*			4	1770	165	55	28†	10	20	82
56	37.5	6	8*			3.3	3142	435	43	44.5†	8	29	161
43	35.5	9.2	12.5*			3.4	1871	265	14	26.5	4	32	162
<b>90</b>	<b>34.5</b>	<b>2.5</b>				<b>3.5</b>	<b>5300</b>	<b>1500</b>	<b>50</b>	<b>78†</b>	<b>20</b>	<b>30</b>	<b>135</b>
72.5	30	3.3				3.4	2870	940	38	42.5	10	26	87
112	41	1.9	2.5			2.3	8320	1438	85	45	7	26	83
90	32	2.3	4			2.4	5225	895	55	28	4.5	20	60
80	29.5	2.8	3.9			2.5	3830	630	45	20	3	18.5	50
-34	33	16	20			-2.5	2550	280	190	18.6	8.6	25	75
-24	43	40	54			-2.4	2461	178	120	19.7	8.9	26.68	167.12
40	357	85				4.1	2718	405	31	60†	21	275	8200
60	658	56				4.1	4438	593	38	88	28	320	14.5
<b>120</b>	<b>312</b>	<b>2.5</b>				<b>3.5</b>	<b>5300</b>	<b>1500</b>	<b>50</b>	<b>78†</b>	<b>20</b>	<b>30</b>	<b>135</b>
4.2	78	1600				4.5	331	42	3	6.9†	2.3*	160	930
11.5	150	420				4.5	632	90	7	12.8†	4.3*	170	1300
8	78	560				4.3	306	51	3.2	6†	1.5*	77	290
11	45	140	152			2.8	445	29	16	5.1	2.4	21	97

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Qg measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
AOI4126	TO-251A	Single	N	No	No	100	25
AOI4286	TO-251A	Single	N	No	No	100	20
AOI444	TO-251A	Single	N	No	No	60	20
AOI2610E	TO-251A	Single	N	No	No	60	20
AOI4184	TO-251A	Single	N	No	No	40	20
AOI4185	TO-251A	Single	N	No	No	-40	20
AOI66406	TO-251A	Single	N	No	No	40	20
AOI423	TO-251A	Single	P	No	No	-30	25
AOI538	TO-251A	Single	N	No	No	30	20
AOI21357	TO-251A	Single	P	No	No	-30	25
AOI409	TO-251A	Single	N	No	No	-60	20
<b>TO-252</b>							
AOD3N40	TO-252	Single	N	No	No	400	30
AOD5N40	TO-252	Single	N	No	No	400	30
AOD9N40	TO-252	Single	N	No	No	400	30
AOD468	TO-252	Single	N	No	No	300	30
AOD458	TO-252	Single	N	No	No	250	30
AOD8N25	TO-252	Single	N	No	No	250	30
AOD450	TO-252	Single	N	No	No	200	30
AOD2210	TO-252	Single	N	No	No	200	20
AOD4504	TO-252	Single	N	No	No	200	20
AOD2544	TO-252	Single	N	No	No	150	20
AOD4454	TO-252	Single	N	No	No	150	20
AOD464	TO-252	Single	N	No	No	105	25
AOD478	TO-252	Single	N	No	No	100	20
AOD482	TO-252	Single	N	No	No	100	20
AOD2910	TO-252	Single	N	No	No	100	20
AOD2910E	TO-252	Single	N	Yes	No	100	20
AOD2916	TO-252	Single	N	No	No	100	20
AOD2922	TO-252	Single	N	No	No	100	20
AOD4126	TO-252	Single	N	No	No	100	25
AOD4286	TO-252	Single	N	No	No	100	20
AOD66923	TO-252	Single	N	No	No	100	20
AOD2810	TO-252	Single	N	No	No	80	20
AOD2816	TO-252	Single	N	No	No	80	20
AOD442G	TO-252	Single	N	No	No	60	20
AOD444	TO-252	Single	N	No	No	60	20
AOD2610E	TO-252	Single	N	Yes	No	60	20
AOD2144	TO-252	Single	N	No	No	40	20
AOD2146	TO-252	Single	N	No	No	40	20
AOD66406	TO-252	Single	N	No	No	40	20
AOD413A	TO-252	Single	P	No	No	-40	20
AOD4185	TO-252	Single	P	No	No	-40	20
AOD4189	TO-252	Single	P	No	No	-40	20
AOD407	TO-252	Single	P	No	No	-60	20
AOD409	TO-252	Single	P	No	No	-60	20

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
43	100	24	30*			4	1770	165	55	28†	10	20	82
14	30	68	92			2.9	390	30	3	2.8	1.2	15	53
12	20	60	85			3	450	61	27	3.8	1.9	27	30
46	59.5	9.5				2.4	1100	300	28	7	3.5	19	65
50	50	8	11			3	1500	215	135	27.2	6.4	29	26
-40	62.5	15*	20*			-3	2550	280	190	18.6	8.6	38	47
60	52	6.1	9.4			2.5	1480	245	13	8.5	3	11	21
-70	62.5	8.5				-3.5	2760	550	375	45*	12	15	30
70	93	3.1	4.8			3.1	2610	915	115	14	6.3	16.5	34.2
-70	78	8	13			-2.3	2830	430	365	35	12	32	
-26	60	40*	55*			-2.4	2977	241	153	22.2	10	40	59
2.6	50	3100				4.5	186	26	2.1	4.2†	1	140	640
4.2	78	1600				4.5	331	42	3	6.9†	2.3	160	930
8	125	800				4.5	962	73	8	19.5†	7.1	195	1900
11.5	150	420				4.5	632	90	7	12.8†	4.3	170	1300
14	150	280				4.5	637	104	7.1	12	4.6	150	1240
8	78	560				4.3	306	51	3.2	6†	1.5	77	290
3.8	25	700				6	215	32	7.2	3.82†	1.47	59	142
18	100	105	120*			2.5	2065	74	3.8	12	3	60	800
6	42.5	400				3.7	328	20.5	8	44	30	35	150
23	75	54	66			2.7	675	78	4	5.5	2.5	37	210
20	100	94	110*			4.6	820	70	22	15†	4.4	32.5	230
40	100	28	31*			4	2038	204	85	38.5†	10	59.6	161
11	45	140	152			2.8	445	29	16	5.1	2.4	21	97
32	100	37	42			2.7	1630	100	50	18	9	32	200
31	53.5	24	33			2.7	1190	95	7	7	2.5	30	145
37	71.5	23	33			2.7	1200	93	6.3	8	2.5	25	120
25	50	34	43.5			2.7	870	68	3.5	5.5	2	20	88
7	17	140	176			2.7	250	19	2.5	1.8	0.8	19	52
43	100	24	30*			4	1770	165	55	28†	10	20	82
14	30	68	92			2.9	390	30	3	2.8	1.2	15	53
58	73	11	15			2.6	1725	360	7.5	12.5	3.5	41	156
46	100	8.5	12*			3.4	1871	265	14	26.5†	4	32	162
35	53.5	15	29*			3.5	1109	154	9	5	3.2	30	122
40	60	18	23			2.7	1920	155	155	24	14.5	30	105
12	20	60	85			3	450	61	27	3.8	1.9	27	30
46	59.5	9.5	13.3			2.4	1100	300	28	7	3.5	19	65
120	156	2.3	4			2.4	5225	895	55	28	4.5	20	60
54	100	3.1	4.2			2.5	3830	630	45	20	3	18.5	50
60	52	6.1	9.4			2.5	1480	245	13	8.5	3	11	21
-12	50	44	66			-3	900	97	68	7.2	3.5	21.2	13.8
-40	62.5	15	20			-3	2550	280	190	18.6	8.5	38	47
-40	62.5	22	29			-3	1870	185	155	7.9	6.2	32	30
-12	50	115	150			-3	987	114	46	7.4	3.5	27.5	30
-26	60	40	55			-2.4	2977	241	153	22.2	10	40	59

