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Alpha and Omega Semiconductor Continues to Expand Its Fifth Generation EZBuck™ Family by Introducing the First 18V Monolithic Synchronous DC/DC Buck Regulator

SUNNYVALE, Calif., Dec. 23, 2015 (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 the [AOZ3101](#), a high efficiency, simple-to-use synchronous buck regulator, with an operating input voltage range from 4.5V to 18V, supplying 2A of continuous current. The device offers a low on-resistance power stage in a thermally enhanced 3mm x 3mm DFN package, allowing cooler power conversion for a variety of consumer electronics application such as LCD TVs, set-top boxes, as well as DVD players and recorders.

A photo accompanying this announcement is available at <http://www.globenewswire.com/NewsRoom/AttachmentNg/a67bfb16-eaf8-4369-b98f-c0350d131411>

The low on-resistance of the internal power MOSFETs in this device allows higher efficiency and less heat generation. It has over 90 percent efficiency at full load operation and maintains it at 85 percent efficiency while in 10mA light load operation. When operating in low output current conditions, the device will operate in a proprietary pulse energy mode (PEM) to obtain high efficiency. Under heavy load steady-state conditions, the device will operate in fixed frequency and Continuous-Conduction Mode (CCM).

The full load efficiency of the AOZ3101 is 1 percent higher and the IC surface temperature is almost 30 percent lower than that of the closest competitor.

"We continue to expand our fifth generation EZBuck product portfolio to provide our customers with higher efficiency and more reliable DC/DC solutions," said Kenny Hu, Power IC Product Marketing Manager at AOS.

Technical Highlights

Input Voltage Range:	4.5V to 18V
MOSFET On-Resistance (typ):	High-side (160mOhms) Low-side (80mOhms)
Output Current:	2A
Feedback Tolerance:	+/-2 percent
Switching Frequency:	500kHz
Soft-Start Time:	Internal
Compensation:	External
Package:	Exposed Pad DFN3x3

Pricing and Availability

The AOZ3101 is immediately available in production quantities with a lead-time of 12 weeks. The unit price of 1,000 pieces is \$0.68.

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.

The photo is also available via AP PhotoExpress.

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