



Selector Guide

Winter/Spring 2020



www.aosmd.com

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"> ■ Notebooks ■ Netbooks ■ Desktops ■ NB Battery Packs ■ Game Consoles ■ Docking Stations ■ Computer Monitors 	<ul style="list-style-type: none"> ■ Servers ■ Data Storage Devices ■ Ultra Notebooks ■ Tablets ■ Graphic Cards 	<ul style="list-style-type: none"> ■ Quick Charger ■ TV DC-DC Conversion ■ LED Drivers ■ LED Backlighting ■ Home Appliances ■ Induction Heating 	<ul style="list-style-type: none"> ■ Mobile Phones ■ Networking ■ Battery Packs 	<ul style="list-style-type: none"> ■ Motor Controls ■ Power Supplies ■ Telecom Power ■ Lighting ■ Welding ■ PV Inverters
KEY FAMILIES / PLATFORMS	<ul style="list-style-type: none"> ■ Low and Medium Voltage MOSFETs <ul style="list-style-type: none"> - Gen5+ - XSFET™ Family - AlphaSGT2 - Load Switch ■ Power ICs <ul style="list-style-type: none"> - DC-DC EZBuck™ - DrMOS - Smart Load Management - Type C PD ■ Digital Power <ul style="list-style-type: none"> - Controller - SPS ■ TVS <ul style="list-style-type: none"> - ESD TVS - Surge TVS 	<ul style="list-style-type: none"> ■ Power ICs <ul style="list-style-type: none"> - DC-DC EZBuck™ - DrMOS - Smart Load Management - Type C PD ■ Low and Medium Voltage MOSFETs <ul style="list-style-type: none"> - Gen5+ - XSFET™ Family - AlphaSGT2 - AlphaDFN™ ■ αGaN™ ■ Digital Power <ul style="list-style-type: none"> - Controller - SPS ■ TVS <ul style="list-style-type: none"> - ESD TVS - Surge TVS 	<ul style="list-style-type: none"> ■ Power ICs <ul style="list-style-type: none"> - DC-DC EZBuck™ - AC/DC - Smart Load Management ■ Low and Medium Voltage MOSFETs <ul style="list-style-type: none"> - Gen5+ - AlphaSGT2 ■ High Voltage Super Junction MOSFETs <ul style="list-style-type: none"> - 600V αMOS5™ - 700V αMOS5™ ■ αGaN™ ■ IPMs <ul style="list-style-type: none"> - 600V IPM ■ IGBTs <ul style="list-style-type: none"> - 650V IGBT/FRD - 1200V & 1350V IGBT/FRD ■ TVS <ul style="list-style-type: none"> - ESD TVS - Surge TVS 	<ul style="list-style-type: none"> ■ Power ICs <ul style="list-style-type: none"> - DC-DC EZBuck™ - DrMOS - Smart Load Management ■ Low and Medium Voltage MOSFETs <ul style="list-style-type: none"> - Gen5+ - XSFET™ Family - AlphaSGT2 - AlphaDFN™ ■ TVS <ul style="list-style-type: none"> - ESD TVS - Surge TVS 	<ul style="list-style-type: none"> ■ Medium Voltage MOSFETs <ul style="list-style-type: none"> - AlphaSGT2 ■ High Voltage Super Junction MOSFETs <ul style="list-style-type: none"> - 600V αMOS5™ - 700V αMOS5™ ■ αGaN™ ■ IPMs <ul style="list-style-type: none"> - 600V IPM ■ IGBTs <ul style="list-style-type: none"> - 650V IGBT/FRD



DIVERSE CUSTOMER BASE

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

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

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

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MOSFETs, IGBTs, IPMs AND HVICs

Low Voltage MOSFETs (<40V)

By Package

AlphaDFN™ 0.97x0.97.....	22
AlphaDFN™ 1.2x1.2.....	22
AlphaDFN™ 1.5x1.5/1.57x1.57	22
AlphaDFN™ 1.79x1.18.....	22
AlphaDFN™ 1.84x1.96.....	22
AlphaDFN™ 1.9x1.6.....	22
AlphaDFN™ 3.4x1.96.....	22
AlphaDFN™ 3.01x1.52.....	22
AlphaDFN™ 3.05x1.77.....	22
AlphaDFN™ 3.55x1.77.....	22
DFN 1.6x0.6.....	22
DFN 1.6x1.6.....	22
DFN 2x2.....	22
DFN 2x5.....	24
DFN 3x2.....	24
DFN 3x3.....	24
DFN 3.3x3.3.....	26
DFN 3.3x3.3 (XSPairFET™).....	26
DFN 4x3A	26
DFN 5x6.....	26
DFN 5x6 (PairFET™)	27
DFN 5x6E (XSPairFET™)	29
SC-70	29
SO-8.....	31
Ultra SO-8.....	33
SOT-23	33
TO-251A	33
TO-252	33
TSOP-6.....	35
TSSOP-8	35

Medium Voltage MOSFETs (40V to 400V)

By Package

DFN 2x2.....	37
DFN 3x3.....	37
DFN 3.3x3.3.....	37
DFN 5x6 (XSFET™).....	37
DFN 5x6.....	37
DFN 8x6.....	40

Medium Voltage MOSFETs (40V to 400V) (Continued)

By Package

SO-8	40
Ultra SO-8	41
SOT-223	41
SOT-23-3	41
TO-220	41
TO-220F	41
TO-247	44
TO-251A	44
TO-251B	44
TO-252	44
TO-262	46
TO-262F	48
TO-263	48
TOLLA	48
TSOP-6	48

Q.MOS5™ High Voltage Super Junction MOSFETs

By Voltage

V _{DS} = 600V	50
V _{DS} = 700V	51

Q.MOS1 High Voltage MOSFETs

By Package

DFN 8x8	54
SOT-23A	54
TO-220	54
TO-220F	54
TO-247	54
TO-251	54
TO-251A	54
TO-252	56
TO-262	56
TO-262F	56
TO-263	56

Intelligent Power Modules (IPMs)

By Package

IPM-5 / IPM-5A	57
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6-Channel High Voltage ICs (HVICs)

By Package

SOP-28	57
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Insulated-Gate Bipolar Transistors (IGBTs) – Single

By Package

TO-247	58
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Insulated-Gate Bipolar Transistors (IGBTs) – Co-Pack

