

**FOR IMMEDIATE RELEASE**

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## **Alpha and Omega Semiconductor Enables 48V Hot Swap in AI Servers with New High SOA MOSFET in LFPACK 8x8**

*State-of-the-art MOSFET handles higher peak currents delivering a cost-effective, high-performance and enhanced reliability hot swap solution*

**SUNNYVALE, Calif., Dec 2, 2025** – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer, and global supplier of a broad range of discrete power devices, wide band gap power devices, power management ICs, and modules, today announced its [AOLV66935](#) a 100V High Safe Operating Area (SOA) MOSFET in an LFPACK 8x8 package. AOS' latest MOSFET is designed as an ideal solution for 48V Hot Swap architectures in AI servers. The power demands of AI servers are intensifying, primarily driven by the increasing performance in the GPU/TPU. In addition to its wide SOA capability, the AOLV66935 Hot Swap MOSFET features very low on-resistance to meet these performance, efficiency and reliability challenges.

The AOLV66935 utilizes AOS' 100V AlphaSGT™ proprietary MOSFET technology that combines the advantages of trench technology for low on-resistance with high SOA capability. AOS has tested and characterized the SOA at 25°C as well at higher operating conditions of 125°C giving system architects the confidence that the device will operate reliably under harsh conditions. Available in AOS' state-of-the-art packaging, the MOSFET's LFPACK 8x8 gull-wing constructed package is 60 percent smaller compared to the TO-263 (D2PAK) package. It also features advanced clip technology with a high current rating to provide high inrush current capabilities. In addition, the copper clip and packaging technology used offers low thermal resistance for improved thermal management. The AOLV66935 is manufactured in IATF 16949-certified facilities, and its LFPACK 8x8 packaging is compatible with automated optical inspection (AOI) manufacturing requirements.

Furthermore, the AOLV66935 provides low power loss and reduced heat generation due to its leading low RDS(on) of 1.86 milliohms maximum rating at Vgs=10V. All the advanced features and high current capabilities designed into the AOLV66935 MOSFET deliver the necessary robustness for enhanced thermal cycling in harsh conditions that is now required in the latest AI server applications.

"To be able to perform the 48V hot swap in AI servers requires a MOSFET that excels in high current capability while providing exceptional high SOA robustness and reliability. AOS designed the AOLV66935 High SOA MOSFET packaged in our advanced LFPACK 8x8 specifically to meet these demands. Plus, its exceptional low on-resistance significantly decreases conduction losses so fewer devices in parallel are required allowing designers to meet space limitations," said Peter H. Wilson, Sr. Director of MOSFET product line at AOS.

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## Technical Highlights

Part Number	Package	V <sub>DS</sub> (V)	V <sub>GS</sub> (±V)	T <sub>J</sub> (°C)	Continuous Drain Current (A)		Pulsed Drain Current (A)	R <sub>DS(ON)</sub> Max (mOhms) @10V
					@25°C	@100°C	@25°C	
AOLV66935	LFPK 8x8	100	20	175	334	236	1336	1.85

## Pricing and Availability

The AOLV66935 MOSFETs are immediately available in production quantities with a lead time of 14-16 weeks. The unit price in 1,000-piece quantities is \$3.6.

## 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 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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