



ALPHA & OMEGA
SEMICONDUCTOR



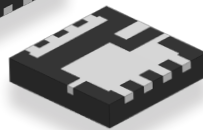
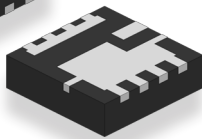
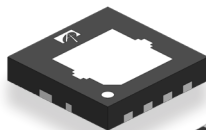
Power MOSFETs for 48V Architecture in AI Servers

- AlphaSGT™ MOSFET Technology
- Double-Sided Cooling for Optimal Heat Transfer
- $T_J=175^{\circ}\text{C}$ rated

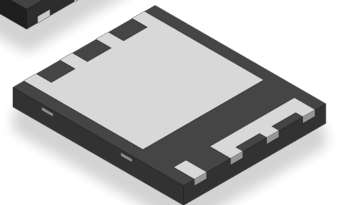
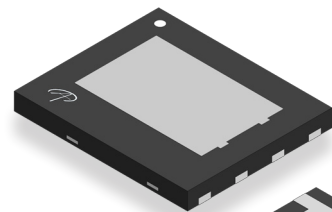
DFN3.3x3.3B



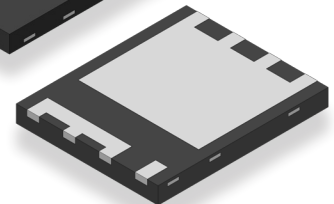
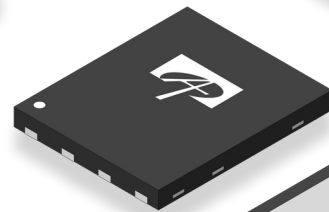
DFN3.3x3.3A



DFN5x6



DFN5x6C



MOSFETs



Features

- AlphaSGT™ Technology
- Low Gate Charge
- $T_J=175^{\circ}\text{C}$ rated
- Double-Sided Cooling Packaging

Applications

- DC/DC Brick Modules
- AI Server
- Telecom

Product Selection Table

Part Number	V_{DS} (V)	V_{GS} ($\pm V$)	$T_J\text{-max}$ ($^{\circ}\text{C}$)	$R_{\theta JC}$ (max) ($^{\circ}\text{C/W}$)		$R_{DS(ON)}$ (m Ω max) @ $V_{GS}=10\text{V}$	$R_{DS(ON)}$ (m Ω max) @ $V_{GS}=4.5\text{V}$	Package
				Top	Bottom			
AONC40202	25	12	175	0.9	1.1	0.63	0.8	DFN3.3x3.3A
AONK40202	25	12	175	N/A	1.1	0.69	0.85	DFN3.3x3.3B
AONK40206	25	16	175	N/A	1.1	0.69	N/A	DFN3.3x3.3B
AONC68410	40	16	175	0.9	1.1	1.2	2.4	DFN3.3x3.3A
AONK68410*	40	16	175	N/A	1.1	1.2	2.4	DFN3.3x3.3B
AONC68411*	40	20	175	0.9	1.1	1.3	N/A	DFN3.3x3.3A
AONA66642	60	20	175	0.5	0.55	1.35	N/A	DFN5x6
AONC68816	80	20	175	0.9	1.1	4.7	5.8	DFN3.3x3.3A
AONA68815	80	20	175	0.5	0.55	2.4	N/A	DFN5x6
AONS68805	80	20	175	N/A	0.3	1.55	N/A	DFN5x6C

* = Available Q3'26

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Alpha and Omega Semiconductor Limited (AOS) is a designer, developer, and global supplier of a broad range of discrete power devices, wide bandgap power devices, power management ICs, and modules, including a wide portfolio of Power MOSFET, SiC, GaN, IGBT, IPM, TVS, HV Gate Drivers, Power IC, and Digital Power products. AOS' portfolio of products targets high-volume applications, including personal computers, graphics cards, data centers, AI servers, smartphones, consumer and industrial motor controls, TVs, lighting, automotive electronics, and power supply units for various equipment.



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