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)
AOD409G		TO-252	Single	P	No	No	-60	20
AOD603A		TO-252	Complementary	N	No	No	60	20
AOD603A		TO-252	Complementary	P	No	No	-60	20
<b>TO-262</b>								
AOW2502		TO-262	Single	N	No	No	150	20
AOW292		TO-262	Single	N	No	No	100	20
AOW296		TO-262	Single	N	No	No	100	20
AOW284		TO-262	Single	N	No	No	80	20
AOW482		TO-262	Single	N	No	No	80	25
<b>AOW66613</b>	<b>New</b>	<b>TO-262</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>60</b>	<b>20</b>
AOW66412		TO-262	Single	N	No	No	40	20
AOW66616		TO-262	Single	N	No	No	60	20
<b>TO-262F</b>								
AOWF412		TO-262F	Single	N	No	No	100	25
<b>TO-263</b>								
AOB2500L		TO-263	Single	N	No	No	150	20
AOB2502L		TO-263	Single	N	No	No	150	20
AOB414		TO-263	Single	N	No	No	100	25
AOB2904		TO-263	Single	N	No	No	100	20
AOB2910L		TO-263	Single	N	No	No	100	20
AOB292L		TO-263	Single	N	No	No	100	20
AOB296L		TO-263	Single	N	No	No	100	20
AOB280L		TO-263	Single	N	No	No	80	20
AOB282L		TO-263	Single	N	No	No	80	20
AOB284L		TO-263	Single	N	No	No	80	20
AOB286L		TO-263	Single	N	No	No	80	20
AOB288L		TO-263	Single	N	No	No	80	20
AOB270AL		TO-263	Single	N	No	No	75	20
AOB470L		TO-263	Single	N	No	No	75	25
<b>AOB66613L</b>	<b>New</b>	<b>TO-263</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>	<b>60</b>	<b>20</b>
AOB66616L		TO-263	Single	N	No	No	60	20
AOB2140L		TO-263	Single	N	No	No	40	20
AOB2144L		TO-263	Single	N	No	No	40	20
AOB2146L		TO-263	Single	N	No	No	40	20
AOB4184		TO-263	Single	N	No	No	40	20
AOB409L		TO-263	Single	P	No	No	-60	20
AOB411L		TO-263	Single	P	No	No	-60	20

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
-26	60	40	55			-2.5	2350	160	115	22	10	23	107
12	27	60	85			3	450	61	27	3.8	1.9	27	30
-12	42.5	115	150			-3	960	86	38	7.4	3.5	27.5	30
106	277	10.7				5.1	3010	345	14	43 <sup>†</sup>	10	75	880
105	300	4.1	4.9*			3.4	6775	557	32	90 <sup>†</sup>	13.5	50	380
70	104	9.7*				3.4	2785	238	12	37	5	35	210
105	250	4.3	5.5*			3.3	5154	673	48	71 <sup>†</sup>	11.5	38	230
105	333	7.2	9*			3.7	4054	458	160	66.8 <sup>†</sup>	20.2	26	108
<b>120</b>	<b>260</b>	<b>2.5</b>				<b>3.5</b>	<b>5300</b>	<b>1500</b>	<b>50</b>	<b>78<sup>†</sup></b>	<b>20</b>	<b>30</b>	<b>135</b>
120	260	1.9	2.5			2.3	8320	1438	85	45	7	26	83
140	125	3.2				3.4	2870	940	38	42.5	10	26	87
30	33	15.8	19.4*			3.8	2680	260	100	45	15	22	96
152	375	6.2	7.3*			3.5	6460	586	22	97 <sup>†</sup>	17	90	1090
106	277	10.7				5.1	3010	347	14	43 <sup>†</sup>	10	75	880
51	150	25				4	1770	165	55	28 <sup>†</sup>	10	20	82
120	326	4.4				3.3	7085	605	32	93	16	49	460
30	50	23.5	32.5			2.7	1190	95	7	7	2.5	30	145
105	300	4.1				3.4	6775	557	32	90	13.5	50	380
70	107	9.7				3.4	2785	238	12	16.5	5	35	210
140	333	2.2	3.1*			3.4	11135	1315	80	160 <sup>†</sup>	28	44	348
105	272.5	3.2	4.9*			3.5	7765	960	66	58	21	40	320
105	250	4.3	5.5*			3.3	5154	673	48	33.5	11.5	38	230
70	167	5.7	7.6*			3.3	3142	435	43	44.5 <sup>†</sup>	8	29	161
46	93.5	8.9	12.2*			3.4	1871	265	14	26.5	4	32	162
140	500	2.4	3*			3.3	10830	1520	97	147 <sup>†</sup>	30	53	438
100	268	10.2				4	4700	400	180	114 <sup>†</sup>	18	53	143
<b>120</b>	<b>260</b>	<b>2.5</b>				<b>3.5</b>	<b>5300</b>	<b>1500</b>	<b>50</b>	<b>78<sup>†</sup></b>	<b>20</b>	<b>30</b>	<b>135</b>
140	125	3.2				3.4	2870	940	38	42.5	10	26	87
195	272	1.5	2			2.3	9985	1635	95	54	11	29	107
120	187	2.3	4			2.4	5225	895	55	28	4.5	20	60
105	119	2.8	3.9			2.5	3830	630	45	20	3	18.5	50
50	50	10	13			3	1500	215	135	13.6	6.4	19	59
-31.5	83.3	38	50			-2.4	2461	178	120	19.7	8.9	25.7	167
-78	187	16.5	22			-2.5	5330	483	234	40	18	27	165

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## $\alpha$ MOS5™ High Voltage Super Junction MOSFETs