By Package

TO-220	59
TO-220F	59
TO-247	59
TO-247	61
TO-252	61
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Package Type	63
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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 Sync Buck Regulator with Power Good Indicator	Yes	4ms
AOZ1037PI-01	5A Sync Buck Regulator with Power Good Indicator	Yes	3ms
AOZ2140DI	3A Sync Buck Regulator with Output Load Switch	Yes	4ms
AOZ2150EQI-30	3A Sync Buck Regulator with 1MHz Switching Frequency	No	Adjustable
AOZ2151EQI-30	4A Sync Buck Regulator with 1MHz Switching Frequency	No	Adjustable
AOZ2151PQI-03	4A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable
AOZ2151PQI-05	4A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable
AOZ2151PQI-10	4A Sync Buck Regulator with Auto Restart after Fault Protection	No	Adjustable
AOZ2151QI-01	4A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable
AOZ2151TQI-19	4A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable
AOZ2152EQI-28	5A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable
AOZ2152EQI-29	5A Sync Buck Regulator for Low Noise Application	No	Adjustable
AOZ2152EQI-30	6A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable
AOZ2152EQI-31	6A Sync Buck Regulator for Low Noise Application	No	Adjustable
AOZ2152TQI-19	6A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable
AOZ2153EQI-30	8A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable
AOZ2153PQI-04	8A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable
AOZ2231CQI-01	4A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms
AOZ2231CQI-11	4A I ² C Controllable Sync Buck Regulator 0.9V ~ 1.191V Output Range	Yes	4ms
AOZ2231CQI-21	New 4A I²C Controllable Sync Buck Regulator 0.7V ~ 0.926V Output Range	Yes	4ms
AOZ2232CQI-02	6A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms
AOZ2233CQI-02	8A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms
AOZ2233CQI-12	8A I ² C Controllable Sync Buck Regulator 0.9V ~ 1.191V Output Range	Yes	4ms
AOZ2233CQI-22	New 8A I²C Controllable COT EZBuck Regulator 0.7V ~ 0.926V Output Range	Yes	4ms
AOZ2234CQI-02	10A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms
AOZ2235CQI-02	12A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms
AOZ2236CQI-02	15A I ² C Controllable Sync Buck Regulator 0.6V ~ 1.791V Output Range	Yes	4ms
AOZ2238QI-01	New 10 Sync Buck Regulator with 2.7V Low Input Voltage	No	Adjustable
AOZ2250BQI-22	New 3A Constant Current Sync Buck Regulator	No	Adjustable
AOZ2253EQI-30	8A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable
AOZ2253TQI-11	8A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable
AOZ2253TQI-20	8A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable
AOZ2254EQI-30	10A COT EZBuck Regulator with Light Load Mode	No	Adjustable
AOZ2254TQI-11	10A Sync Buck Regulator with Power Good Indicator	No	Adjustable
AOZ2254TQI-20	10A Sync Buck Regulator with Power Good Indicator	Yes	Adjustable
AOZ2255EQI-30	12A Sync Buck Regulator with Selectable Light Load Mode	No	Adjustable
AOZ2255LQI-30	12A Sync Buck Regulator with 0.6V Low Output Voltage	Yes	Adjustable
AOZ2255LQI-31	New 12A Sync Buck Regulator with 0.6V Low Output Voltage	Yes	Adjustable
AOZ2260AQI-10	6A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2260AQI-15	6A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable
AOZ2260AQI-18	6A Sync Buck Regulator with Selectable Light Load Mode	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	EPAD SO-8
3.0	5.5	3.0	0.8	3.3	650	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	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	4.0	0.7	0.926	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	8.0	0.7	0.926	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
2.7	28	10	0.8	24	1000	QFN 4x4
6.5	28	3.0	5.0	20.0	200	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	0.6	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
AOZ2261AQI-10	8A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2261AQI-15	8A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable
AOZ2261AQI-18	8A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2261NQi-11	8A Sync Buck Regulator for nVidia Platform	Yes	Adjustable
AOZ2262AQI-10	10A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2262AQI-15	10A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable
AOZ2262AQI-18	10A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2263AQI-10	12A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2263AQI-15	12A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable
AOZ2263AQI-18	12A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2264NQi-11	15A Sync Buck Regulator for nVidia Platform	Yes	Adjustable
AOZ2264Qi-11	15A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2264Qi-15	15A Sync Buck Regulator with Auto Restart after Fault Protection	Yes	Adjustable
AOZ2264Qi-18	15A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2264Qi-19	15A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2264Qi-20	15A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2264VQi	15A Sync Buck Regulator for Intel VCC-AUX	Yes	1.5 ms
AOZ2367Qi-11	20A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2368Qi-11	25A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ2369Qi-11	30A Sync Buck Regulator with Selectable Light Load Mode	Yes	Adjustable
AOZ6604PI	4A Sync Buck Regulator with Automatic Light Load Mode	No	External - Programmable
AOZ6605PI	5A Sync Buck Regulator with Automatic Light Load Mode	No	External - Programmable
AOZ6605PI-1	5A Sync Buck Regulator with Automatic Light Load Mode	No	External - Programmable
AOZ6606PI	5A Sync Buck with Automatic Light Load Mode	No	External - Programmable
AOZ6622DI	2A Sync Buck Regulator in DFN3x3	No	1.5 ms
AOZ6623DI	3A Sync Buck Regulator in DFN3x3	No	1.5 ms
AOZ6643DI	3A Sync Buck Regulator in DFN3x3	No	4 ms
AOZ6662DI	2A Sync Buck Regulator in DFN3x3	No	3.5 ms
AOZ6662DI-01	2A Sync Buck Regulator with Output Adaptive Light Load Mode	No	3.5 ms
AOZ6663DI	3A Sync Buck Regulator in DFN3x3	No	3.5 ms
AOZ6663DI-01	3A Sync Buck Regulator with Output Adaptive Light Load Mode	No	3.5 ms
AOZ6682CI	2A Sync Buck Regulator in SOT23	No	2.8 ms
AOZ6683CI	3A Sync Buck Regulator in SOT23	No	2.8 ms
AOZ6762DI	2A Sync Buck Regulator with 1.25MHz Switching Frequency	No	3.5ms
AOZ6763DI	3A Sync Buck Regulator with 1.25MHz Switching Frequency	No	3.5ms

Min V _{IN} (V)	Max V _{IN} (V)	Max I _{OUT} (A)	Min V _{OUT} (V)	Max V _{OUT} (V)	Operating Freq. (kHz)	Package
4.0	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
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
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	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
4.0	24.0	16.0	0.0	1.8	450	QFN 4x4
4.5	24	20	0.6	20	1000	QFN 5x5
4.5	24	25	0.6	20	1000	QFN 5x5
4.5	24	30	0.6	20	1000	QFN 5x5
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 Non Sync Buck Regulator	Yes	2.2 ms
AOZ1016AI	2A Non Sync Buck Regulator	Yes	2.2 ms
AOZ1084DI	36V Non Sync Buck LED Driver	No	0.4 ms
AOZ1210AI	2A Non Sync Buck Regulator	No	4.0 ms
AOZ1212AI	3A Non Sync Buck Regulator	No	4.0 ms
AOZ1212DI	3A Non Sync Buck Regulator	No	4.0 ms
AOZ1280CI	1.2A Non Sync Buck with 3V Low Input Voltage	No	0.4 ms
AOZ1281DI	1.8A Non Sync Buck with 3V Low Input Voltage	No	0.4 ms
AOZ1282CI	1.2A 36V High Voltage Non Sync Buck in SOT23	No	0.4 ms
AOZ1282CI-1	0.6A 36V High Voltage Non Sync Buck	No	0.4 ms
AOZ1282CI-2	0.6A 36V High Voltage Non Sync Buck with 97% Max Duty Cycle	No	0.4 ms
AOZ1282DI	1.2A 36V High Voltage Non Sync Buck in DFN	No	0.4 ms
AOZ1283PI	2.5A 3V ~ 36V Wide Input Range Non Sync Buck	No	Adjustable
AOZ1284PI	4A 3V ~ 36V Wide Input Range Non Sync Buck	No	Adjustable

Type C Protection Switches – ECPower™ Family

Part Number	Description	Ops V_{IN} (V)	Absolute Max V_{IN} and V_{OUT} (V)
AOZ1324DI-01 <i>New</i>	20V ECPower 32mΩ Thermal Enhanced Protection Sink Switch	3.4 - 22	28
AOZ1324DI-02 <i>New</i>	20V ECPower 32mΩ Thermal Enhanced Protection Sink Switch	3.4 - 22	28
AOZ1327DI-01	20V ECPower 20mΩ Thermal Enhanced Protection Sink Switch	2.4 - 22	28
AOZ1327DI-02	20V ECPower 20mΩ Thermal Enhanced Protection Sink Switch	2.4 - 22	28
AOZ1351DI-01 <i>New</i>	5V ECPower 38mΩ Protection Source Switch	3.4 - 5.5	28 on V_{OUT}
AOZ1353DI-01	5V ECPower 40mΩ Protection Source Switch	3.4 - 5.5	28 on V_{OUT}
AOZ1353DI-02	5V ECPower 40mΩ Protection Source Switch	3.4 - 5.5	28 on V_{OUT}
AOZ1353DI-03	5V ECPower 40mΩ Protection Source Switch Fast Shutdown at Fault	3.4 - 5.5	28 on V_{OUT}
AOZ1353DI-04	5V ECPower 40mΩ Protection Source Switch Fast Shutdown at Fault	3.4 - 5.5	28 on V_{OUT}
AOZ1353LI-01	5V ECPower 32mΩ Protection Source Switch	3.4 - 5.5	28 on V_{OUT}
AOZ1353LI-02	5V ECPower 32mΩ Protection Source Switch	3.4 - 5.5	28 on V_{OUT}
AOZ1353LI-03	5V ECPower 32mΩ Protection Source Switch Fast Shutdown at Fault	3.4 - 5.5	28 on V_{OUT}
AOZ1353LI-04	5V ECPower 32mΩ Protection Source Switch Fast Shutdown at Fault	3.4 - 5.5	28 on V_{OUT}
AOZ1356DI-01 <i>New</i>	5V ECPower 39mΩ Protection Source Switch	3.4 - 5.5	28 on V_{OUT}
AOZ1356DI-02 <i>New</i>	5V ECPower 39mΩ Protection Source Switch	3.4 - 5.5	28 on V_{OUT}
AOZ1356DI-05 <i>New</i>	5V ECPower 39mΩ Protection Source Switch	3.6 - 5.3	28 on V_{OUT}
AOZ1356DI-06 <i>New</i>	5V ECPower 39mΩ Protection Source Switch	3.6 - 5.3	28 on V_{OUT}
AOZ1356LI-01	5V ECPower 34mΩ Protection Source Switch	3.4 - 5.5	28 on V_{OUT}
AOZ1356LI-02	5V ECPower 34mΩ Protection Source Switch	3.4 - 5.5	28 on V_{OUT}
AOZ1356LI-05	5V ECPower 34mΩ Protection Source Switch	3.6 - 5.3	28 on V_{OUT}
AOZ1356LI-06	5V ECPower 34mΩ Protection Source Switch	3.6 - 5.3	28 on V_{OUT}
AOZ1358LI-01 <i>New</i>	5V ECPower 34mΩ Protection Source Switch	3.8 - 5.5	28 on V_{OUT}
AOZ1373DI-01 <i>New</i>	5V ECPower 39mΩ Protection Source Switch	3.4 - 22	28
AOZ1373DI-02 <i>New</i>	5V ECPower 39mΩ Protection Source Switch	3.4 - 22	28
AOZ1375DI-01	20V ECPower 18mΩ Protection Sink or Source Switch	3.4 - 23	28
AOZ1375DI-02	20V ECPower 18mΩ Protection Sink or Source Switch	3.4 - 23	28
AOZ1376DI-01	20V ECPower 20mΩ Protection Sink Switch	3.4 - 22	28
AOZ1376DI-02	20V ECPower 20mΩ Protection Sink Switch	3.4 - 22	28
AOZ1380DI <i>New</i>	20V ECPower 20mΩ Sink and 39mΩ Source Protection Switch	3.4 - 22	28 on V_{BUS}

