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Alpha and Omega Semiconductor Unveils New 600V Intelligent IGBT Power Module IPM5 Series

Optimized for high efficiency and ruggedness in motor drive applications

SUNNYVALE, Calif., March 28, 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 its intelligent power module, IPM5 series. Its compact size is optimized to deliver excellent efficiency and ruggedness. The IPM5 is a reliable module system designed with AlphaIGBT™ technology integrated with high functional gate driver ICs, and high-density package technology for applications such as refrigerators, washing machines, and fan motors.

A photo accompanying this announcement is available at <http://www.globenewswire.com/NewsRoom/AttachmentNg/ce3eadfd-6320-4a55-b1b1-87deb4f42e76>

The IPM5 series is built upon the latest patent-pending package technology platform and features an industry-leading IGBT technology with fast turn-off and low $V_{CE(SAT)}$ that reduces the power losses incurred during conduction and switching. It is integrated with multi-function gate driver ICs with features such as wide-input voltage interface, over-current protection, and over-temperature protection and monitoring.

"IPM-driven inverters have been widely used in home appliances and 3-phase-motor-drive applications due to global energy saving regulations. IPM5 was developed to meet these requirements while offering the ideal combination of higher efficiency, high ruggedness and better EMI performance," said Dr. Brian Suh, Vice President of IGBT/IPM product line at AOS.

IPM5 Series Technical Highlights

- ┆ Compact form factor
- ┆ UL Recognized: UL1557 File E345245
- ┆ 3-phase inverter module including HVIC drivers and built-in bootstrap diodes

Pricing and Availability

The 600V IPMs are immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 10,000 pieces is \$5.6 for 5A/IPM5s and \$6.6 for 10A/IPM5s.

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'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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