Part Number		V <sub>DS</sub> (V)	R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = 10V	Package	Configuration	Polarity	ESD Diode	Schottky Diode
<b>V<sub>DS</sub> = 600V</b>								
<b>AOB095A60L</b>	<i>New</i>	<b>600</b>	<b>95</b>	<b>TO-220</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOK095A60</b>	<i>New</i>	<b>600</b>	<b>95</b>	<b>TO-247</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOT095A60L</b>	<i>New</i>	<b>600</b>	<b>95</b>	<b>TO-220</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOTF095A60L</b>	<i>New</i>	<b>600</b>	<b>95</b>	<b>TO-220</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOB160A60L</b>	<i>New</i>	<b>600</b>	<b>160</b>	<b>TO-263</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOK160A60</b>	<i>New</i>	<b>600</b>	<b>160</b>	<b>TO-247</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOT160A60L</b>	<i>New</i>	<b>600</b>	<b>160</b>	<b>TO-220</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOTF160A60L</b>	<i>New</i>	<b>600</b>	<b>160</b>	<b>TO-220F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOB190A60CL</b>	<i>New</i>	<b>600</b>	<b>190</b>	<b>TO-263</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
AOB190A60L		600	190	TO-263	Single	N	No	No
<b>AOT190A60CL</b>	<i>New</i>	<b>600</b>	<b>190</b>	<b>TO-220</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
AOT190A60L		600	190	TO-220	Single	N	No	No
<b>AOTF190A60CL</b>	<i>New</i>	<b>600</b>	<b>190</b>	<b>TO-220F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
AOTF190A60L		600	190	TO-220F	Single	N	No	No
<b>AOWF160A60</b>	<i>New</i>	<b>600</b>	<b>190</b>	<b>TO-262F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOWF190A60C</b>	<i>New</i>	<b>600</b>	<b>190</b>	<b>TO-262F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOWF190A60</b>	<i>New</i>	<b>600</b>	<b>190</b>	<b>TO-262F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOB280A60L</b>	<i>New</i>	<b>600</b>	<b>280</b>	<b>TO-263</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOD280A60</b>	<i>New</i>	<b>600</b>	<b>280</b>	<b>TO-252</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOT280A60L</b>	<i>New</i>	<b>600</b>	<b>280</b>	<b>TO-220</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOTF280A60L</b>	<i>New</i>	<b>600</b>	<b>280</b>	<b>TO-220F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOWF280A60</b>	<i>New</i>	<b>600</b>	<b>280</b>	<b>TO-262F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOB380A60CL</b>	<i>New</i>	<b>600</b>	<b>380</b>	<b>TO-263</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOD380A60C</b>	<i>New</i>	<b>600</b>	<b>380</b>	<b>TO-252</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
AOD380A60		600	380	TO-252	Single	N	No	No
<b>AOI380A60C</b>	<i>New</i>	<b>600</b>	<b>380</b>	<b>TO-251A</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOT380A60CL</b>	<i>New</i>	<b>600</b>	<b>380</b>	<b>TO-220</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
AOT380A60L		600	380	TO-220	Single	N	No	No
<b>AOTF380A60CL</b>	<i>New</i>	<b>600</b>	<b>380</b>	<b>TO-220F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
AOTF380A60L		600	380	TO-220F	Single	N	No	No
<b>AOWF380A60C</b>	<i>New</i>	<b>600</b>	<b>380</b>	<b>TO-262F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOD600A60</b>	<i>New</i>	<b>600</b>	<b>600</b>	<b>TO-252</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOI600A60</b>	<i>New</i>	<b>600</b>	<b>600</b>	<b>TO-251A</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOTF600A60L</b>	<i>New</i>	<b>600</b>	<b>600</b>	<b>TO-220F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>
<b>AOWF600A60</b>	<i>New</i>	<b>600</b>	<b>600</b>	<b>TO-262F</b>	<b>Single</b>	<b>N</b>	<b>No</b>	<b>No</b>

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

$V_{GS}$ ( $\pm V$ )	$I_D$ (A) 25°C	$P_D$ (W) 25°C	$V_{GS(th)}$ (max V)	$C_{iss}$ (pF)	$C_{oss}$ (pF)	$C_{rss}$ (pF)	$Q_g$ (nC)	$Q_{gd}$ (nC)	$T_{rr}$ (ns)	$Q_{rr}$ (nC)
20	38	378	—	4010	105	1.2	78	24	444	11500
20	38	378	—	4010	105	1.2	78	24	444	11500
20	38	378	—	4010	105	1.2	78	24	444	11500
20	38*	41	—	4010	105	1.2	78	24	444	11500
20	24	250	—	2340	62	1.3	46	14	387	7300
20	24	250	—	2340	62	1.3	46	14	387	7300
20	24	250	—	2340	62	1.3	46	14	387	7300
20	24*	34.7	—	2340	62	1.3	46	14	387	7300
20	20	208	4.6	1935	55	1.25	34	8	341	6800
20	20	208	4.6	1935	55	1.25	34	8	341	6800
20	20	208	4.6	1935	55	1.25	34	8	341	6800
20	20	208	4.6	1935	55	1.25	34	11	341	6800
20	20*	32	4.6	1935	55	1.25	34	8	341	6800
20	20	32	4.4	1935	55	1.25	34	8.7	265	3600
20	20	12	4.6	1935	55	1.25	34	8	341	6800
20	20*	27	4.6	1935	55	1.25	34	8	341	6800
20	20*	27	—	1935	55	1.25	34	11	341	6800
20	14	156	—	1350	38	1	23.5	5.5	280	3800
20	14	138	—	1350	38	1	23.5	5.5	280	3800
20	14	156	—	1350	38	1	23.5	5.5	280	3800
20	14*	156	—	1350	38	1	23.5	5.5	280	3800
20	14	26.5	—	1350	38	1	23.5	5.5	280	3800
20	11	131	3.8	955	29	2.4	20	6.6	251	3100
20	11	125	3.8	955	29	2.4	20	6.6	251	3100
20	11	125	3.2	955	29	2.4	20	6.6	251	3100
20	11	125	3.8	955	29	2.4	20	6.6	251	3100
20	11*	131	3.8	955	29	2.4	20	6.6	251	3100
20	11*	131	3.2	955	29	2.4	20	6.6	251	3100
20	11*	27	3.8	955	29	2.4	20	6.6	251	3100
20	11*	27	3.2	955	29	2.4	20	6.6	251	3100
20	11	25	3.8	955	29	2.4	20	6.6	251	3100
20	8	96	—	608	19	1.3	11.5	2.8	159	1200
20	8	96	—	608	19	1.3	11.5	2.8	159	1200
20	8	27.5	—	608	19	1.3	11.5	2.8	159	1200
20	8	23	—	608	19	1.3	11.5	2.8	159	1200

\*  $R_{DS(ON)}$  measured at  $V_{GS}$  other than 10V, 4.5V or 1.8V.  
†  $Q_g$  measured with  $V_{GS} = 10V$ . In all other cases  $V_{GS} = 4.5V$ .



## $\alpha$ MOS5™ High Voltage Super Junction MOSFETs

Part Number		V <sub>DS</sub> (V)	R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = 10V	Package	Configuration	Polarity	ESD Diode	Schottky Diode
<b>V<sub>DS</sub> = 700V</b>								
AOD360A70	New	700	360	TO-252	Single	N	No	No
AOI360A70	New	700	360	TO-251A	Single	N	No	No
AOTF360A70L	New	700	360	TO-220F	Single	N	No	No
AOB600A70L	New	700	600	TO-263	Single	N	No	No
AOB600A70FL	New	700	600	TO-263	Single	N	No	No
AOD600A70	New	700	600	TO-252	Single	N	No	No
AOD600A70R	New	700	600	TO-252	Single	N	No	No
AOI600A70	New	700	600	TO-251A	Single	N	No	No
AOI600A70R	New	700	600	TO-252	Single	N	No	No
AOT600A70L	New	700	600	TO-220	Single	N	No	No
AOTF600A70FL	New	700	600	TO-220F	Single	N	No	No
AOWF600A70	New	700	600	TO-220F	Single	N	No	No
AOWF600A70F	New	700	600	TO-220F	Single	N	No	No
AOD950A70		700	950	TO-252	Single	N	No	No
AOI950A70		700	950	TO-251A	Single	N	No	No
AOD1R4A70		700	1400	TO-252	Single	N	No	No
AOI1R4A70		700	1400	TO-251A	Single	N	No	No

