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Alpha and Omega Semiconductor Continues to Lead in SR FET for Quick Charger with Its Newest 60V AlphaSGT™ Products

Full product portfolio offers high efficiency and compact solutions for quick charger applications

SUNNYVALE, Calif., May 31, 2016 – [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 8 new products in the 60V MOSFET family. These products are designed for synchronous rectification in flyback converters, used in quick chargers for smart phones and other portable devices. The part numbers include AO4262E, AO4264E, AO4268, AON6262E, AON6264E, AON6268, AON7262E, and AON7264E. These products offer three levels of maximum on-resistance at 4.5V gate drive voltage: 6.5mohm, 8.5mohm, 13.5mohm. They are available in three package types: SO-8, DFN5x6, and DFN3x3.

The latest evolution of battery technologies now allows the adoption of higher power charger circuits to power up smart phones and other mobile devices within a shorter time. This drives the demand for higher performance MOSFETs for synchronous rectification. There are two major approaches the industry is taking to realize higher charging power. The first approach is to raise the output voltage of the charger, so that with the same output current, higher power can be delivered to the battery system. Then, the charging management circuit converts the power into the desired charging voltage and current. The second approach is to directly increase the output current of the charger circuit. AOS provides MOSFET solutions for both topologies.

These new products primarily address the second approach of using lower voltage and higher current solutions. This approach utilizes a simple circuit design by keeping high current conversion inside the charger. A 60V platform is selected for better on-resistance and voltage tolerance balance. The entire product family is optimized for low on-resistance at a lower gate drive voltage, which is normally around 4.5V for most controllers. Switching losses are significantly dependent on the control scheme used in the charger circuit. AOS's proprietary AlphaSGT™ process provides best-in-class on-resistance with very low parasitic capacitance, which ensures lower switching loss. The devices are also tuned to keep EMI suppression simple and reliable.

“AOS has been working closely with both smart phone pioneers as well as controller chipset providers in pushing forward the synchronous rectifier solutions for high efficiency chargers. Our application know-how in combination with our leading AlphaSGT™ technology keeps us as the solution leader in this field. The release of these 8 new products provides our customers more flexibility in selecting the right product for their specific designs. In addition to providing wider application coverage, we are offering customers a set of products with the best balance of on-resistance with low EMI emission, thermal dissipation with compactness, and efficiency with cost,” said Lei Feng, Sr. Marketing Director of MOSFET product line at AOS.

Device Specification Table

Package	Part Number	R _{DS(ON)} (mΩ max) at VGS=4.5V	Ciss (pF)	Coss (pF)	Crss (pF)
SO-8	AO4268	6.5	2500	670	65
	AO4262E	8.5	1650	520	52
	AO4264E	13.5	1100	300	28
DFN5x6	AON6268	6.3	2520	670	65
	AON6262E	8.5	1650	520	52
	AON6264E	13.3	1100	300	28
DFN3x3	AON7262E	8.5	1652	520	52
	AON7264E	13.3	1100	300	28

Pricing and Availability

All the products released are immediately available in production quantities with a lead-time of 12-14 weeks. The unit prices for 1,000 pieces are shown below:

Part Number	AO4268	AO4262E	AO4264E	AON6268	AON6262E	AON6264E	AON7262E	AON7264E
Unit Price (for 1Kpcs)	\$ 0.79	\$ 0.58	\$ 0.48	\$ 0.79	\$ 0.60	\$ 0.48	\$ 0.58	\$ 0.48

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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