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
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
3.0	26.0	1.2	0.8	23.0	1500	SOT-23
3.0	26.0	1.8	0.8	23.0	1500	DFN 2x2
4.5	36.0	1.2	0.8	30.0	450	SOT-23
4.5	36.0	0.6	0.8	30.0	1000	SOT-23
4.5	36.0	0.6	0.8	34.0	1000	SOT-23
4.5	36.0	1.2	0.8	30.0	450	DFN 2x2
3.0	36.0	2.5	0.8	30.0	Adjustable	DFN 3x3
3.0	36.0	4.0	0.8	30.0	Adjustable	DFN 3x3

R_{ON} (m Ω)	Current Flow	Fast Role Swap	OVP	Current Limit	RCB	Fault Response	Package
32	Sink	No	5.8 or 24	No	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3
32	Sink	No	5.8 or 24	No	$V_{OUT}>V_{IN}$	Latch Off	DFN 3x3
20	Sink	—	5.8 or 24	—	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3
20	Sink	—	5.8 or 24	—	$V_{OUT}>V_{IN}$	Latch Off	DFN 3x3
38	Source	No	5.8	Adjustable	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3
40	Source	No	5.8	Adjustable	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3
40	Source	No	5.8	Adjustable	$V_{OUT}>V_{IN}$	Latch Off	DFN 3x3
40	Source	No	5.8	Adjustable	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3
40	Source	No	5.8	Adjustable	$V_{OUT}>V_{IN}$	Latch Off	DFN 3x3
32	Source	No	5.8	Adjustable	$V_{OUT}>V_{IN}$	Auto Restart	WLCSP-12 Bumps
32	Source	No	5.8	Adjustable	$V_{OUT}>V_{IN}$	Latch Off	WLCSP-12 Bumps
32	Source	No	5.8	Adjustable	$V_{OUT}>V_{IN}$	Auto Restart	WLCSP-12 Bumps
32	Source	No	5.8	Adjustable	$V_{OUT}>V_{IN}$	Latch Off	WLCSP-12 Bumps
39	Source	Yes	5.8	Adjustable	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3B
39	Source	Yes	5.8	Adjustable	$V_{OUT}>V_{IN}$	Latch Off	DFN 3x3B
39	Source	Yes	5.9	Adjustable	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3B
39	Source	Yes	5.9	Adjustable	$V_{OUT}>V_{IN}$	Latch Off	DFN 3x3B
34	Source	Yes	5.8	Adjustable	$V_{OUT}>V_{IN}$	Auto Restart	WLCSP-12 Bumps
34	Source	Yes	5.8	Adjustable	$V_{OUT}>V_{IN}$	Latch Off	WLCSP-12 Bumps
34	Source	Yes	5.8	Adjustable	$V_{OUT}>V_{IN}$	Auto Restart	WLCSP-12 Bumps
34	Source	Yes	5.9	Adjustable	$V_{OUT}>V_{IN}$	Latch Off	WLCSP-12 Bumps
34	Source	Yes	5.8	Adjustable	$V_{OUT}-V_{IN}>70mV$	Auto Restart	WLCSP-16 Bumps
39	Sink	No	5.8 or 24	No	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3
39	Sink	No	5.8 or 24	No	$V_{OUT}>V_{IN}$	Latch Off	DFN 3x3
18	Source or Sink	No	Adjustable	Adjustable (Source)	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3
18	Source or Sink	No	Adjustable	Adjustable (Source)	$V_{OUT}>V_{IN}$	Latch Off	DFN 3x3
20	Sink	—	Adjustable	—	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3
20	Sink	—	Adjustable	—	$V_{OUT}>V_{IN}$	Latch Off	DFN 3x3
20 (Sink)/39 (Source)	Sink and Source	Yes (Source)	5.8 or 24 (Sink)	Adjustable (Source)	$V_{OUT}>V_{IN}$	Auto Restart	DFN 3x3

DrMOS Power Modules

Part Number		Min Operation V_{IN} (V)	Max Operation V_{IN} (V)	DC Current (A)	PWM Input (V)
AOZ5016QI	<i>New</i>	4.5	25	55	5
AOZ5048QI		4.5	25	35	5
AOZ5049QI-02		4.5	25	35	5
AOZ5116QI		4.5	25	55	5
AOZ5117QI		4.5	25	60	5
AOZ5117QI-01		4.5	25	60	5
AOZ5118QI	<i>New</i>	4.5	25	65	5
AOZ5118QI-01	<i>New</i>	4.5	25	65	5
AOZ5166QI		4.5	16	60	5
AOZ5166QI-01		4.5	16	60	3
AOZ5311NQI		2.5	20	50	5
AOZ5311UQI	<i>New</i>	2.5	20	50	5
AOZ5312NQI	<i>New</i>	2.5	20	60	5
AOZ5312UQI	<i>New</i>	2.5	20	60	5
AOZ5317UQI		2.5	25	60	5
AOZ5332QI		2.5	25	50	5
AOZ5339QI		2.5	25	50	5
AOZ5516QI		4.5	25	55	5
AOZ5517QI	<i>New</i>	4.5	25	60	5
AOZ5636QI		4.5	20	50	5
AOZ5547QI		4.5	25	35	5
AOZ5612BQI	<i>New</i>	4.5	20	60	3
AOZ5613QI	<i>New</i>	4.5	20	60	5
AOZ5613BQI	<i>New</i>	4.5	20	60	3
AOZ5616BQI	<i>New</i>	4.5	25	55	3

Tri-State Control	Enable Control	Thermal Flag	Application	Package
FCCM	FCCM	No	Notebook	QFN 5x5
FCCM	FCCM	No	Ultrabook	QFN 3.5x5
FCCM	FCCM	No	Ultrabook	QFN 3.5x5
SMOD	DISB#	No	Notebook	QFN 5x5
SMOD	DISB#	Yes	Notebook, Workstation	QFN 5x5
SMOD	DISB#	No	Notebook, Workstation	QFN 5x5
SMOD	DISB#	Yes	Notebook, Workstation	QFN 5x5
SMOD	DISB#	No	Notebook, Workstation	QFN 5x5
SMOD	DISB#	Yes	Server	QFN 6x6
SMOD	DISB#	Yes	Server	QFN 6x6
SMOD	DISB#	Yes	Discretes Graphic Card	QFN 5x5
SMOD	DISB#	Yes	Discretes Graphic Card	QFN 5x5
SMOD	DISB#	Yes	Discretes Graphic Card	QFN 5x5
SMOD	DISB#	Yes	Discretes Graphic Card	QFN 5x5
SMOD	DISB#	Yes	Notebook GPU	QFN 5x5
SMOD	DISB#	Yes	Discretes Graphic Card	QFN 5x5
SMOD	DISB#	No	Graphic Card	QFN 5x5
FCCM	FCCM	No	Notebook	QFN 5x5
FCCM	FCCM	No	Notebook, Workstation	QFN 5x5
SMOD	DISB#	Yes	Gaming Notebook	QFN 5x5
FCCM	FCCM		Ultrabook	QFN 3.5x5
SMOD	DISB#	Yes	Workstation, Game Console	QFN 5x5
SMOD	DISB#	Yes	Workstation, Game Console	QFN 5x5
SMOD	DISB#	Yes	Workstation, Game Console	QFN 5x5
SMOD	DISB#	Yes	Workstation	QFN 5x5

AC-DC Power Solutions

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

Smart Load Switches – EZPower™ Family

Part Number	Description	V _{IN} (V)	Turn On Rise Time (T _r)
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
AOZ1334DI-01	Single Channel Smart Load Switch	0.8 - 5.5	10µs
AOZ1334DI-02	Single Channel Smart Load Switch	0.8 - 5.5	0.5ms
AOZ1336DI	Single Channel Smart Load Switch	0.8 - 5.5	Adjustable