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

$V_{GS}$ (±V)	$I_D$ (A) 25°C	$P_D$ (W) 25°C	$V_{GS(th)}$ (max V)	$C_{iss}$ (pF)	$C_{oss}$ (pF)	$C_{rss}$ (pF)	$Q_g$ (nC)	$Q_{gd}$ (nC)	$T_{rr}$ (ns)	$Q_{rr}$ (nC)
20	12	138	—	1360	34	1.7	22.5	6.3	310	4800
20	12	138	—	1360	34	1.7	22.5	6.3	310	4800
20	12	29.5	—	1360	34	1.7	22.5	6.3	310	4800
20	8.5	104	—	870	23	1.3	15.5	4.3	245	3000
20	8.5	104	—	900	23	1.4	14.5	2.6	260	3500
20	8.5	104	—	870	23	1.3	15.5	4.3	245	3000
20	8.5	104	—	950	25	1.5	15.5	2.7	250	3500
20	8.5	104	—	870	23	1.3	15.5	4.3	245	3000
20	8.5	104	—	950	25	1.5	15.5	2.7	250	3500
20	8.5	104	—	870	23	1.3	15.5	4.3	245	3000
20	8.5	26	—	900	23	1.4	14.5	2.6	260	3500
20	8.5	25	—	870	23	1.3	15.5	4.3	245	3000
20	8.5	25	—	900	23	1.4	14.5	2.6	260	3500
20	5	56.5	4.1	461	15	1.4	10	2.8	200	2000
20	5	56.5	4.1	461	15	1.4	10	2.8	200	2000
20	3.8	32	4.1	354	12	1.3	8	2	176	1400
20	3.8	48	4.1	354	12	1.3	8	2	176	1400

\*  $R_{DS(ON)}$  measured at  $V_{GS}$  other than 10V, 4.5V or 1.8V.  
†  $Q_g$  measured with  $V_{GS} = 10V$ . In all other cases  $V_{GS} = 4.5V$ .

## $\alpha$ MOS1 High Voltage MOSFETs<sup>(1)</sup>

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> ( $\pm$ V)
<b>SOT-23A</b>							
AO3160E	SOT-23A-3	Single	N	Yes	No	600	20
<b>TO-220</b>							
AOT15S60L	TO-220	Single	N	No	No	600	30
AOT4S60	TO-220	Single	N	No	No	600	30
AOT7S60	TO-220	Single	N	No	No	600	30
AOT11S65	TO-220	Single	N	No	No	650	30
AOT25S65	TO-220	Single	N	No	No	650	30
<b>TO-220F</b>							
AOTF29S50	TO-220F	Single	N	No	No	500	30
AOTF11N60/L	TO-220F	Single	N	No	No	600	30
AOTF15S60/L	TO-220F	Single	N	No	No	600	30
AOTF20S60/L	TO-220F	Single	N	No	No	600	30
AOTF27S60/L	TO-220F	Single	N	No	No	600	30
AOTF42S60	TO-220F	Single	N	No	No	600	30
AOTF42S60L	TO-220F	Single	N	No	No	600	30
AOTF4N60/L	TO-220F	Single	N	No	No	600	30
AOTF4S60	TO-220F	Single	N	No	No	600	30
AOTF7S60	TO-220F	Single	N	No	No	600	30
AOTF8N80/L	TO-220F	Single	N	No	No	800	30
AOTF11S65	TO-220F	Single	N	No	No	650	30
AOTF15S65/L	TO-220F	Single	N	No	No	650	30
AOTF25S65	TO-220F	Single	N	No	No	650	30
AOTF7S65/L	TO-220F	Single	N	No	No	650	30
<b>TO-247</b>							
AOK29S50	TO-247	Single	N	No	No	500	30
AOK53S60	TO-247	Single	N	No	No	600	30
AOK20N60L	TO-247	Single	N	No	No	600	30
AOK20S60L	TO-247	Single	N	No	No	600	30
AOK27S60L	TO-247	Single	N	No	No	600	30
AOK42S60L	TO-247	Single	N	No	No	600	30
<b>TO-251</b>							
AOU4S60	TO-251	Single	N	No	No	600	30
<b>TO-251A</b>							
AOI11S60	TO-251A	Single	N	No	No	600	30
AOI4S60	TO-251A	Single	N	No	No	600	30
AOI7S65	TO-251A	Single	N	No	No	650	30
<b>TO-252</b>							
AOD11S60	TO-252	Single	N	No	No	600	30
AOD4S60	TO-252	Single	N	No	No	600	30
AOD7S60	TO-252	Single	N	No	No	600	30
AOD7S65	TO-252	Single	N	No	No	650	30

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

	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>	C <sub>iss</sub>	C <sub>oss</sub>	C <sub>rss</sub>	Q <sub>g</sub>	Q <sub>gd</sub>	T <sub>rr</sub>	Q <sub>rr</sub>
	25°C	25°C	10V	4.5V	2.5V	1.8V	(max V)	(pF)	(pF)	(pF)	(nC)	(nC)	(ns)	(nC)
	0.04	1.39	500000	600000			3.2	9.5	1.7	0.6	0.9	0.49	105	9.5
	15	208	290				3.8	717	58	1.3	15.6 <sup>†</sup>	6	282	4500
	4	83	900				4.1	263	21	0.75	6 <sup>†</sup>	1.8	177	1500
	7	104	600				3.9	372	28	1.2	8.2 <sup>†</sup>	2.8	198	2400
	11	198	399				4	646	42	1.1	13.2 <sup>†</sup>	4.3	278	4200
	25	357	190				4	1278	87	1.4	26.4 <sup>†</sup>	9.5	408	8270
	29	50	150				3.9	1312	88	2.5	26.6 <sup>†</sup>	9.2	387	7300
	11	50	650				4.5	1656	146	11.2	30.6 <sup>†</sup>	9.6	500	5900
	15	27.8	290				3.8	717	58	1.3	15.6 <sup>†</sup>	6	282	4500
	20	50	1990				2.8	1038	68	2.1	19.8	7.6	350	5700
	27	50	160				4	1294	80	2.3	26	8.8	440	7500
	39	50	99				3.8	2154	135	2.7	40 <sup>†</sup>	11.9	473	10500
	39	37.9	99				3.8	2154	135	2.7	40 <sup>†</sup>	11.9	473	10500
	4	35	2200				4.5	511	51	4.4	15	7.6	212	1600
	4	83	900				4.1	263	21	0.75	6 <sup>†</sup>	1.8	177	1500
	7	34	600				3.9	372	28	1.2	8.2 <sup>†</sup>	2.8	198	2400
	7.4	50	1630				4.5	1375	101	11	26	9.1	484	6000
	11	39	399				4	646	42	1.1	13.2 <sup>†</sup>	4.3	278	4200
	15	50	290				4	841	58	1.1	17.2 <sup>†</sup>	5.3	320	5500
	25	50	190				4	1278	87	1.4	26.4 <sup>†</sup>	9.5	408	8270
	7	25	650				4	434	30	17.5	9.2 <sup>†</sup>	2.7	224	2800
	29	357	150				3.9	1312	88	2.5	26.6 <sup>†</sup>	9.2	387	7300
	53	520	70				3.8	3034	222	3	59 <sup>†</sup>	19	664	14000
	20	417	370				4.5	3061	273	22.8	61	24	480	10.5
	20	266	199				4.1	1038	68	2.1	19.8	7.6	380	5.7
	27	357	160				4	1294	80	2.3	26	6.2	440	7.5
	39	417	99				3.8	2154	135	2.7	40	11.9	473	10.5
	4	56.8	900				4.1	263	21	0.75	6 <sup>†</sup>	1.8	177	1500
	11	208	399				4.1	545	37.3	1.42	11 <sup>†</sup>	3.8	250	3300
	4	56.8	900				4.1	263	21	0.75	6 <sup>†</sup>	1.8	177	1500
	7	89	650				4	434	30	17.5	9.2 <sup>†</sup>	2.7	224	2800
	11	208	399				4.1	545	37.3	1.42	11 <sup>†</sup>	3.8	250	3300
	4	56.8	900				4.1	263	21	0.75	6 <sup>†</sup>	1.8	177	1500
	7	83	600				3.9	372	28	1.2	8.2 <sup>†</sup>	2.8	198	2400
	7	89	650				4	434	30	17.5	9.2 <sup>†</sup>	2.7	224	2800

