

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Debuts New Smart EZBuck™ Regulator Featuring Adaptable Light Load with Surge Output Current Capability

The new synchronous buck regulator includes a smoke-free function for superior protection

SUNNYVALE, Calif., Sep. 3, 2015 – [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 the [AOZ3053](#), a 5A EZBuck DC/DC regulator with smart mode adaption functions, available in a thermally enhanced exposed pad SO-8 package. The AOZ3053 is the first of this new smart platform, which allows for more thermally efficient DC/DC solutions for consumer, networking and industrial applications such as LCD TVs, set-top boxes, cable modems, and power supplies.

The AOZ3053 is a high efficiency and simple-to-use synchronous step-down regulator with PWM switching frequency of 500kHz and input voltage range of 4.5V to 18V. Leveraging AOS's co-package EZBuck design, the AOZ3053 integrates a 55mΩ high-side and 15mΩ low-side MOSFET, and provides 5A of continuous output current at over 90% efficiency and maintains it at 85% efficiency while in 10mA light load operation. This new device offers various features such as adaptable light load with surge output current capability, over-voltage protection, cycle-by-cycle current limit and short-circuit protection which are a must when powering high-end digital ICs.

“Today’s consumer electronics products are built with features that require more processing power. Design engineers are looking for DC/DC converters that offer higher output current in the same solution size while minimizing power consumption with high-efficient, high-performance power conversion. The AOZ3053 meets these design challenges by providing higher output current and higher efficiency,” said Kenny Hu, Power IC Marketing at AOS.

Technical Highlights

Input Voltage Range:	4.5V to 18V
MOSFET On-Resistance (typ):	High-side (55mOhms) Low-side (15mOhms)
Switching Frequency:	500kHz
Package:	E-Pad SO-8
Efficiency at 10mA (12V-5V):	85%
Thermal (5A):	100°C

Pricing and Availability

The AOZ3053 is immediately available in production quantities with a lead-time of 12 weeks. The unit price of 1,000 pieces is \$1.30.

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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