MOSFET (BV_{DSS}) (V)	MOSFET (R_{DS_ON}) (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	9m Ω	145	NA	NA	2.7/3.5	QFN 6x6
100	9m Ω	100	NA	NA	2.7/3.5	QFN 6x6
No	—	—	—	—	—	DFN 9.5x5.5
—	—	350	—	—	9.5/12.0	SOIC-8

Channel	Enable	Current Limit (A)	Fault Latch	R_{DS} (m Ω) (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	10.0	No	5	DFN 3x3
1	CMOS/TTL Compatible	10.0	No	5	DFN 3x3
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
AOZ8360DI-07	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8360DI-12	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8360DI-15	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8360DI-18	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8360DI-20	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8360DI-22	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8360DI-24	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8621UNI-05	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8621UNI-07	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8621UNI-12	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8621UNI-15	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8621UNI-18	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8621UNI-20	High-Power Surge TVS Diode	± 30	± 30	1
AOZ8621UNI-22	High-Power Surge TVS Diode	± 30	± 30	1

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_{RWM} Max (V)	IEC 61000-4-5 (Peak Pluse Current) I_{pp} max. (A)	IEC 61000-4-5 (8/20us) (Peak Pluse Power) P_{pp} 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
7.5	300	4250	2700	DFN 2.0x2.0
12.0	220	4250	1350	DFN 2.0x2.0
15.0	180	4250	1100	DFN 2.0x2.0
18.0	165	4250	950	DFN 2.0x2.0
20.0	135	4250	850	DFN 2.0x2.0
22.0	135	4250	800	DFN 2.0x2.0
24.0	110	4250	730	DFN 2.0x2.0
5.0	380	3800	3000	DFN 2.0x2.0
7.5	320	3800	2100	DFN 2.0x2.0
12.0	190	3800	1100	DFN 2.0x2.0
15.0	140	3800	800	DFN 2.0x2.0
18.0	120	3800	750	DFN 2.0x2.0
20.0	110	3800	660	DFN 2.0x2.0
22.0	100	3800	630	DFN 2.0x2.0

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
AOZ8336DI-03	High-Current Surge TVS	± 30	± 30	1
AOZ8336DI-04	High-Current Surge TVS	± 30	± 30	1
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
3.3	50	100	—	DFN 1.0x0.6
4.8	50	100	—	DFN 1.0x0.6
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
AOZ8654BLT-05	Ultra-Low Capacitance TVS Diode Array	± 30	± 30	4
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 _{RWM} 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
5.5	2.5	AlphaDFN 0.925x0.525
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
AOZ8936DI	7 Channel Combo TVS for USB	± 24	± 30	7
AOZ8937DI	7 Channel Combo TVS for USB	± 12	± 15	7
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
5.0	0.4	DFN 4.1x2.0
5.0	0.3	DFN 4.1x2.0
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 _{DS} (V)	V _{GS} (±V)
AlphaDFN™ 0.97x0.97							
AOC2421	MCSP 0.97x0.97A	Single	P	Yes	No	-8	5
AOC2874	MCSP 0.97x0.97B	Common Drain	N	Yes	No	20	12
AlphaDFN™ 1.2x1.2							
AOCA32116E <i>New</i>	MCSP 1.2x1.2	Common Drain	N	Yes	No	20	12
AlphaDFN™ 1.5x1.5/1.57x1.57							
AOC2804B	MCSP 1.5x1.5	Common Drain	N	Yes	No	20	12
AlphaDFN™ 1.79x1.18							
AOCA24108E	MCSP 1.79x1.18	Common Drain	N	Yes	No	12	8
AlphaDFN™ 1.84x1.96							
AOCA32106E	MCSP 1.84x1.96	Common Drain	N	Yes	No	12	8
AlphaDFN™ 1.9x1.6							
AOCA24106E	MCSP 1.9x1.6	Common Drain	N	Yes	No	12	8
AlphaDFN™ 3.4x1.96							
AOCA36102E	MCSP 3.4x1.96	Common Drain	N	Yes	No	12	8
AlphaDFN™ 3.01x1.52							
AOC3870A	MCSP 3.01x1.52A	Common Drain	N	Yes	No	12	8
AlphaDFN™ 3.05x1.77							
AOC3860A	MCSP 3.05x1.77A	Common Drain	N	Yes	No	12	8
AlphaDFN™ 3.55x1.77							
AOC3862	MCSP 3.55x1.77	Common Drain	N	Yes	No	12	8
AOC3878 ⁽¹⁾	MCSP 3.55x1.77	Common Drain	N	Yes	No	12	8
DFN 1.6x0.6							
AON1605	DFN 1.6x0.6	Single	P	Yes	No	-20	8
AON1606	DFN 1.6x0.6	Single	N	Yes	No	20	8
DFN 1.6x1.6							
AON1634	DFN 1.6x1.6A	Single	N	Yes	No	30	12
DFN 2x2							
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
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

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 _D (A) 25°C	P _D (W) 25°C	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		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	1.7		36⁽²⁾	55⁽²⁾		1.3				5.5			
6	1.3		34 ⁽²⁾	56 ⁽²⁾		1.3				9.5			
14	2.2		7.5	11		1.1				15			
25	2.8		3.4	5.3		1.1				23			
20	2.7		5.6	8.5		1.1				18			
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			
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		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

* 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.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
DFN 2x5							
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
DFN 3x2							
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
DFN 3x3							
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
AON7422G	DFN 3x3	Single	N	Yes	No	30	20
AON7430	DFN 3x3	Single	N	No	No	30	20
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
AON7407	DFN 3x3	Single	P	No	No	-20	8
AONR21117	DFN 3x3	Single	P	No	No	-20	8
AON7404G	DFN 3x3	Single	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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		10V	4.5V	2.5V	1.8V								
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
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
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
-40	29		9.5	12.5	18	-0.9	3495	528	425	44†	11	33	100
-34	43		4.8	7.2		-1.1	6560	770	700	63	19	38	105
20	28		5.3	6.8		1.25	3300	485	370	31	8	17	30

* 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.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
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
AONR32320C	DFN 3x3	Single	N	No	No	30	20
AONR36326C	DFN 3x3	Single	N	No	No	30	20
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
AONU32320	DFN 3x3	Common Drain	N	Yes	No	30	20
DFN 3.3x3.3							
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
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
DFN 3.3x3.3 (XSPairFET™)							
AONE36132	DFN 3.3x3.3	Asymmetric	N	No	No	25	12
AONE36132	DFN 3.3x3.3	Asymmetric	N	No	No	25	12
AONP36336	DFN 3.3x3.3	Asymmetric	N	No	No	30	12
AONP36336	DFN 3.3x3.3	Asymmetric	N	No	No	30	12
DFN 4x3A							
AONL32328	DFN 4x3	Complementary	P	No	No	-30	20
AONL32328	DFN 4x3	Complementary	N	No	No	30	20
DFN 5x6							
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

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		10V	4.5V	2.5V	1.8V								
-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
12	11	21	30			2.3	650	70	50	7	2.5	5	5
12	20.5	9.8	15.9			2.3	540	230	30	4.3	1.7	9.7	11.5
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
15	16.5	13	18.5			2.3	1500	160	130	13	5.5	7	10
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	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
50	33	4.7	5.7			1.9	1330	280	35	8	2	11	19
50	30	5.8	7.3			1.9	940	210	30	6	1.6	10	14
-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

* 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.

Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
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
AON6590A	New	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
AONS21307		DFN 5x6	Single	P	No	No	-30	25
AONS21357		DFN 5x6	Single	N	No	No	-30	25
AONS32100		DFN 5x6	Single	N	No	No	25	20
AONS32302		DFN 5x6	Single	N	No	No	30	20
AONS32304		DFN 5x6	Single	N	No	No	30	20
AONS32306		DFN 5x6	Single	N	No	No	30	20
AONS32310		DFN 5x6	Single	N	No	No	30	20
AONS32314		DFN 5x6	Single	N	No	No	30	20
AONS36312	New	DFN 5x6	Single	N	No	No	30	12
AONS36314		DFN 5x6	Single	N	No	No	30	12
AONS36316		DFN 5x6	Single	N	No	No	30	12
AONS36344		DFN 5x6	Single	N	No	No	30	20
AONS36346		DFN 5x6	Single	N	No	No	30	20
AONS36348		DFN 5x6	Single	N	No	No	30	20
AONS66612		DFN 5x6	Single	N	No	No	60	20
DFN 5x6 (PairFET™)								
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

