

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor's New 60V MOSFET Brings Major Improvements to Power Supply Designs

Best-in-class combination of low on-resistance and output capacitance delivers higher efficiency

SUNNYVALE, Calif., Aug. 9, 2011 – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors, today announced the release of [AON6242](#), the flagship device in its new 60V MOSFET portfolio. By leveraging major enhancements in device technology, this new device offers designers exciting new opportunities to increase overall efficiency by reducing the MOSFET switching and conduction losses in system power supplies. This product expands AOS's MOSFET portfolio and enhances its solutions for applications that require medium voltage MOSFETs, especially in the Telecom and Industrial segments.

The AON6242 offers an industry-leading figure of merit ($R_{DS(ON)} * C_{OSS}$) of 1620mOhm-pF that is 48% better than the current leading competitor. The optimized MOSFET parameters reduce power losses with a combination of low on-resistance to reduce conduction losses, and low output capacitance to reduce switching losses. This new product is well suited for a wide range of applications that are pushing the limits of efficiency such as secondary side synchronous rectification in DC/DC and AC/DC converters, primary side switching in DC/DC converters, point of load (POL) DC/DC modules for telecom systems, motor drives, uninterrupted power supplies (UPS), and industrial automation tools. The AON6242 is available in the compact size DFN5x6 green package and is 100% Rg and UIS tested.

“The efficiency of system designs is highly dependent on the performance of the MOSFET in both switching and conducting modes.” said Stephen Chang, Sr. Product Marketing Manager at AOS. “The very low C_{OSS} combined with very low $R_{DS(ON)}$ gives designers the boost in performance needed to meet energy efficiency standards and regulations.”

Technical Highlights

- 60V N-channel MOSFET in DFN5x6 package
- $R_{DS(ON)} < 3.6$ mOhms at $V_{GS} = 10V$
- $R_{DS(ON)} < 4.5$ mOhms at $V_{GS} = 4.5V$
- $C_{OSS} = 540$ pF typ
- $Q_g(4.5V) = 22$ nC typ
- Lowest $R_{DS(ON)} * C_{OSS}$ figure of merit in the market

Pricing and Availability

The AON6242 is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 10,000 pieces is \$0.83.

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, capability and the application 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 the semiconductor industry, and other risks as described in the Company's annual reports 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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