

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Rolls Out New 650V M-Series IGBT Portfolio Optimized for Motor Drive Applications

SUNNYVALE, Calif., June 4, 2015 – [Alpha and Omega Semiconductor Limited](http://www.aosmd.com) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors and power ICs, today announced the expansion of its IGBT product portfolio with the release of the 650V M-Series. The new M-series is co-packaged with a soft and fast freewheeling diode available in a variety of package types. This platform has been optimized for superior performance with higher robustness in addition to fast and soft turn-off switching in motor drives such as refrigerators, washing machines, fans, air conditioners, treadmills, and sewing machines applications.

All devices for the M-Series are built upon the latest patent pending AlphaIGBT™ technology platform, and feature very low $V_{CE(SAT)}$ and soft turn-off for higher efficiency and reduced power dissipation. The 650V minimum BV_{CES} rating and rugged breakdown voltage characteristics provide higher reliability during extreme voltage transients. Furthermore, low turn-on di/dt and high turn-on dv/dt switching performance effectively reduces EMI.

“IGBT inverter-driven motor control applications are rapidly expanding in the home appliances area due to their extraordinary energy saving benefits. Selecting the right device is vital to attain an ideal balance of efficiency, robustness and reliability.” said Dr. Brian Suh, Vice President of IGBT product line at AOS. “The 650V M-Series offers system designers the ideal blend of higher efficiency, higher short-circuit endurance time, and EMI performance.”

650V M-Series Technical Highlights

- 650V IGBTs with soft and fast freewheeling diode
- Excellent turn-on performance by low di/dt and high dv/dt
- Fast and soft turn-off switching performance
- Short circuit rating (t_{sc}) of $> 5\mu s$ at $400V_{CC}$, $15V_{GE}$ and $150^{\circ}C$
- $T_{J(max)} = 175^{\circ}C$

Pricing and Availability

The 650V M-Series IGBTs are immediately available in production quantities with a lead-time of 12-14 weeks. Please contact your local AOS representative for samples and pricing.

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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