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## $\alpha$ MOS1 High Voltage MOSFETs<sup>(1)</sup> (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V <sub>DS</sub> (V)	V <sub>GS</sub> ( $\pm$ V)
<b>TO-262</b>							
AOW29S50	TO-262	Single	N	No	No	500	30
AOW11S60	TO-262	Single	N	No	No	600	30
AOW15S60	TO-262	Single	N	No	No	600	30
AOW20S60	TO-262	Single	N	No	No	600	30
AOW4S60	TO-262	Single	N	No	No	600	30
AOW7S60	TO-262	Single	N	No	No	600	30
AOW11S65	TO-262	Single	N	No	No	650	30
AOW15S65	TO-262	Single	N	No	No	650	30
AOW25S65	TO-262	Single	N	No	No	650	30
AOW7S65	TO-262	Single	N	No	No	650	30
<b>TO-262F</b>							
AOWF11S60	TO-262F	Single	N	No	No	600	30
AOWF15S60	TO-262F	Single	N	No	No	600	30
AOWF20S60	TO-262F	Single	N	No	No	600	30
AOWF4S60	TO-262F	Single	N	No	No	600	30
AOWF7S60	TO-262F	Single	N	No	No	600	30
AOWF11S65	TO-262F	Single	N	No	No	650	30
AOWF15S65	TO-262F	Single	N	No	No	650	30
AOWF25S65	TO-262F	Single	N	No	No	650	30
AOWF7S65	TO-262F	Single	N	No	No	650	30
<b>TO-263</b>							
AOB27S60L	TO-263	Single	N	No	No	600	30
AOB42S60L	TO-263	Single	N	No	No	600	30
AOB4S60	TO-263	Single	N	No	No	600	30
AOB7S60	TO-263	Single	N	No	No	600	30
AOB11S65	TO-263	Single	N	No	No	650	30
AOB15S65	TO-263	Single	N	No	No	650	30
AOB25S65	TO-263	Single	N	No	No	650	30
AOB7S65	TO-263	Single	N	No	No	650	30
<b>DFN 8x8</b>							
AOV11S60	DFN8x8	Single	N	No	No	600	30
AOV15S60	DFN8x8	Single	N	No	No	600	30
AOV20S60	DFN8x8	Single	N	No	No	600	30

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

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>oss</sub> (pF)	C <sub>rss</sub> (pF)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	T <sub>rr</sub> (ns)	Q <sub>rr</sub> (nC)
		10V	4.5V	2.5V	1.8V								
29	357	150				3.9	1312	88	2.5	26.6 <sup>†</sup>	9.2	387	7300
11	178	399				4.1	545	37.3	1.42	11 <sup>†</sup>	3.8	250	3300
15	208	290				3.8	717	58	1.3	15.6 <sup>†</sup>	6	282	4500
20	266	199				4.1	1038	68	2.1	19.8 <sup>†</sup>	7.6	350	5700
4	83	900				4.1	263	21	0.75	6 <sup>†</sup>	1.8	177	1500
7	104	600				3.9	372	28	1.2	8.2 <sup>†</sup>	2.8	198	2400
11	198	399				4	646	42	1.1	13.2 <sup>†</sup>	4.3	278	4200
15	208	290				4	841	58	1.1	17.2 <sup>†</sup>	5.6	320	5500
25	357	190				4	1278	87	1.4	26.4 <sup>†</sup>	9.5	408	8270
7	104	650				4	434	30	1	9.2 <sup>†</sup>	2.7	224	2800
11	28	399				4.1	545	37.3	1.42	11 <sup>†</sup>	3.8	250	3300
15	27.8	290				3.8	717	58	1.3	15.6 <sup>†</sup>	6	282	4500
20	28	199				4.1	1038	68	2.1	19.8 <sup>†</sup>	7.6	350	5700
4	83	900				4.1	263	21	0.75	6 <sup>†</sup>	1.8	177	1500
7	25	600				3.9	372	28	1.2	8.2 <sup>†</sup>	2.8	198	2400
11	28	399				4	646	42	1.1	13.2 <sup>†</sup>	4.3	278	4200
15	28	290				4	841	58	1.1	17.2 <sup>†</sup>	5.3	320	5500
25	28	190				4	1278	87	1.4	26.4 <sup>†</sup>	9.5	408	8270
7	25	650				4	434	30	1	9.2 <sup>†</sup>	2.7	224	2800
27	357	160				4	1294	80	2.3	26 <sup>†</sup>	8.8	440	7500
37	417	109				3.8	2154	135	2.7	40 <sup>†</sup>	11.9	473	10500
4	83	900				4.1	263	21	0.75	6 <sup>†</sup>	1.8	177	1500
7	104	600				3.9	372	28	1.2	8.2 <sup>†</sup>	2.8	198	2400
11	198	399				4	646	42	1.1	13.2 <sup>†</sup>	4.3	278	4200
15	208	290				4	841	58	1.1	17.2 <sup>†</sup>	5.3	320	5500
25	357	190				4	1278	87	1.4	26.4 <sup>†</sup>	9.5	408	8270
7	104	650				4	434	30	17.5	9.2 <sup>†</sup>	2.7	224	2800
8	156	500				4.1	545	37.3	1.42	11 <sup>†</sup>	3.8	250	3300
12	208	360				3.8	717	58	1.3	15.6 <sup>†</sup>	6	282	4500
18	276	250				4.1	1038	68	2.1	20 <sup>†</sup>	7.6	350	5700

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Intelligent Power Modules (IPMs)

Part Number	Package	Description	Input Logic
<b>IPM-5 / IPM-5A</b>			
AIM5C05B060N1	IPM-5	3-Phase IGBT IPM	Active High
AIM5D05B060N1	IPM-5	3-Phase IGBT IPM	Active High
AIM5D05K060M2	IPM-5A	3-Phase ESD IGBT IPM	Active High
AIM5D05K060M2S	IPM-5A	3-Phase ESD IGBT IPM	Active High
AIM5D10B060M1	IPM-5	3-Phase IGBT IPM	Active High

