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Alpha and Omega Semiconductor's New MOSFET Solutions Bring Major Performance Improvements to Power Critical Designs

*New Breakthroughs in Figure-of-Merit Benchmarks Achieved by
Combining Extremely Low On-resistance and Gate Charge*

SUNNYVALE, Calif., March 8, 2011 – [Alpha and Omega Semiconductor Limited](#) ("AOS") (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors, introduced today at APEC 2011 two new power MOSFETS that redefine performance standards in a wide array of consumer and industrial applications.

[AOS](#) is offering two new low-voltage devices optimized for use on the secondary side of high efficiency DC-DC converters. By combining extremely low on-resistance with a very low gate charge, the 40V [AON6240](#) and 60V [AOT260L](#) bring high efficiency to a wide range of consumer, telecom, industrial and LED backlighting applications. Both devices feature a soft recovery body diode to lower switching losses and hence lower power consumption for energy-saving green solutions.

“The lower your conduction and switching losses, the higher your efficiency,” said Yalcin Bulut, Vice President of Low- and Medium-Voltage MOSFETs for AOS. “By radically changing our device structure and enhancing our process, we have dramatically improved $R_{DS(ON)}$ and Q_g and, in the process, redefined the traditional figure-of-merit (FOM) for these applications.”

Technical Highlights

AON6240

- 40V N-channel MOSFET in DFN 5x6 package
- $R_{DS(ON)}$ at $V_{GS} = 10V < 1.6 \text{ m}\Omega$
- $R_{DS(ON)}$ at $V_{GS} = 4.5V < 2.4 \text{ m}\Omega$
- $C_{RSS} = 176 \text{ pF max}$
- $Q_g (10V) = 73 \text{ nC typ}$
- FOM 70% better than previous generation

AOT260L

- 60V N-channel MOSFET in TO-220 package
- Also available in the D²PAK package as AOB260L
- $R_{DS(ON)}$ at $V_{GS} = 10V < 2.5 \text{ m}\Omega$
- $C_{RSS} = 68 \text{ pF max}$
- $Q_g (10V) = 150 \text{ nC}$
- FOM 69% better than previous generation

Both parts are Halogen-free and 100% UIS and Rg tested.

Pricing and Availability

The AON6240 and AOT260L are immediately available in production quantities. The unit prices for 10,000 pieces are as follows:

AON6240:	\$0.925
AOT260L:	\$1.8

About AOS

Alpha and Omega Semiconductor Limited, or AOS, is a designer, developer and global supplier of a broad range of power semiconductors, including a wide portfolio of [Power MOSFET](#) and [Power IC](#) products. AOS seeks to differentiate itself by integrating its expertise in device physics, process technology, design and advanced packaging to optimize product performance and cost, and its product portfolio is designed to meet the ever increasing power efficiency requirements in high volume applications, including portable computers, flat panel TVs, battery packs, smart phones, portable media players, UPS, motor control and power supplies. 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. 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 semiconductor industry, and other risks as described in the Company's annual report on Form 20-F 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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