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Alpha and Omega Semiconductor Releases Robust 600V AlphaMOS-II MOSFET Family

Ideal solutions for high-voltage applications where reliability and performance are critical

SUNNYVALE, Calif., Feb. 15, 2013 – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors and power ICs, today introduced the [AOTF11C60](#) and [AOTF20C60](#), 600V MOSFETs with AlphaMOS™ II technology. The AlphaMOS II (a patent pending proprietary structure and process) combines planar-like robustness and controlled switching characteristics with the low on-resistance performance of super-junction type devices. The AOTF11C60 and AOTF20C60 are ideally suited for high-voltage applications where reliability and performance are critical. Such applications include server, telecom and networking power supplies, uninterruptable power supplies, solar inverters, industrial motor control systems, and LED lighting.

AOS's new AlphaMOS II technology offers a simplified manufacturing process without compromising the core performance of the MOSFET. The AOTF11C60 and AOTF20C60 offer significant improvement in UIS capability over super-junction. Additionally the new family has been optimized for low noise operation and high efficiency by fine tuning the switching parameters. Their low $R_{DS(ON)}$, C_{iss} and C_{rss} , make the new MOSFETs perfectly suited for designs that require high efficiency, robustness and reliability.

“As efficiency and reliability becomes more and more critical, power designers need high voltage MOSFETs which can withstand reverse recovery current spikes and can also reduce switching and conduction losses. With their unique structure, the new AlphaMOS II products help designers achieve all that in a more robust solution.” said Yalcin Bulut, Vice President of Discrete Product Lines at AOS.

AOTF11C60 Technical Highlights

- 600V N-channel MOSFET
- $R_{DS(ON)} < 0.4$ Ohms max at $V_{GS} = 10V$
- $C_{OSS} = 108$ pF typ
- $Q_g (10V) = 30$ nC typ

AOTF20C60 Technical Highlights

- 600V N-channel MOSFET
- $R_{DS(ON)} < 0.25$ Ohms max at $V_{GS} = 10V$
- $C_{OSS} = 190$ pF typ
- $Q_g (10V) = 52$ nC typ

Pricing and Availability

The AOTF11C60 and AOTF20C60 100% Rg and UIS tested and are housed in Halogen Free RoHS compliant TO-220F packages. The devices are immediately available in production quantities with a lead-time of 12 weeks. The unit price for 10,000 pieces is \$0.925 and \$1.54, respectively.

About AOS

Alpha and Omega Semiconductor Limited, or [AOS](http://www.aosmd.com), is a designer, developer and global supplier of a broad range of power semiconductors, including a wide portfolio of [Power MOSFET](#), [IGBT](#) and [Power IC](#) products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry, which enables us to introduce innovative products to address the increasingly complex power requirements of advanced electronics. AOS differentiates itself by integrating its Discrete and IC semiconductor process technology, product design, and advanced packaging know-how to develop high performance power management solutions. AOS's portfolio of products targets high-volume applications, including 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. For more information, please visit www.aosmd.com.

Forward Looking Statements

This press release contains forward-looking statements that are based on current expectations, estimates, forecasts and projections of future performance based on management's judgment, beliefs, current trends and anticipated product performance. These forward-looking statements include, without limitation, references to the efficiency and capability of new products, and the potential to expand into new markets. Forward looking statements involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. These factors include, but are not limited to, the actual product performance in volume production, the quality and reliability of the product, our ability to achieve design wins, the general business and economic conditions, the state of the semiconductor industry, and other risks as described in the Company's annual report and other filings with the U.S. Securities and Exchange Commission. Although the Company believes that the expectations reflected in the forward looking statements are reasonable, it cannot guarantee future results, level of activity, performance, or achievements. You should not place undue reliance on these forward-looking statements. All information provided in this press release is as of today's date, unless otherwise stated, and AOS undertakes no duty to update such information, except as required under applicable law.

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