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
		25°C	25°C	10V	4.5V								
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
-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
400	400	0.73	1.08			1.6	15200	2000	1400	115	115	25	70
220	119	1.35	1.9			2.3	6060	710	550	54	25	16	40
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
400	400	1.05	1.43			1.8	15350	1430	900	110	35	20	65
32	25	8.7	12.3			2.25	1420	150	95	10	4	7.5	9
85	48	2.1	2.6			1.9	2500	530	75	18	4	14	27
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
83	36	3.28	5.15			2.2	1320	350	54	10	3.6	11	17
60	31	5.5	9.5			2.1	800	240	35	5	2	10	13
50	26	7	11.5			2.1	800	240	35	5	2	10	13
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

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

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	
AON6926	DFN 5x6	Asymmetric	N	No	No	30	20	
AON6926	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	
AONY36356	DFN 5x6	Asymmetric	N	No	No	30	12	
AONY36356	DFN 5x6	Asymmetric	N	No	No	30	20	
DFN 5x6E (XSPairFET™)								
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	
SC-70								
AO7401	SC-70-3	Single	P	No	No	-30	12	
AO7405	SC-70-6	Single	P	No	No	-30	12	
AO7407	SC-70-3	Single	P	No	No	-20	8	
AO7408	SC-70-6	Single	N	No	No	20	8	
AO7410	SC-70-3	Single	N	No	No	30	12	
AO7411	SC-70-6	Single	P	No	No	-20	8	
AO7412	SC-70-6	Single	N	No	No	30	12	
AO7414	SC-70-6	Single	N	No	No	20	8	
AO7417	SC-70-6	Single	P	No	No	-20	8	
AO7800	SC-70-6	Dual	N	Yes	No	20	8	
AOSN21319C	New	SC-70-3	Single	P	Yes	No	-30	20
AOSX21319C	New	SC-70-6	Dual	P	Yes	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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		25°C	25°C	10V	4.5V								
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
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
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
-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
-1.2	0.63		135	170	220	-1	560	80	70	8.5 [†]	2.1	37	27
2	0.35		62	75	85	1	260	48	27	2.9 [†]	0.6	14	3.8
1.7	0.35	55	65	85		1.5	235	35	18	4.7	1.6	8.5	2.6
-1.8	0.63		120	150	200	-1	560	80	70	8.5	2.1	37	27
1.7	0.35	55	65	85		1.5	235	35	18	4.7	1.6	8.5	2.6
2	0.35		62	70	85	1	260	48	27	2.9	0.6	14	3.4
-1.9	0.57		80	100	125	-1	560	80	70	8.5	2.1	37	27
0.9	0.3		300	350	450	0.9	101	17	14	1.57	0.36	6.7	1.6
-2.6	1.1		100	150		-2.2	320	40	35	3	1.6	9	13
-2.6	1.1		100	150		-2.2	320	40	35	3	1.6	9	13

* 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.

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
SO-8							
AO4306	SO-8	Single	N	No	No	30	20
AO4402G	SO-8	Single	N	No	No	20	12
AO4406A	SO-8	Single	N	No	No	30	20
AO4492	SO-8	Single	N	No	No	30	20
AO4576	SO-8	Single	N	No	No	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
AO4419	SO-8	Single	P	No	No	-30	20
AO4449	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
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
AO9926C	SO-8	Dual	N	No	No	20	12
AO4801	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

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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								
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
13	3.1	11.5	15.5			2.5	760	125	70	6.6	3	7	8
14	3.1	9.5	14			2.2	770	240	77	7.1	3.1	11	23
20	3.1	5.8	9.8			2.2	1037	441	61	6.8	3.6	12.7	17.2
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
-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
-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
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
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	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 [†]	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

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

Low Voltage MOSFETs (Continued)

Part Number		Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
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
AOSD21311C	New	SO-8	Dual	P	Yes	No	-30	20
AOSD21313C	New	SO-8	Dual	P	Yes	No	-30	20
AOSD32334C		SO-8	Dual	N	Yes	No	30	20
AOSP21307		SO-8	Single	P	No	No	-30	25
AOSP21311C	New	SO-8	Single	P	No	No	-30	20
AOSP21313C	New	SO-8	Single	P	No	No	-30	20
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
AOSP32320C		SO-8	Single	N	No	No	30	20
AOSP36326C		SO-8	Single	N	No	No	30	20
Ultra SO-8								
AOL1404G		Ultra SO-8	Single	N	No	No	20	12
AOUS66923		Ultra SO-8	Single	N	No	No	100	20
SOT-23								
AO3413		SOT-23-3	Single	P	No	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
AO3452		SOT-23-3	Single	N	No	No	30	12
AO3456		SOT-23-3	Single	N	No	No	30	20
AO3457		SOT-23-3	Single	P	No	No	30	20
AO3493		SOT-23-3	Single	P	No	No	-20	8
AO3494		SOT-23-3	Single	N	No	No	20	8
AO3495		SOT-23-3	Single	P	Yes	No	-20	8
AO3499		SOT-23-3	Single	P	Yes	No	-20	12
AOSS21115C	New	SOT-23-3	Single	P	Yes	No	-20	8
AOSS21311C	New	SOT-23-3	Single	P	Yes	No	-30	20
AOSS32136C		SOT-23-3	Single	N	Yes	No	20	12
AOSS32334C		SOT-23-3	Single	N	Yes	No	30	20
AOSS32338C		SOT-23-3	Single	N	Yes	No	30	12
TO-251A								
AOI423		TO-251A	Single	P	No	No	-30	25
AOI21357		TO-251A	Single	P	No	No	-30	25
TO-252								
AOD32334C		TO-252	Single	P	Yes	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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
		25°C	25°C	10V	4.5V								
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
-5	1.7	42	64			-2.2	720	80	70	15	6	10	13
-5.7	1.7	32	55			-2.2	1100	120	105	11	6.5	12	17
7	1.7	20	26			2.3	600	70	60	6	2.5	5	6
-14	3.1	11.5	18.5			-2.3	1995	300	260	17	8.8	13.3	20
-6	2.5	42	64			-2.2	720	80	70	6	3	10	13
-7	2.5	32	55			-2.2	1100	120	105	11	6.5	12	17
-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
8.5	2.5	22	30			2.3	650	70	50	7	2.5	5	5
12	2.5	11	17			2.3	542	233	31	4.3	1.7	9.7	11.5
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
-3	1.4		80	100	130	-1	560	80	70	8.5	2.1	37	27
-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	52	65	85		1.5	235	35	18	5	1.6	8.5	2.6
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
-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
-3.5	1.4	85	102	140		-1.2	325	63	37	3	1.1	11	4.3
-4.5	1.3		40	55	72	-0.95	930	90	80	8.5	2.5	25	37
-4.3	1.3	45	65			-2.2	720	80	70	6	3	10	13
6.5	1.3	20	26			1.25	660	100	80	7	2	8	6
6.2	1.3	20	26			2.3	600	70	60	6	2.5	5	6
4	1.3	50	57	72		1.5	340	30	25	4	1.2	5.5	4
-70	90	8.5				-3.5	2760	550	375	45 [†]	12	15	30
-70	78	8	13			-2.3	2830	430	365	25	12	32	62
12	18	20	26			2.3	600	70	60	55	27	5.5	6

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

Low Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	
TSOP-6								
AO6400	TSOP-6	Single	N	No	No	30	12	
AO6424	TSOP-6	Single	N	No	No	30	20	
AO6424A	TSOP-6	Single	N	No	No	30	20	
AO6432	TSOP-6	Single	N	No	No	30	20	
AO6404	TSOP-6	Single	N	No	No	20	12	
AO6409A	TSOP-6	Single	P	Yes	No	-20	8	
AO6401A	TSOP-6	Single	P	No	No	-30	12	
AO6405	TSOP-6	Single	P	No	No	-30	20	
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	
AOTS21115C	New	TSOP-6	Single	P	Yes	No	-20	8
AOTS21313C	New	TSOP-6	Single	P	Yes	No	-30	20
AOTS21319C	New	TSOP-6	Single	P	Yes	No	-30	20
AOTS32334C		TSOP-6	Single	N	Yes	No	30	20
AOTS32338C		TSOP-6	Dual	N	No	No	30	12
TSSOP-8								
AO8808A	TSSOP-8	Dual	N	Yes	No	20	12	
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	
AOTE21115C	New	TSSOP-8	Dual	P	Yes	No	-20	8
AOTE32136C	TSSOP-8	Common Drain	N	Yes	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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		10V	4.5V	2.5V	1.8V								
6.9	2	28	33	52		1.45	630	75	50	6	1.8	8.5	2.6
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
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	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
3.5	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
-6.6	2.5		40	55	72	-0.95	930	90	80	8.5	2.5	25	37
-7.3	2.7	32	55			-2.2	1100	120	105	11	6.5	12	17
-2.7	1.2	100	150			-2.2	320	40	35	3	1.6	9	13
8	2.5	20	26			2.3	600	70	60	6	2.5	5	6
3.8	1.2	50	57	72		1.5	340	30	25	4	1.2	5.5	4
8	1.4	14	15	20	28	1	1160	232	146	16	3.8	20.2	8
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
-5.1	1.5		40	55	72	-0.95	930	90	80	8.5	2.5	25	37
7	1.5		20	26		1.25	660	100	80	7	2	8	7

* 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.

