

**FOR IMMEDIATE RELEASE**

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## **Alpha and Omega Semiconductor Announces Advanced eFuse that Meets High Reliability Server Application Requirements**

*The new 60A eFuse features industry-leading performance and low 0.65 milliohm on-resistance with additional features optimized for server power rails*

**SUNNYVALE, Calif., Aug. 12, 2025** – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer, and global supplier of a broad range of discrete power devices, wide bandgap power devices, power management ICs, and modules, today announced the release of its AOZ17517QI series, a 60A eFuse in a compact 5mm x 5mm QFN package. AOS optimized this new eFuse product series for 12V power rails in servers, data centers, and telecom infrastructure.

Due to high-reliability requirements for datacenter and telecom infrastructure products, all critical power rails are monitored and protected by an eFuse device to protect the main power bus from interruption due to abnormal load under fault conditions. AOS' eFuse continuously monitors the current flowing through the power switch. If the current exceeds the set limit, the switch will limit the current to the maximum allowed. If the high current load persists, the switch will eventually turn off, protecting downstream loads from damage, thus acting as a fuse.

The new eFuse is constructed with AOS' advanced co-packaging technology that combines a high-performance IC with protection features and the company's latest high SOA Trench MOSFET. The AOZ17517QI series' MOSFET offers low  $R_{DS(ON)}$  (0.65mohm) that isolates the load from the input bus when the eFuse is off. These devices are designed to integrate accurate analog current and voltage monitoring signals, and designers can also use multiple eFuse devices in parallel for higher current applications. Multiple devices can operate concurrently and seamlessly distribute the current during the startup phase. In addition, the AOZ17517QI features startup SOA management and other protections, enabling a streamlined and glitch-free system power-up or the ability to hot plug into the backplane.

"High-reliability systems such as servers and other types of telecom applications have a critical requirement for input bus protection. Traditional protection methods have used a hot-swap controller and an external discrete FET to meet these needs. However, this approach is being increasingly dropped in favor of a more compact solution offered by an eFuse. AOS' ability to combine our advanced TrenchFET technology with our industry-leading IC technology enables us to provide a more compact, robust eFuse product solution that is optimized for the needs of today's server designs," said James Wang, Power IC Marketing Manager at AOS.

### **Technical Highlights**

- Operating Range: 4.5V to 20V
- 27V Absolute Maximum rating
- Ultra-Low on-Resistance: 0.65mΩ MOSFET

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### Technical Highlights (continued)

- Protection Features: Programmable Over Current Protection, Short-Circuit Protection, Under-Voltage Lock-Out, Over-Voltage Clamp, Thermal Shutdown Protection, Programmable Soft-Start, Startup SOA Management
- Package: 5mm x 5mm QFN-32L

Part Number	Fault Recovery	Operating Voltage Range	Package	Environmental
<a href="#">AOZ17517QI-01</a>	Auto-restart	4.5V - 20V	QFN5x5-32L	RoHS
<a href="#">AOZ17517QI-02</a>	Latch-off	4.5V - 20V	QFN5x5-32L	RoHS

### Pricing and Availability

The AOZ17517QI series is immediately available in production quantities with a lead time of 14 weeks. The unit price for AOZ17517QI starts at \$1.8 in 1,000-unit quantities.

### About AOS

Alpha and Omega Semiconductor Limited, or [AOS](#), is a designer, developer, and global supplier of a broad range of discrete power devices, wide bandgap power devices, power management ICs, and modules, including a wide portfolio of [Power MOSFET](#), [SiC](#), [IGBT](#), [IPM](#), [TVS](#), [HV Gate Drivers](#), [Power IC](#), and [Digital Power](#) 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 personal computers, graphics cards, data centers, AI servers, smartphones, consumer and industrial motor controls, TVs, lighting, automotive electronics, and power supply units for various equipment. For more information, please visit [www.aosmd.com](http://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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