## 6-Channel High Voltage ICs (HVICs)

Part Number		Package	Input Logic	Output Current (mA) I <sub>O+</sub> (mA) I <sub>O-</sub>	
SOP-28					
AGD8136A	New	SOP-28L	Active Low	200	350
AGD8156A	New	SOP-28L	Active High	200	350
AGD8236A	New	SOP-28L	Active Low	200	350
AGD8256A	New	SOP-28L	Active High	200	350
AGD8252B1	New	SOP-8L	Active High	200	350
AGD8252B2	New	SOP-8L	Active High	200	350

## Insulated-Gate Bipolar Transistors (IGBTs) – Single

Part Number		Package	Configuration	V <sub>CE</sub> (max) (V)
TO-247				
AOK40B120P1	New	TO-247	IGBT with Anti-Parallel Diode	1200
AOKS30B60D1		TO-247	IGBT	600
AOKS40B65H2AL		TO-247	IGBT	650
AOKS40B60D1		TO-247	IGBT	600

## Insulated-Gate Bipolar Transistors (IGBTs) – Co-Pack

Part Number	Package	Configuration	V <sub>CE</sub> (max) (V)	I <sub>C</sub> (max) (A) 25°C	I <sub>C</sub> (max) (A) 100°C
<b>TO-220</b>					
AOT5B65M1	TO-220	IGBT with Anti-Parallel Diode	650	10	5
AOT10B65M1	TO-220	IGBT with Anti-Parallel Diode	650	10	10
AOT10B65M2	TO-220	IGBT with Anti-Parallel Diode	650	10	10
AOT15B65M1	TO-220	IGBT with Anti-Parallel Diode	650	30	15
AOT15B65M3	TO-220	IGBT with Anti-Parallel Diode	650	30	15
AOT20B65M1	TO-220	IGBT with Anti-Parallel Diode	650	40	20
AOT5B60D	TO-220	IGBT with Anti-Parallel Diode	600	10	5
AOT10B60D	TO-220	IGBT with Anti-Parallel Diode	600	20	10
AOT15B60D	TO-220	IGBT with Anti-Parallel Diode	600	30	15

Rated Voltage (V)	Rated Current (A)	Emitter Configuration	Pin Length
600	5	Common	Normal
600	5	Separated	Normal
600	5	Separated	Normal
600	5	Separated	Short
600	10	Separated	Normal

V <sub>CC</sub> Set	UVLO Typ. (V) Reset	V <sub>BD</sub> Set	UVLO Typ. (V) Reset
8.2	8.9	8.2	8.9
8.2	8.9	8.2	8.9
11.4	11.9	10	11
11.4	11.9	10	11
11.4	11.9	10	11
11.4	11.9	10	11

I <sub>C</sub> (max) (A)		V <sub>CE(sat)</sub> (typ) (V)	E <sub>ON</sub> (typ) (mJ)	E <sub>OFF</sub> (typ) (mJ)	Qg (typ) (nC)
25°C	100°C				
80	40	1.83	2.5	1.3	202
60	30	2	1.1	0.24	34
80	40	2.05	1.17	0.54	61
80	40	1.85	1.55	0.3	45

V <sub>CE(sat)</sub> (typ) (V)	E <sub>ON</sub> (typ) (mJ)	E <sub>OFF</sub> (typ) (mJ)	Qg (typ) (nC)	V <sub>F</sub> (typ) (V)	Qrr (typ) (μC)	I <sub>rm</sub> (typ) (A)
1.57	0.08	0.07	14	1.8	0.24	2.78
1.6	0.18	0.13	24	1.9	0.4	3.8
1.6	0.18	0.13	24	1.6	0.45	4
1.7	0.29	0.2	32	1.77	0.7	4.7
1.95	0.28	0.19	25.4	1.9	0.4	3.8
1.7	0.47	0.27	46	1.66	0.8	5.2
1.55	0.14	0.04	9.4	1.46	0.23	4.4
1.53	0.26	0.07	17.4	1.52	0.25	5
1.6	0.42	0.11	25.4	1.43	0.48	5.8



## Insulated-Gate Bipolar Transistors (IGBTs) — Co-Pack (Continued)

Part Number	Package	Configuration	V <sub>CE</sub> (max) (V)	I <sub>C</sub> (max) (A)		
				25°C	100°C	
TO-220F						
AOTF5B60D	TO-220F	IGBT with Anti-Parallel Diode	600	10	5	
AOTF5B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	10	5	
AOTF5B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	10	5	
AOTF10B60D	TO-220F	IGBT with Anti-Parallel Diode	600	20	10	
AOTF10B60D2	TO-220F	IGBT with Anti-Parallel Diode	600	23	10	
AOTF10B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	20	10	
AOTF10B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	20	10	
AOTF15B60D	TO-220F	IGBT with Anti-Parallel Diode	600	30	15	
AOTF15B60D2	TO-220F	IGBT with Anti-Parallel Diode	600	23	15	
AOTF15B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	30	15	
AOTF15B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	30	15	
AOTF15B65M3	TO-220F	IGBT with Anti-Parallel Diode	650	30	15	
<b>AOTF15B65MQ1</b>	<b>New</b>	<b>TO-220F</b>	<b>IGBT with Anti-Parallel Diode</b>	<b>650</b>	<b>30</b>	<b>15</b>
AOTF20B65LN2	TO-220F	IGBT with Anti-Parallel Diode	650	40	20	
AOTF20B65M1	TO-220F	IGBT with Anti-Parallel Diode	650	40	20	
AOTF20B65M2	TO-220F	IGBT with Anti-Parallel Diode	650	40	20	
TO-247						
AOK20B135D1	TO-247	IGBT with Anti-Parallel Diode	1350	40	20	
AOK20B135E1	TO-247	IGBT with Anti-Parallel Diode	1350	40	20	
AOK30B135W1	TO-247	IGBT with Anti-Parallel Diode	1350	60	30	
AOK20B120E1	TO-247	IGBT with Anti-Parallel Diode	1200	40	20	
AOK20B120E2	TO-247	IGBT with Anti-Parallel Diode	1200	40	20	
AOK20B120D1	TO-247	IGBT with Anti-Parallel Diode	1200	40	20	
AOK30B120D2	TO-247	IGBT with Anti-Parallel Diode	1200	60	30	
AOK40B120H1	TO-247	IGBT with Anti-Parallel Diode	1200	80	40	
AOK20B65M1	TO-247	IGBT with Anti-Parallel Diode	650	40	20	
AOK20B65M2	TO-247	IGBT with Anti-Parallel Diode	650	40	20	
AOK30B65M2	TO-247	IGBT with Anti-Parallel Diode	650	60	30	
AOK40B65H1	TO-247	IGBT with Anti-Parallel Diode	650	80	40	
AOK40B65H2AL	TO-247	IGBT with Anti-Parallel Diode	650	80	40	
AOK40B65M3	TO-247	IGBT with Anti-Parallel Diode	650	80	40	
AOK50B65H1	TO-247	IGBT with Anti-Parallel Diode	650	100	50	
AOK50B65M2	TO-247	IGBT with Anti-Parallel Diode	650	80	40	
AOK60B65H1	TO-247	IGBT with Anti-Parallel Diode	650	120	60	
AOK60B65H2AL	TO-247	IGBT with Anti-Parallel Diode	650	120	60	
AOK60B65M3	TO-247	IGBT with Anti-Parallel Diode	650	120	60	
AOK75B65H1	TO-247	IGBT with Anti-Parallel Diode	650	150	75	
AOK10B60D	TO-247	IGBT with Anti-Parallel Diode	600	20	10	
AOK15B60D	TO-247	IGBT with Anti-Parallel Diode	600	30	15	
AOK20B60D1	TO-247	IGBT with Anti-Parallel Diode	600	40	20	
AOK30B60D	TO-247	IGBT with Anti-Parallel Diode	600	60	30	
AOK30B60D1	TO-247	IGBT with Anti-Parallel Diode	600	60	30	
AOK40B60D	TO-247	IGBT with Anti-Parallel Diode	600	80	40	
AOK40B60D1	TO-247	IGBT with Anti-Parallel Diode	600	80	40	
AOK50B60D1	TO-247	IGBT with Anti-Parallel Diode	600	100	50	
AOK60B60D1	TO-247	IGBT with Anti-Parallel Diode	600	120	60	
AOK75B60D1	TO-247	IGBT with Anti-Parallel Diode	600	150	75	

