

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Leads the Way with Industry's First Molded Chip Scale Package

A breakaway technological innovation for space-constrained portable devices

SUNNYVALE, Calif., Aug. 30, 2012 – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors, today introduced the [AOC2403](#) – the industry's first Molded Chip Scale Package (MCSP) in a tiny 0.97mm x 0.97mm x 0.3mm power package. Compared to existing Chip Scale Package (CSP) solutions, MCSP reduces package height by 50% and improves the mechanical robustness of the package by protecting the encapsulated die with a layer of molding compound. The significant performance improvements of the MCSP technology make it ideal for the latest ultra-portable applications such as smart phones, tablet PCs, UltraBooks and other mobile hand-held devices.

MCSP can easily replace a standard CSP by offering the same footprint, pin-out, and pitch, with the benefits of a more rugged and ultra-thin package. The MCSP encapsulates AOS's low on-resistance MOSFET silicon in a Green (halogen-free) molding compound, which end result is to give it a thinner and more robust structure to solve die chipping and placement issues associated with standard CSP products.

"The Molded Chip Scale Package offers an innovative solution to ultra-slim designs while improving the package robustness compared to existing CSP solutions. The innovative package, along with the low on-resistance AOS MOSFET technology, provides designers of ultra-portable systems with a compelling new power management solution." said Peter Wilson, Director of Low Voltage MOSFETs at AOS.

AOC2403 is a 20V 95mOhm P-Channel MOSFET housed in a halogen-free MCSP. The package dimensions are 0.97mm x 0.97mm x 0.3mm. The AOC2403 is the cornerstone on which additional first-class MCSP products are being developed.

Device Specification Table

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(ON)MAX}				Q _g (typ) (nC)	I _D @ T _A = 25°C (A)
			@ 4.5V (mOhms)	@ 2.5V (mOhms)	@ 1.8V (mOhms)	@ 1.5V (mOhms)		
AOC2403	-20	±8	95	115	150	200	4.8	-1.8

Pricing and Availability

The AOC2403 is immediately available in production quantities with a lead-time of 12 weeks. The unit price for 1,000 pieces is \$0.35.

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](#) and [Power IC](#) products. AOS seeks to differentiate itself by integrating its expertise in device physics, process technology, design and advanced packaging to optimize product performance and cost, and its product portfolio is designed to meet the ever increasing power efficiency requirements in high volume applications, including portable computers, flat panel TVs, battery packs, smart phones, portable media players, UPS, motor control and power supplies. 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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