Medium Voltage MOSFETs

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)	
DFN 2x2								
AON2392	DFN 2x2C	Single	N	No	No	100	20	
AON2290	DFN 2x2B	Single	N	No	No	100	20	
DFN 3x3								
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	
DFN 3.3x3.3								
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	
DFN 5x6 (XSFET™)								
AOE66410	DFN 5x6	Single	N	No	No	40	20	
DFN 5x6								
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	
AON6152A	New	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	

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				VGS(th) (max V)	Ciss (pF)	Coss (pF)	Crss (pF)	Qg (nC)	Qgd (nC)	Trr (ns)	Qrr (nC)
		25°C	25°C	10V	4.5V								
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 [†]	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 [†]	4	32	162
50	46	2.3	3.5			2.4	3350	580	65	18	21.2	16	42
100	147	1.0	1.5			2.5	9000	1600	92	50	11	27.5	105
14	83	170				4.5	1028	167	11	22 [†]	8	158	1000
52	104	16.5	19*			3.4	2388	213	9.5	30.5 [†]	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 [†]	3	30	132
26	35	25	31*			4	1770	165	55	28 [†]	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 [†]	14	32	168
85	208	3.3	4.6*			3.3	4646	632	31	61.5 [†]	9.5	32	174
85	83	4.1	5*			3.2	3930	592	66	58 [†]	14	36	153
85	83	5.6	8*			3.5	2848	392	22.5	36.5 [†]	6	30	126
78	78	7.1	10*			3.3	2162	300	16	28 [†]	4.5	26	118
48	56	6.5	8.5*			2.3	2540	310	18.5	16.5 [†]	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 [†]	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

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

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
AON6884	DFN 5x6	Dual	N	No	No	40	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
AONS66614	DFN 5x6	Single	N	No	No	60	20
AONS66916	DFN 5x6	Single	N	No	No	100	20
AONS66917	DFN 5x6	Single	N	No	No	100	20
AONS66920	DFN 5x6	Single	N	No	No	100	20
AONS66923	DFN 5x6	Single	N	No	No	100	20
AONS62602	DFN 5x6	Single	N	No	No	60	20
AONS62614	DFN 5x6	Single	N	No	No	60	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
DFN 8x6							
AOMU66414Q	DFN 8x6	Dual	N	No	No	40	20
AOMU66414Q	DFN 8x6	Dual	N	No	No	40	20
SO-8							
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

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		25°C	25°C	10V	4.5V								
34	21	11.3	13.8			2.7	1500	215	135	13.6	6.4	13	35
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
85	78	2.9	4.1			2.4	3310	745	30	25	8.5	22	73
100	215	3.6				3.6	5325	1240	16	67 [†]	9	42	215
100	215	3.5	5			2.8	5940	1475	24	35	11	43	208
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
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
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
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

* 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.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
Ultra SO-8							
AOL1454G	Ultra SO-8	Single	N	Yes	No	40	20
AOL1482	Ultra SO-8	Single	N	Yes	No	100	20
AOUS66414	Ultra SO-8	Single	N	No	No	40	20
AOUS66416	Ultra SO-8	Single	N	No	No	40	20
AOUS66920	Ultra SO-8	Single	N	No	No	100	20
AOUS66923	Ultra SO-8	Single	N	Yes	No	100	20
SOT-223							
AOH3254	SOT-223	Single	N	No	No	150	20
SOT-23-3							
AOSS21319C	<i>New</i>	SOT-23-3	Single	P		-30	20
AOSS62934	SOT-23-3	Single	N	No	No	100	20
TO-220							
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
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
TO-220F							
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

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		25°C	25°C	10V	4.5V								
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
92	92	2.2	3.2			2.3	4350	730	40	24	3.6	18	45
69	73.5	3.3	5.0			2.5	2575	440	25	13.5	2	14	30
69	86	8.2	10.7			2.5	2500	485	13	16.7	5	34	170
58	73	11	15			2.6	1725	360	7.5	12.5	3.5	41	156
5	4.1	63	77			2.7	675	78	4	5.5	2.5	37	210
-2.8	1.3	100	150			-2.2	320	40	35	3	1.6	9	13
2.0	1.4	140	180			2.7	250	19	2.5	1.8	0.8	12	27
8	132	800				4.5	630	73	5.7	13.1 [†]	4.8	195	1900
11	184	590				4.5	925	100	6.4	17 [†]	5.7	235	2400
11.5	132	420				4.5	632	90	7	12.8 [†]	4.3	170	1300
20	208	170				4.5	1028	167	11	20 [†]	8	179	1600
152	375	6.5	7.6*			3.5	6460	586	22	97 [†]	17	90	1090
106	277	11				5.1	3010	345	14	43 [†]	10	75	880
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

* 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.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
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
AOTF66613L	TO-220F	Single	N	No	No	60	20
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
TO-247							
AOK40N30	TO-247	Single	N	No	No	300	30
AOK60N30L	TO-247	Single	N	No	No	300	30
AOK66613	TO-247	Single	N	No	No	60	20
TO-251A							
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
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
TO-251B							
AOY423	TO-251B	Single	P	No	No	30	20
AOY2610E	TO-251B	Single	N	No	No	60	20
AOY66920	TO-251B	Single	N	No	No	100	20
TO-252							
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
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

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		25°C	25°C	10V	4.5V								
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
90	34.5	2.5				3.5	5300	1500	50	78†	20	30	135
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
120	312	2.5				3.5	5300	1500	50	78†	20	30	135
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
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
-70	90	8.5				-3.5	2760	550	375	45†	12	15	30
46	59.5	9.5	13.3			2.4	1100	300	28	7	3.5	19	65
70	89	8.2	10.7			2.5	2500	485	13	16.7	5	34	170
-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
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

* 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.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
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
AOD66616	TO-252	Single	N	No	No	60	20
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
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
TO-262							
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

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		25°C	25°C	10V	4.5V								
-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
70	113	3.7				3.4	2870	940	38	42.5 [†]	10	26	87
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
-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 [†]	10	75	880
105	300	4.1	4.9*			3.4	6775	557	32	90 [†]	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 [†]	11.5	38	230

* 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.

Medium Voltage MOSFETs (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (±V)
AOW482	TO-262	Single	N	No	No	80	25
AOW66613	TO-262	Single	N	No	No	60	20
AOW66412	TO-262	Single	N	No	No	40	20
AOW66616	TO-262	Single	N	No	No	60	20
TO-262F							
AOWF412	TO-262F	Single	N	No	No	100	25
TO-263							
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
AOB66613L	TO-263	Single	N	No	No	60	20
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
TOLLA							
AOTL66401	TOLLA	Single	N	No	No	40	20
AOTL66608	TOLLA	Single	N	No	No	60	20
AOTL66610	TOLLA	Single	N	No	No	60	20
AOTL66912	TOLLA	Single	N	No	No	100	20
TSOP-6							
AO6420	TSOP-6	Single	N	No	No	60	20
AOTS21311C	<i>New</i> TSOP-6	Single	P	Yes		-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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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	333	7.2	9*			3.7	4054	458	160	66.8 [†]	20.2	26	108
120	260	2.5				3.5	5300	1500	50	78 [†]	20	30	135
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 [†]	17	90	1090
106	277	10.7				5.1	3010	347	14	43 [†]	10	75	880
51	150	25				4	1770	165	55	28 [†]	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 [†]	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 [†]	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 [†]	30	53	438
100	268	10.2				4	4700	400	180	114 [†]	18	53	143
120	260	2.5				3.5	5300	1500	50	78 [†]	20	30	135
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
400	300	0.7	0.95			2.3	19180	3110	180	100	22	35	160
400	500	0.85				3.3	14200	4300	155	205 [†]	50	50	265
350	272	1.2				3.6	7625	2145	68	103 [†]	23	37	172
380	500	1.7				3.5	12500	3190	55	155 [†]	31	55	335
4.2	2	60	75			3	450	60	25	4.3	2.2	25.1	28.7
-5.9	2.5	45	65			-2.2	720	80	70	6.5	2.5	10	13