$V_{CE(sat)}$ (typ) (V)	$E_{ON}$ (typ) (mJ)	$E_{OFF}$ (typ) (mJ)	$Q_g$ (typ) (nC)	$V_F$ (typ) (V)	$Q_{rr}$ (typ) ( $\mu$ C)	$I_{rm}$ (typ) (A)
1.55	0.14	0.04	9.4	1.46	0.23	4.4
1.57	0.08	0.07	14	1.8	0.24	2.78
1.57	0.08	0.07	14	1.48	0.27	3.5
1.53	0.26	0.07	17.4	1.52	0.25	5
1.55	0.14	0.04	9.4	1.46	0.23	4.4
1.6	0.18	0.13	24	1.9	0.4	3.8
1.6	0.18	0.13	24	1.6	0.5	4
1.6	0.42	0.11	25.4	1.43	0.48	5.8
1.53	0.26	0.07	17.4	1.52	0.25	5
1.7	0.29	0.2	32	1.77	0.7	4.7
1.7	0.29	0.2	32	1.5	0.7	5.4
1.95	0.28	0.19	25.4	1.9	0.4	3.8
<b>1.7</b>	<b>0.29</b>	<b>0.2</b>	<b>32</b>	<b>1.65</b>	<b>0.24</b>	<b>3.9</b>
1.54	0.45	0.26	14	1.6	0.6	5.4
1.7	0.47	0.27	46	1.66	0.8	5.2
1.7	0.58	0.28	46	1.56	0.8	5.6
1.57		1.05	66	1.46		
1.8		0.8	58	1.6		
1.8		1.47	62	1.6		
1.68		0.83	60.5	1.6		
1.75		0.82	53.5	1.6		
1.54		0.94	67.5	1.33		
1.77		1.28	67	1.5		
1.8	2.45	1.24	128	2.8	1.1	6.5
1.7	0.47	0.27	46	1.66	1.6	7.1
1.7	0.58	0.28	46	1.56	0.8	5.6
1.66	1.02	0.41	63	1.56	1.2	7.4
1.9	1.27	0.46	63	2.22	1	6.2
2.05	1.17	0.54	61	2.12	0.7	4.7
1.95	1.3	0.5	59	2.22	1	6
1.9	1.92	0.85	76	2.25	0.9	6.3
1.95	1.3	0.5	59	2.22	1	6
1.88	2.42	1.17	90	2.08	1.2	7.8
1.95	2.36	1.17	84	1.88		6
1.94	2.6	1.3	106	1.91	1.3	7.5
1.85	3.77	2.04	109	2.15	1.2	7.9
1.53	0.32	0.07	17.4	1.52	0.25	5
1.6	0.51	0.11	25.4	1.43	0.48	5.8
1.85	0.76	0.18	24.6	1.35	0.43	6.5
1.6	1.18	0.2	47	1.34	0.8	9.5
1.85	1.1	0.24	34	1.47	0.50	7
1.6	1.72	0.3	63.5	1.36	0.86	10
1.85	1.55	0.3	45	1.42	0.63	8
1.85	2.37	0.5	64	1.4	0.77	9
1.85	3.1	0.73	75	1.34	0.84	10
1.72	3.7	1.3	118	1.44	0.9	10

## Insulated-Gate Bipolar Transistors (IGBTs) — Co-Pack (Continued)

Part Number		Package	Configuration	V <sub>CE</sub> (max) (V)	I <sub>C</sub> (max) (A) 25°C100°C	
TO-252						
AOD5B65M1		TO-252	IGBT with Anti-Parallel Diode	650	10	5
AOD5B65M1H		TO-252	IGBT with Anti-Parallel Diode	650	10	5
AOD5B65MQ1E	New	TO-252	IGBT with Anti-Parallel Diode	650	10	5
AOD5B65N1		TO-252	IGBT with Anti-Parallel Diode	650	10	5
AOD5B60D		TO-252	IGBT with Anti-Parallel Diode	600	10	5
AOD6B60M1		TO-252	IGBT with Anti-Parallel Diode	600	12	6
AOD7B65M3		TO-252	IGBT with Anti-Parallel Diode	650	14	7
AOD8B65MQ1	New	TO-252	IGBT with Anti-Parallel Diode	650	16	8
TO-263						
AOB5B65M1		TO-263	IGBT with Anti-Parallel Diode	650	10	5
AOB10B65M1		TO-263	IGBT with Anti-Parallel Diode	650	20	10
AOB15B65M1		TO-263	IGBT with Anti-Parallel Diode	650	30	15
AOB5B60D		TO-263	IGBT with Anti-Parallel Diode	600	10	5
AOB10B60D		TO-263	IGBT with Anti-Parallel Diode	600	20	10
AOB15B60D		TO-263	IGBT with Anti-Parallel Diode	600	30	15
AOB20B65M1		TO-263	IGBT with Anti-Parallel Diode	650	40	20

$V_{CE(sat)}$ (typ) (V)	$E_{ON}$ (typ) (mJ)	$E_{OFF}$ (typ) (mJ)	$Q_g$ (typ) (nC)	$V_F$ (typ) (V)	$Q_{rr}$ (typ) ( $\mu$ C)	$I_{rm}$ (typ) (A)
1.57	0.08	0.07	14	1.8	0.24	2.78
1.57	0.08	0.07	14	1.8	0.24	2.78
<b>2.15</b>	<b>0.09</b>	<b>0.06</b>	<b>8.8</b>	<b>2.06</b>	<b>0.11</b>	<b>2.46</b>
2.5	0.081	0.049	9.2	2.13	0.19	2.5
1.6	0.14	0.04	9.4	1.46	0.23	4.4
1.7	0.12	0.09	14	1.45	0.15	3.5
1.87	0.108	0.099	14	2.6	0.29	3
<b>1.8</b>	<b>0.16</b>	<b>0.11</b>	<b>22</b>	<b>1.52</b>	<b>0.2</b>	<b>3.49</b>
1.57	0.08	0.07	14	1.8	0.24	2.78
1.6	0.18	0.13	24	1.9	0.4	3.8
1.7	0.29	0.2	32	1.77	0.7	4.7
1.55	0.18	0.09	9.4	1.46	0.23	4.4
1.6	0.26	0.07	17.4	1.52	0.25	5
1.6	0.42	0.11	25.4	1.43	0.48	5.8
1.7	0.47	0.27	46	1.66	0.8	5.2

