

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Introduces 4-Channel Ultra-Low Capacitance Ultra-Low Clamping Voltage TVS Array

Ideal for USB 3.x, HDMI 2.x, PCI Express Protection for Computers and Televisions

SUNNYVALE, Calif., Sept. 29, 2020 – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL) a designer, developer and global supplier of a broad range of power semiconductors, power ICs, and digital power products, today introduced the [AOZ8S212UD4](#), [AOZ8S321UD4](#), and [AOZ8S306BD4](#), a series of Transient Voltage Suppressor (TVS) for high-speed line protection using the best-in-class low capacitance TVS platform. The new products are ideal for Electrostatic Discharge (ESD) protection for laptops, televisions, and other electronic devices.

The low capacitance TVS series is optimized for high-speed line protection including but not limited to USB, Thunderbolt, HDMI, and PCI Express, avoiding the transmission error by minimizing the capacitance effect. The new series of products housed in a DFN2.5mm x 1.0mm and DFN2x1mm leadless Surface-Mounted Device (SMD) and its flow-through feature is ideally suited to the route design of differential pairs on printed circuit board.

“As the leading vendor in ESD protection solutions in high-speed interfaces, our newly released TVS platform provides a much better Figure of Merit (FOM) on the clamping voltage times capacitance. AOS is confident the new TVS products will contribute to reducing the ESD failure rate in our partners’ and customers’ electronic products,” said Michael K. S. Ng, Sr. Marketing Manager of the TVS product line at AOS.

Technical Highlights

Part Number	Direction	V _{RWM} (V)	Rated I _{PP} (A)	C _J (pF)	V _{CL} (V) at I _{TLP=16A}	Package	Application
		Max.	Max.	Typ.	Max.		
AOZ8S212UD4-03	UNI	3.3	3	0.2	9	DFN2.5x1.0-10L	USB3.2 & PCIE & HDMI2.1
AOZ8S212UD4-05	UNI	5	3	0.2	9	DFN2.5x1.0-10L	USB3.2 & PCIE & HDMI2.1
AOZ8S321UD4-03	UNI	3.3	5	0.28	6	DFN2.5x1.0-10L	USB3.1 & PCIE & HDMI2.0
AOZ8S321UD4-05	UNI	5	5	0.28	6	DFN2.5x1.0-10L	USB3.1 & PCIE & HDMI2.0
AOZ8S306BD4-05	BI	5	5	0.25	4	DFN2x1-5L	USB3.1 & PCIE & HDMI2.0

Pricing and Availability

The [AOZ8S212UD4](#), [AOZ8S321UD4](#), and [AOZ8S306BD4](#) are immediately available in production quantities with a lead-time of 16 weeks. The unit price for 1,000 pieces is \$0.10.

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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](#), [TVS](#), [HVIC](#), [GaN/SiC](#), [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's portfolio of products targets high-volume applications, including portable computers, flat-panel TVs, LED lighting, smartphones, 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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