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

α MOS5™ High Voltage Super Junction MOSFETs

Part Number	V_{DS} (V)	$R_{DS(ON)}$ (m Ω max) at $V_{GS} = 10V$	Package	Configuration	Polarity	ESD Diode	Schottky Diode
$V_{DS} = 600V$							
AOB095A60L	600	95	TO-220	Single	N	No	No
AOK095A60	600	95	TO-247	Single	N	No	No
AOT095A60L	600	95	TO-220	Single	N	No	No
AOTF095A60L	600	95	TO-220	Single	N	No	No
AOWF095A60	New	600	TO-262F	Single	N	No	No
AOB125A60L	New	600	TO-263	Single	N	No	No
AOK125A60	New	600	TO-247	Single	N	No	No
AOT125A60L	New	600	TO-263	Single	N	No	No
AOTF125A60L	New	600	TO-220F	Single	N	No	No
AOW125A60	New	600	TO-262	Single	N	No	No
AOB160A60L	600	160	TO-263	Single	N	No	No
AOK160A60	600	160	TO-247	Single	N	No	No
AOT160A60L	600	160	TO-220	Single	N	No	No
AOTF160A60L	600	160	TO-220F	Single	N	No	No
AOB190A60CL	600	190	TO-263	Single	N	No	No
AOB190A60L	600	190	TO-263	Single	N	No	No
AOT190A60CL	600	190	TO-220	Single	N	No	No
AOT190A60L	600	190	TO-220	Single	N	No	No
AOTF190A60CL	600	190	TO-220F	Single	N	No	No
AOTF190A60L	600	190	TO-220F	Single	N	No	No
AOWF160A60	600	190	TO-262F	Single	N	No	No
AOWF190A60C	600	190	TO-262F	Single	N	No	No
AOWF190A60	600	190	TO-262F	Single	N	No	No
AOB280A60L	600	280	TO-263	Single	N	No	No
AOD280A60	600	280	TO-252	Single	N	No	No
AOT280A60L	600	280	TO-220	Single	N	No	No
AOTF280A60L	600	280	TO-220F	Single	N	No	No
AOWF280A60	600	280	TO-262F	Single	N	No	No
AOB380A60CL	600	380	TO-263	Single	N	No	No
AOD380A60C	600	380	TO-252	Single	N	No	No
AOD380A60	600	380	TO-252	Single	N	No	No
AOI380A60C	600	380	TO-251A	Single	N	No	No
AOT380A60CL	600	380	TO-220	Single	N	No	No
AOT380A60L	600	380	TO-220	Single	N	No	No
AOTF380A60CL	600	380	TO-220F	Single	N	No	No
AOTF380A60L	600	380	TO-220F	Single	N	No	No
AOWF380A60C	600	380	TO-262F	Single	N	No	No
AOD600A60	600	600	TO-252	Single	N	No	No
AOI600A60	600	600	TO-251A	Single	N	No	No
AOTF600A60L	600	600	TO-220F	Single	N	No	No
AOWF600A60	600	600	TO-262F	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} ($\pm V$)	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	38	34.5	—	4010	105	1.2	78	24	444	11500
20	28	357	4.5	2993	85	0.8	39	9	375	8000
20	28	367	4.5	2993	85	0.8	39	9	375	8000
20	28	357	4.5	2993	85	0.8	39	9	375	8000
20	28	36	4.5	2993	85	0.8	39	9	375	8000
20	28	312.5	4.5	2993	85	0.8	39	9	375	8000
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 $V_{GS} = 4.5V$.

α MOS5™ High Voltage Super Junction MOSFETs

Part Number		V _{DS} (V)	R _{DS(ON)} (mΩ max) at V _{GS} = 10V	Package	Configuration	Polarity	ESD Diode	Schottky Diode
V_{DS} = 700V								
AOB360A70L	<i>New</i>	700	360	TO-263	Single	N	No	No
AOD360A70		700	360	TO-252	Single	N	No	No
AOI360A70		700	360	TO-251A	Single	N	No	No
AOT360A70L	<i>New</i>	700	360	TO-220	Single	N	No	No
AOTF360A70L		700	360	TO-220F	Single	N	No	No
AOWF360A70	<i>New</i>	700	360	TO-262F	Single	N	No	No
AOB600A70L		700	600	TO-263	Single	N	No	No
AOB600A70FL		700	600	TO-263	Single	N	No	No
AOD600A70		700	600	TO-252	Single	N	No	No
AOD600A70R		700	600	TO-252	Single	N	No	No
AOI600A70		700	600	TO-251A	Single	N	No	No
AOI600A70R		700	600	TO-252	Single	N	No	No
AOT600A70L		700	600	TO-220	Single	N	No	No
AOT600A70FL	<i>New</i>	700	600	TO-220	Single	N	No	No
AOTF600A70FL		700	600	TO-220F	Single	N	No	No
AOWF600A70		700	600	TO-220F	Single	N	No	No
AOWF600A70F		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} ($\pm V$)	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	12	156	—	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	138	—	1360	34	1.7	22.5	6.3	310	4800
20	12	156	—	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	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	104	—	900	23	1.4	14.5	2.6	260	3500
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 $V_{GS} = 4.5V$.

α MOS1 High Voltage MOSFETs⁽¹⁾

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (\pm V)
DFN 8x8							
AOV11S60	DFN8x8	Single	N	No	No	600	30
AOV15S60	DFN8x8	Single	N	No	No	600	30
AOV20S60	DFN8x8	Single	N	No	No	600	30
SOT-23A							
AO3160E	SOT-23A-3	Single	N	Yes	No	600	20
TO-220							
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
TO-220F							
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
TO-247							
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
TO-251							
AOU4S60	TO-251	Single	N	No	No	600	30
TO-251A							
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

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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								
8	156	500			4.1	545	37.3	1.42	11 [†]	3.8	250	3300	
12	208	360			3.8	717	58	1.3	15.6 [†]	6	282	4500	
18	276	250			4.1	1038	68	2.1	20 [†]	7.6	350	5700	
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 [†]	6	282	4500	
4	83	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
7	104	600			3.9	372	28	1.2	8.2 [†]	2.8	198	2400	
11	198	399			4	646	42	1.1	13.2 [†]	4.3	278	4200	
25	357	190			4	1278	87	1.4	26.4 [†]	9.5	408	8270	
29	50	150			3.9	1312	88	2.5	26.6 [†]	9.2	387	7300	
11	50	650			4.5	1656	146	11.2	30.6 [†]	9.6	500	5900	
15	27.8	290			3.8	717	58	1.3	15.6 [†]	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 [†]	11.9	473	10500	
39	37.9	99			3.8	2154	135	2.7	40 [†]	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 [†]	1.8	177	1500	
7	34	600			3.9	372	28	1.2	8.2 [†]	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 [†]	4.3	278	4200	
15	50	290			4	841	58	1.1	17.2 [†]	5.3	320	5500	
25	50	190			4	1278	87	1.4	26.4 [†]	9.5	408	8270	
7	25	650			4	434	30	17.5	9.2 [†]	2.7	224	2800	
29	357	150			3.9	1312	88	2.5	26.6 [†]	9.2	387	7300	
53	520	70			3.8	3034	222	3	59 [†]	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 [†]	1.8	177	1500	
11	208	399			4.1	545	37.3	1.42	11 [†]	3.8	250	3300	
4	56.8	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
7	89	650			4	434	30	17.5	9.2 [†]	2.7	224	2800	

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

α MOS1 High Voltage MOSFETs⁽¹⁾ (Continued)

Part Number	Package	Configuration	Polarity	ESD Diode	Schottky Diode	V _{DS} (V)	V _{GS} (\pm V)
TO-252							
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
TO-262							
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
TO-262F							
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
TO-263							
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

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 _D (A)	P _D (W)	R _{DS(ON)} (mΩ max) at V _{GS} =				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)
		10V	4.5V	2.5V	1.8V								
11	208	399			4.1	545	37.3	1.42	11 [†]	3.8	250	3300	
4	56.8	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
7	83	600			3.9	372	28	1.2	8.2 [†]	2.8	198	2400	
7	89	650			4	434	30	17.5	9.2 [†]	2.7	224	2800	
29	357	150			3.9	1312	88	2.5	26.6 [†]	9.2	387	7300	
11	178	399			4.1	545	37.3	1.42	11 [†]	3.8	250	3300	
15	208	290			3.8	717	58	1.3	15.6 [†]	6	282	4500	
20	266	199			4.1	1038	68	2.1	19.8 [†]	7.6	350	5700	
4	83	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
7	104	600			3.9	372	28	1.2	8.2 [†]	2.8	198	2400	
11	198	399			4	646	42	1.1	13.2 [†]	4.3	278	4200	
15	208	290			4	841	58	1.1	17.2 [†]	5.6	320	5500	
25	357	190			4	1278	87	1.4	26.4 [†]	9.5	408	8270	
7	104	650			4	434	30	1	9.2 [†]	2.7	224	2800	
11	28	399			4.1	545	37.3	1.42	11 [†]	3.8	250	3300	
15	27.8	290			3.8	717	58	1.3	15.6 [†]	6	282	4500	
20	28	199			4.1	1038	68	2.1	19.8 [†]	7.6	350	5700	
4	83	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
7	25	600			3.9	372	28	1.2	8.2 [†]	2.8	198	2400	
11	28	399			4	646	42	1.1	13.2 [†]	4.3	278	4200	
15	28	290			4	841	58	1.1	17.2 [†]	5.3	320	5500	
25	28	190			4	1278	87	1.4	26.4 [†]	9.5	408	8270	
7	25	650			4	434	30	1	9.2 [†]	2.7	224	2800	
27	357	160			4	1294	80	2.3	26 [†]	8.8	440	7500	
37	417	109			3.8	2154	135	2.7	40 [†]	11.9	473	10500	
4	83	900			4.1	263	21	0.75	6 [†]	1.8	177	1500	
7	104	600			3.9	372	28	1.2	8.2 [†]	2.8	198	2400	
11	198	399			4	646	42	1.1	13.2 [†]	4.3	278	4200	
15	208	290			4	841	58	1.1	17.2 [†]	5.3	320	5500	
25	357	190			4	1278	87	1.4	26.4 [†]	9.5	408	8270	
7	104	650			4	434	30	17.5	9.2 [†]	2.7	224	2800	

* 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.

