



Alpha and Omega Semiconductor Introduces Protected Smart Load Switch for USB Type-C Applications

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Industry-leading performance, up to 28V over-voltage protection, current limiting and true reverse blocking

SUNNYVALE, Calif., March 15, 2018 (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 introduced a new Type-C Power Delivery compliant load switch with up to 28V over-voltage protection. [AOZ1353](#) is a current-limited load switch with reverse current blocking capability intended for applications where internal circuitry requires protection from exposure to high voltages. This new device offers low $R_{DS(ON)}$ (40mohm) in a thermally enhanced 3x3mm DFN package, making it an ideal solution for the latest notebooks, ultrabooks, desktops, monitors, dockings/dongles, and Thunderbolt/USB Type-C PD applications.

[AOZ1353DI PR Photo](#)

AOZ1353DI PR Photo

The new AOZ1353 operates from voltages between 3.4V and 5.5V from VIN and VOUT is rated at 28V Absolute Maximum. The internal current limiting circuit protects the supply from large load currents. The back-to-back switch configuration blocks any leakage between VIN and VOUT pins when the device is disabled or when the device is enabled, but VOUT is greater than VIN. The AOZ1353 is fully programmable with comprehensive protection features including soft start, short-circuit protection, thermal protection, over-current and over-voltage protection.

“As the USB Type-C PD adoption with its higher power and greater flexibility continues to rise in popularity in notebooks, ultrabooks, desktops, and other connected devices, designers are looking for solutions that offer the necessary protections for the system and its battery against exposure to higher voltages and currents,” said Mehdy Khotan, Power IC Marketing Director at AOS. “The combination of low quiescent current, low $R_{DS(ON)}$, robust ESD and protection features allow AOZ1353 to offer industry-leading performance, making it the ideal power source switch for USB Type-C PD applications.”

Technical Highlights

	AOZ1353DI	Major Competitor
Max Operating Voltage	3.4V to 5.5V	4V to 5.5V
Quiescent Current	80uA	>1500A
Shutdown Current	1uA	7uA
Max Load Current	3.5A	3A
Programmable Soft Start	Adjustable	Fixed

Pricing and Availability

The AOZ1353 is immediately available in production quantities with a lead-time of 12 weeks. The unit price of 1,000 pieces is \$1.5.

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](#), [IPM](#) 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' 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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A photo accompanying this announcement is available at <http://www.globenewswire.com/NewsRoom/AttachmentNg/a54b3964-ee34-44eb-9fe0-92c9ed71ee66>

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