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Alpha and Omega Semiconductor's New AlphaDFN™ Family Enhances Mobile Battery Protection

...achieves low resistance in space-saving chip-scale packages with enhanced robustness

SUNNYVALE, Calif., Feb. 5, 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 two new MOSFETs optimized for battery protection applications. The [AOC2804](#) and [AOC2806](#) are the latest additions to the AlphaDFN™ package portfolio which takes chip scale packaging to the next level. These devices are specifically targeting one and two cells portable battery pack applications such as those found in the latest smart phones, tablets, media players and wearable devices.

In mobile battery pack applications the protection MOSFET controls charging and discharging of the battery, and is critical to battery life and battery safety. The new generation of devices is optimized with AOS's proprietary power trench technology, which minimizes R_{SS} (source- to-source resistance) in a common-drain MOSFET configuration. For the same dimensions, these new devices can deliver 20% lower resistance, which makes them ideal for conserving battery life. AOC2804, 1.5mm x 1.5mm, is aimed at 22 mΩ max R_{SS} level applications such as feature phones and wearable devices. AOC2806, with slightly larger dimension at 1.7mm x 1.7mm, is a 18 mΩ max R_{SS} device that is best-suited for smart phones. When used in parallel, either device can significantly reduce conduction loss by offering <10 mΩ R_{SS} .

In addition to the silicon technology, the AOC2804 and AOC2806 feature AOS's proprietary AlphaDFN packaging technology encapsulating silicon in a protective molding compound. The resulting product still provides an ultra-thin 0.3mm solution, while providing a more robust structure to solve die chipping and placement issues associated with standard CSP products.

“AOS's new AlphaDFN MOSFETs series deliver a superior solution for battery pack protection. Their low R_{SS} and small chip-scale footprint help designers enhance battery life while saving precious board space. Additionally, the extra layer of protection in the proprietary AlphaDFN package enhances mechanical robustness and reliability”, said George Feng, Senior Manager for Product Marketing.

AOC2804 and AOC2806 are all Halogen-Free and RoHS compliant.

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Device Specification Table

Part Number	V _{DS}	V _{GS}	Max R _{SS(ON)}		Package Dimension	Pricing*
			@ 4.5V	@ 2.5V		
AOC2804	20	±12	22mΩ	36mΩ	AlphaDFN 1.5x1.5	\$0.270
AOC2806	20	±12	18mΩ	29mΩ	AlphaDFN 1.7x1.7	\$0.300

Availability

All devices are immediately available in production quantities with a lead-time of 12-14 weeks. * The unit price is for 1,000 pieces.

About AOS

Alpha and Omega Semiconductor Limited, or [AOS](http://www.aosmd.com), 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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