Intelligent Power Modules (IPMs)

Part Number		Package	Description	Input Logic
IPM-5 / IPM-5A				
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
AIP5D10K060Q1	<i>New</i>	IPM-5	3-Phase IGBT IPM	Active High
AIP5D10K060Q1S	<i>New</i>	IPM-5A	3-Phase IGBT IPM	Active High
AIP5D05K060Q4	<i>New</i>	IPM-5	3-Phase ESD IGBT IPM	Active High
AIP5D05K060Q4S	<i>New</i>	IPM-5A	3-Phase ESD IGBT IPM	Active High
AIP5D10K060Q4	<i>New</i>	IPM-5	3-Phase ESD IGBT IPM	Active High
AIP5D10K060Q4S	<i>New</i>	IPM-5A	3-Phase ESD IGBT IPM	Active High
AIP5D15K060Q4	<i>New</i>	IPM-5	3-Phase ESD IGBT IPM	Active High
AIP5D15K060Q4S	<i>New</i>	IPM-5A	3-Phase ESD IGBT IPM	Active High

6-Channel High Voltage ICs (HVICs)

Part Number	Package	Input Logic	Output Current	
			(mA) I_{O+}	(mA) I_{O-}
SOP-28				
AGD8136A	SOP-28L	Active Low	200	350
AGD8156A	SOP-28L	Active High	200	350
AGD8236A	SOP-28L	Active Low	200	350
AGD8256A	SOP-28L	Active High	200	350
AGD8252B1	SOP-8L	Active High	200	350
AGD8252B2	SOP-8L	Active High	200	350

Insulated-Gate Bipolar Transistors (IGBTs) – Single

Part Number	Package	Configuration	V_{CE} (max) (V)
TO-247			
AOKS30B60D1	TO-247	IGBT	600
AOKS40B65H2AL	TO-247	IGBT	650
AOKS40B60D1	TO-247	IGBT	600

Rated Voltage (V)	R _{DS(ON)} Max (Ω)	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
600	—	10	Separated	Normal
600	—	10	Separated	Short
600	—	5	Separated	Normal
600	—	5	Separated	Short
600	—	10	Separated	Normal
600	—	10	Separated	Short
600	—	15	Separated	Normal
600	—	15	Separated	Short

V _{CC} Set	UVLO Typ. (V) Reset	V _{BD} 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 _C (max) (A)		V _{CE(sat)} (typ) (V)	E _{ON} (typ) (mJ)	E _{OFF} (typ) (mJ)	Qg (typ) (nC)
25°C	100°C				
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

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

Part Number	Package	Configuration	V _{CE} (max) (V)	I _C (max) (A)	
				25°C	100°C
TO-220					
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
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
AOTF15B65MQ1	TO-220F	IGBT with Anti-Parallel Diode	650	30	15
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
AOK40B120N1	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

$V_{CE(sat)}$ (typ) (V)	E_{ON} (typ) (mJ)	E_{OFF} (typ) (mJ)	Q_g (typ) (nC)	V_F (typ) (V)	Q_{rr} (typ) (μ C)	I_{rm} (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
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
1.7	0.29	0.2	32	1.65	0.24	3.9
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
1.87	3.4	1.4	100	1.53	3.0	18.5
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

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

Part Number	Package	Configuration	V _{CE} (max) (V)	I _C (max) (A)	
				25°C	100°C
TO-247					
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
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	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	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) (μ C)	I_{rm} (typ) (A)
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
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
2.15	0.09	0.06	8.8	2.06	0.11	2.46
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
1.8	0.16	0.11	22	1.52	0.2	3.49
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)



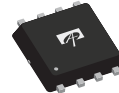
DFN (2x5)



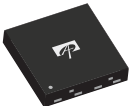
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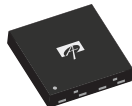
(DFN 3x2)



DFN 3x3



DFN (3.3x1.3)



DFN (3.3x3.3)



DFN (3.5x1.2)
DFN (3.5x5.2)



DFN (3.5x2.5)



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



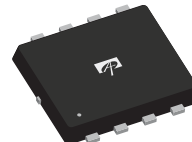
DFN (4x3)



DFN (4x4)



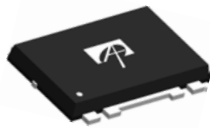
DFN (5x4)



DFN (5x6)



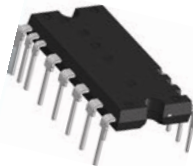
DFN (5x6)



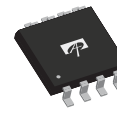
DFN (8x6)



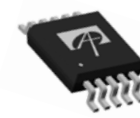
DFN (8x8)



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.



QFN (1.8x2.6)



QFN (2.1x1.6)



QFN (3x3)



QFN (3.5x4.5)
QFN (3.5x5)



QFN (4x4)



QFN (5x5)



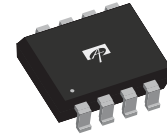
QFN (6x6)



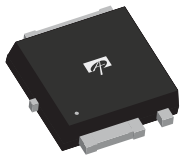
SC-70 (2.1x1.3)



SC-89 (1.6x1.2)



SO-7 (4.9x3.9)
SO-8 (4.9x6)
SO-8 Exposed Pad



Ultra SO-8 (5.11x5.0)



SO-13 (9.8x3.9)
SO-16 (10x6.2)
SO-20 (12.8x10.6)



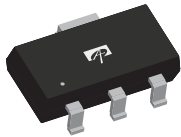
SOP-28 (18x7.5)



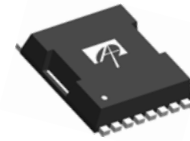
SOT-23 (2.9x1.6)
SOT23A (2.9x1.3)



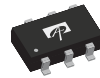
SOT-143 (2.8x1.2)



SOT-223 (6.5x3.4)



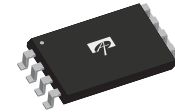
TOLLA (9.8x11.68)



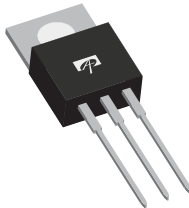
TSOP-6 (2.9x1.6)



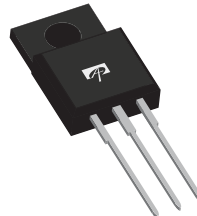
TSOT23-6 (2.9x1.5)



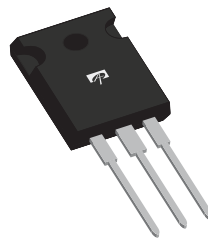
TSSOP-8 (3x4.4)



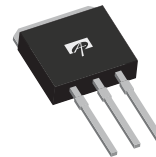
TO-220 (10.03x15.44)
(28.26 w/leads)



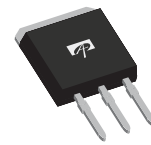
TO-220F (10.16x15.87)
(28.86 w/leads)



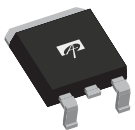
TO-247 (15.8x21)
(40.92 w/leads)



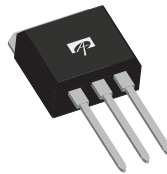
TO-251 (6.5x5.55)
(14.75 w/leads)



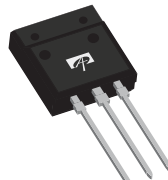
TO-251A/B (6.6x6.1)
(9.73 w/leads for A)
(10.48 w/leads for B)



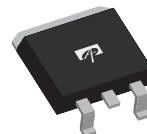
DPAK (TO-252)
6.6x6.1
(10.03 w/leads)



I²PAK (TO-262)
10.15x8.78
(22.45 w/leads)



I²PAK (TO-262F)
10.15x8.78
(22.45 w/leads)



D²PAK (TO-263)
9.14x10.03
(15.24 w/leads)

NOTE: Images are not to scale

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