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Alpha & Omega Semiconductor Extends High Voltage MOSFET Offering with 11 New Products

New 500V MOSFETs Feature High Robustness and Low Switching Losses

SUNNYVALE, Calif, January 14, 2009 – Alpha & Omega Semiconductor, Inc. (AOS) today announced the release of eleven 500V-rated MOSFETs. The announcement represents a significant extension to AOS' growing portfolio of High Voltage MOSFETs. The new 500V devices can be utilized in a wide range of AC-DC power supplies and adapters used for desktop and notebook PCs, LCD TVs and monitors and fluorescent lighting applications.

The new MOSFETs allow high efficiency power conversion with reduced switching losses by offering an optimized combination of low $R_{DS(ON)}$ and C_{RSS} . A wide range of applications can be supported with current ratings from 3A, in the form of AOD3N50, to 14A in the forms of AOT14N50 and AOTF14N50.

In particular, these 500V MOSFETs are commonly employed in active power factor correction (PFC) circuits. Since PFC is a functional requirement for 65W and above rated power supplies that connect to the power grid, it is critical that appropriate MOSFETs are used to insure that overall efficiency targets can be met.

“Today’s announcement is part of a comprehensive product roll-out that will allow AOS to offer a complete range of MOSFETs tailored for AC-DC power conversion applications,” said David Grey, Marketing Director for AOS’ MOSFET products.

“There is growing demand for the new Bronze, Silver and Gold 80 Plus certifications for higher efficiency power supplies. By developing high performance high voltage MOSFETs, in conjunction with lower voltage synchronous rectifiers, AOS will be able to provide power supply designers with advanced total MOSFET solutions,” said Grey.

Technical Highlights

The high voltage MOSFETs were developed to reduce switching losses through lowering the C_{RSS} . In addition, robustness was “designed in” with high avalanche energy capability that is also guaranteed through 100% final testing.

The devices are available in three industry-standard packages: DPAK, TO-220 and the electrically isolated TO-220F.

Pricing and Availability

The high voltage MOSFET family is available immediately in production quantities. The table below shows brief specifications and pricing.

Part No	Package	V _{DS} (V)	R _{DS(ON)} (Ω max)	Crss (pF typ)	I _{DS} (A)	Unit Price (1K+)
AOD3N50	TO-252	500	3	2.6	3	\$0.4
AOT3N50	TO-220					\$0.49
AOTF3N50	TO-220F					\$0.51
AOT5N50	TO-220	500	1.5	4.9	5	\$0.56
AOTF5N50	TO-220F					\$0.58
AOT8N50	TO-220	500	0.85	7.8	8	\$0.74
AOTF8N50	TO-220F					\$0.76
AOT12N50	TO-220	500	0.52	12.6	12	\$0.91
AOTF12N50	TO-220F					\$0.93
AOT14N50	TO-220	500	0.38	16	14	\$1.15
AOTF14N50	TO-220F					\$1.17

About AOS

Alpha & Omega Semiconductor, Inc. is a fabless semiconductor company that develops leading edge analog power management solutions. AOS offers a wide portfolio of power MOSFET, Power IC and Transient Voltage Suppressor products that incorporate advances in device design, silicon, and packaging technologies. AOS' products meet the ever increasing performance and power efficiency requirements in high volume consumer applications such as portable and desktop computers, digital cameras, cell phones, and LCD panels. AOS has offices worldwide including the United States, China, Hong Kong, Taiwan and South Korea. For more information, please visit www.aosmd.com

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