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Alpha and Omega Semiconductor Announces Addition to 1350V IGBTs Family Optimized for Soft-Switching Applications

Low saturation voltage and optimal switching characteristics deliver higher efficiencies and improved performance

SUNNYVALE, Calif., Aug. 17, 2016 (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 addition of AOK30B135W1 to its 1350V AlphaIGBT™ family. The new AOK30B135W1 has been optimized to deliver high performance by reducing switching loss in soft-switching home appliance applications such as induction cooking, rice cookers, and inverter-based microwave ovens.

A photo accompanying this announcement is available at

<http://www.globenewswire.com/NewsRoom/AttachmentNg/a5e89053-a4ab-4293-a55f-4eb1ccdea254>

The AOK30B135W1 is designed with the latest patent-pending AlphaIGBT™ technology platform and features industry-leading low $V_{CE(SAT)}$ and a quick turn-off to ease power loss throughout the conduction and switching process. The exceptional BV_{CES} rating and durable BV performance allow for enhanced safety voltage margin to avoid substantial damage from voltage transients. Additionally, EMI is decreased as a result of soft turn-off current waveforms.

"The technology of induction heating provides precise cooking, a safer and cooler heating surface, and efficient heating of conductive materials," said Dr. Brian Suh, Vice President of IGBT product line at AOS. "Highly efficient and rugged AOK30B135W1 enables robust and reliable operation of the heating system as well as an ideal combination of conduction and switching losses."

Technical Highlights

- | 1350V IGBTs with freewheeling diode in a TO-247 package
- | High breakdown voltage offers ample design margin to improve system reliability
- | Lowest turn-off delay time, less than 200ns
- | $I_C(100^\circ\text{C}) = 30\text{A}$
- | $T_{J(max)} = 175^\circ\text{C}$

Pricing and Availability

The AOK30B135W1 is immediately available in production quantities with a lead-time of 12-14 weeks. The unit price for 10,000 pieces is \$1.5.

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 home appliances (refrigerators, washing machines, air-conditioners and IH cookers), 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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