

FOR IMMEDIATE RELEASE

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Alpha and Omega Semiconductor Introduces Ultra-Low Clamping Voltage High-Surge TVS

Ideal for USB Type-C V_{BUS} Protection for Laptops and Smartphones

SUNNYVALE, Calif., Oct. 16, 2019 – [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 [AOZ8621UNI](#), a series of Transient Voltage Suppressor (TVS) for V_{BUS} protection using the latest high-surge TVS platform. This new series is ideal for USB Type-C Power Delivery, including but not limited to laptops and smartphones.

The new AOZ8621UNI series covers a reverse working voltage (V_{RWM}) range from 5V to 22V, which meets the requirement of USB Power Delivery. Required V_{RWM} can be selected according to the maximum operating voltage on the Type-C V_{BUS} pin. The AOZ8621UNI series is housed in a DFN 2x2 package and is ideally suited to fit the small footprint requirement of Type-C application small electronic devices.

With such low breakdown voltage, low clamping voltage, and high-surge current, AOS believes the new high-surge TVS platform will contribute to reducing the ESD and EOS failure rate in our partners’ and customers’ products,” said Michael K. S. Ng, Sr. Marketing Manager of the TVS product line at AOS.

Technical Highlights

Part Number	V_{RWM} (V)	Rated I_{PP} (A)	Breakdown Voltage V_{BR} (V)	V_{CL} (V) at I_{PP_RATED}
	Max	Max	Typ	Max
AOZ8621UNI-05	5	380	7	12
AOZ8621UNI-07	7.5	320	9	16
AOZ8621UNI-12	12	190	14.5	23.5
AOZ8621UNI-15	15	140	18	28
AOZ8621UNI-18	18	120	21	33
AOZ8621UNI-20	20	110	23.5	38
AOZ8621UNI-22	22	100	25.5	39

Pricing and Availability

The [AOZ8621UNI](#) is immediately available in production quantities with a lead time of 16 weeks. The unit price for 1,000 pieces is \$0.20.

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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' 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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