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Alpha and Omega Semiconductor Introduces Innovative AlphaMOS(TM) II High Voltage Technology

New Technology Offers a Robust Alternative to Super-Junction MOSFETs

SUNNYVALE, Calif., Oct. 29, 2012 (GLOBE NEWSWIRE) -- [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq:AOSL), a designer, developer and global supplier of a broad range of power semiconductors, today introduced a new high voltage MOSFET silicon technology that offers a more robust alternative to super-junction type products. The AlphaMOS™ II (a 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 new products based on AlphaMOS™ II are ideally suited for high voltage applications where reliability and performance are critical. Such applications include server, telecom and networking power supplies, uninterruptible power supplies, solar inverters, industrial motor control systems, and LED lighting.

Over the years, manufacturers of super-junction MOSFETs have commonly migrated to higher-density processes to reduce cost on a specific product performance. In high-power switching applications, this die-shrink approach can create a design dilemma as smaller dies typically compromise die temperature and avalanche energy capability which can jeopardize overall system performance and reliability. AOS's new AlphaMOS II technology offers a simplified manufacturing process without compromising the core performance of the MOSFET. The new devices have been optimized for diode recovery and finely-tuned switching parameters for low noise operation and high efficiency. Additionally, the AlphaMOS II avalanche energy rating (Eas) is about 60% higher than today's leading super-junction offerings of the same current rating, making it perfectly suited for designs that require higher robustness and reliability.

"With its wealth of device technology and application expertise developed over the years, AOS is addressing the major concerns of customers using super-junction parts by providing more robust solutions without sacrificing cost or performance," said Yalcin Bulut, Vice President of Discrete Product Lines at AOS.

Availability

AOS will roll-out a complete portfolio of 600V AlphaMOS II products within Q4'2012.

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. 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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