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Alpha and Omega Semiconductor Introduces First USB Type-C Load Switch

20V/5A bidirectional smart load switch with reverse blocking capability

SUNNYVALE, Calif., April 6, 2017, [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 the [AOZ1375](#), AOS's first Type-C Power Delivery full-compliant power protection switch. AOZ1375 is bidirectional current-limited load switch with reverse current blocking capability intended for applications that require circuit protections and soft start function. This device offers a best-in-class $R_{DS(ON)}$ (17.8mohm) 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.

The new device operates from voltages between 3.4V and 23V, and features two power switch terminals, VINT and VBUS which are rated at 28V Absolute Maximum. This is a perfect protection load switch solution for battery charging using USB PD protocol. When used as a source switch, the internal current limiting circuit protects the supply from large load current. The back-to-back switch configuration blocks any leakage between VINT and VBUS pins when the device is disabled.

The AOZ1375 is fully programmable with comprehensive protections including soft start; short-circuit protection, thermal protection, over-current and over-voltage protection. Multiple operating voltages (5V/9V/15V/20V) with programmable over-voltage threshold make it fully compliant with USB PD 3.1 power profile.

“As the USB Type-C PD adoption continues to rise in popularity in notebooks, ultrabooks, desktops, and wire connected devices, designers and users are looking for higher power, higher speed and higher performance solutions to support this market trend,” said Kenny Hu, Power IC Marketing Manager at AOS. “The combination of low on-resistance, robust ESD and full programmable protections allow AOZ1375 to offer industry-leading performance, making it the ideal smart load switch for a variety of USB Type-C PD applications.”

Technical Highlights

	AOZ1375DI	Major Competitor
Max Operating Voltage	23V	20V
FET On-resistance (typ)	17.8mOhms	30mOhms
Max Load Current	5A	5A
Over Voltage Protection	Programmable	Programmable
Bidirectional	Yes	No

Pricing and Availability

The AOZ1375 is immediately available in production quantities with a lead-time of 12 weeks. The unit price of 1,000 pieces is \$3.3.

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'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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