FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Delivers Industry's Lowest On-Resistance in a DFN5x6 Package with New 150V Power MOSFET

Ultra-low on-resistance and superior switching performance enable higher power density

SUNNYVALE, Calif., April 25, 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 announced the release of AON6250, the flagship device in its new 150V AlphaMOS™ medium voltage portfolio. The AON6250 is well suited for a wide range of applications that are pushing the limits of efficiency such as primary side and secondary side switching in telecom and industrial DC/DC converters, secondary side synchronous rectification in DC/DC and AC/DC converters, as well as solar micro-inverters, and POL modules for telecom systems.

The advanced AlphaMOS silicon technology enables AON6250 to deliver an optimized combination of industry-leading on-resistance and fast switching performance. The on-resistance of this device is 57% lower than the previous generation of products and is 8% lower than the leading 150V device found in the market today. Additionally, AON6250 delivers the best figure-of-merit for $R_{DS(ON)}$ * C_{OSS} in the market, thereby reducing the energy loss incurred during switching. The result is increased efficiency in both light-load and heavy-load conditions. This device is available in a compact size DFN5x6 green package and is 100% Rg and UIS tested. AON6250 is the lead product in what will be a new portfolio of 150V products.

"Power system designers are constantly challenged to deliver efficient solutions with growing power requirements, all while reducing board space." said Stephen Chang, Sr. Product Marketing Manager at AOS. "AON6250 delivers the power density and switching performance needed through ultra-low $R_{DS(ON)}$ in combination with low C_{OSS}."

AON6250 Technical Highlights

- 150V N-channel MOSFET in a DFN5x6 package
- $R_{DS(ON)}$ < 16.5 mOhms max at V_{GS} = 10V (lowest in the industry)
- C_{OSS} = 213 pF typ
- Q_g (10V) = 30.5 nC typ
- Lowest $R_{DS(ON)}$ * C_{OSS} figure-of-merit in the market
- 100% Rg and UIS tested

Pricing and Availability

The AON6250 is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 10,000 pieces is $1.18.

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, 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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