## Package Type

AOS delivers advanced package technologies that meet the ever-increasing performance and power-efficiency requirements of our customers. We offer a range of package options to support a wide spectrum of end-applications,



AlphaDFN™ (0.925x0.525)  
AlphaDFN™ (0.97x0.97)  
AlphaDFN (1.2x1.2)  
AlphaDFN (1.5x1.5)  
AlphaDFN (1.57x1.57)



AlphaDFN™ (1.7x1.7)  
AlphaDFN (1.79x1.18)  
AlphaDFN (1.79x1.47)  
AlphaDFN (1.79x1.79)  
AlphaDFN (1.84x1.96)  
AlphaDFN (1.9x1.6)



AlphaDFN™ (2.7x1.8)  
AlphaDFN (2.98x1.49)  
AlphaDFN (3.01x1.52)



AlphaDFN™ (3.4x1.96)  
AlphaDFN (3.55x1.77)  
AlphaDFN (4.01x1.96)



WLCSP (1.57x1.57)  
WLCSP (1.6x1.6)  
WLCSP (1.8x1.31)



DFN (0.6x0.3)  
DFN (0.62x0.32)  
DFN (1.0x0.6)



DFN (1.3x0.8)  
DFN (1.6x0.8)



DFN (1.2x1.0)  
DFN (1.45x1.0)  
DFN (1.6x1.0)



DFN (1.2x1.6)  
DFN (1.8x1.2)



DFN (1.6x1.6)



DFN (2x1.0)  
DFN (2x1.25)



DFN (2x2)



DFN (2x4)



DFN (2.5x1.0)



DFN (2.5x1.2)



DFN (2.6x2.6)



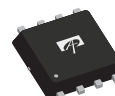
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(DFN 3x1.35)



(DFN 3x2)



DFN 3x3



DFN (3.3x1.3)



DFN (3.3x3.3)



DFN (3.5x1.2)



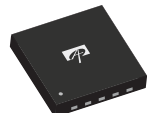
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DFN (4x1.6)  
DFN (4.1x2.0)



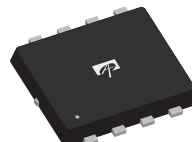
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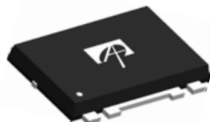
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DFN (5x6)



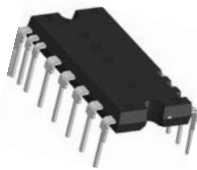
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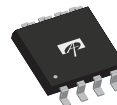
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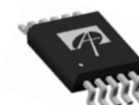
DFN (8x8)



IPM-5 / IPM-5A



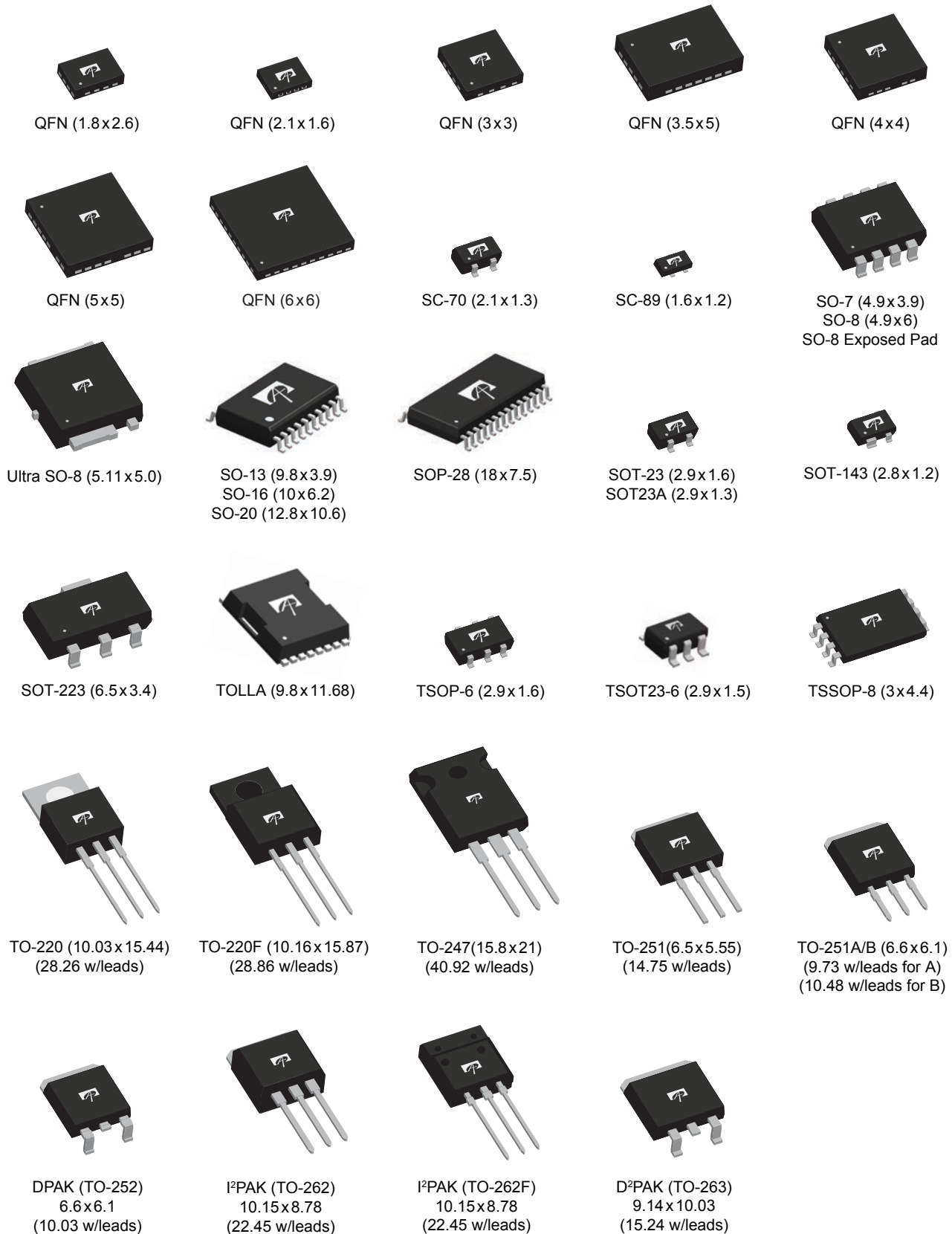
MSOP-8 (3x4.9)



MSOP-10 (3x4.9)

**NOTE:** Images are not to scale

from handheld, to computing, to consumer, and high-power industrial applications.



**NOTE:** Images are not to scale

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