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Alpha and Omega Semiconductor Debuts High Performance HV MOSFET α MOS5™ Platform

Engineered for superior switching and EMI performance

SUNNYVALE, Calif., July 11, 2017 (GLOBE NEWSWIRE) -- [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 [AOTF190A60L](#), the first product in the new α MOS5™ HV MOSFET platform. This device provides high-efficiency performance in an easy-to-use solution optimized for server power supplies, high-end computers, charging stations and other high-performance applications. α MOS5™ reduces the on-resistance " $R_{DS} \times A$ " per unit area by 30% versus the previous generation, enabling lower conduction losses in the application. It also enables future HV product offerings to fulfill the market trend of higher power density in new, smaller and more efficient packages.

Photos accompanying this announcement are available at

<http://www.globenewswire.com/NewsRoom/AttachmentNg/e2964188-ee18-4a9e-bdc5-0f67a77df797>

<http://www.globenewswire.com/NewsRoom/AttachmentNg/f5d8e37b-69f4-47e7-9083-c38ebefa9b1f>

<http://www.globenewswire.com/NewsRoom/AttachmentNg/d0f073e7-f794-4b24-81af-3052d7871366>

Additionally, α MOS5™ significantly improves switching performance compared to major competitors; AOTF190A60L offers lower total gate charge with much shorter switching plateau time, which helps reduce switching losses. The new product is packaged in a full-molded TO-220F and has a maximum $R_{DS(ON)}$ of 190mohm.

α MOS5™ was engineered to provide superior EMI performance by optimizing parasitic parameter behavior. The following waveform comparison shows how the EMI is controlled, with a suppressed reverse recovery current (I_{rr}) and a much smoother voltage ramp up during the device turn off.

"The switched-mode power supply is the energy heart in modern IT equipment. The demand for higher power conversion efficiency is driven by the huge amount of electricity consumed by power supplies around the world. High performance converting topologies such as LLC have become the standard solution for most AC/DC converters used by servers inside data center and telecom infrastructure. MOSFET performance is critical to achieving the highest efficiency provided by the power converters. We are glad to announce the release of the AOTF190A60L, based on our latest high voltage MOSFET platform — α MOS5™. The new technology platform targets high efficiency solutions in both PFC and LLC applications," said Simon Lu, Marketing Director of HV MOSFET product line at AOS.

Pricing and Availability

The AOTF190A60L is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 1,000 pieces is \$2.24.

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](#), [IPM](#) 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' 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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