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## Alpha & Omega Semiconductor Introduces High Current Surge Device to Protect Ethernet Ports

**SUNNYVALE, Calif, June 25, 2009** – Alpha & Omega Semiconductor, Inc. (AOS) announced the release of AOZ8304, which protects high speed 10/100/1000 Ethernet ports from the high current surges that are induced by lightning transients.

The AOZ8304 features an industry-leading combination of low-capacitance and surge protection. The device capacitance is only a typical 3.5pF as measured from the I/O to Ground pins, which minimizes any data line signal distortion effect by inserting this device in the data path. The high 25A surge protection rating meets the IEC61000-4-5 (Lightning) 25A requirement, making this device ideally suited for applications that require surge protection of Ethernet ports or RJ45 connectors.

“With the ubiquity of LAN enabled products and solutions in commercial and industrial environments, high transient surge protection has become an increased concern for our customers. The introduction of AOZ8304 helps to improve overall system robustness and reliability by reducing the risk of port failures due to lightning transients and the resulting induced high current and voltage surges,” said Wayne Eng, Marketing Director for AOS’ TVS products. “The small form factor DFN 2.6 x 2.6 package makes AOZ8304 ideal for space limited applications such as power-over-LAN adapters and integrated LAN connector solutions,” Eng added.

### Technical Highlights

The AOZ8304 was developed using AOS’ advanced [TVS]<sup>2</sup>™ technology (Transient Voltage Suppression utilizing Trench Vertical Structures). The device offers a very high level of protection with its ±24kV air and contact discharge ESD rating and very low clamping voltage of 14V at 25A.

The AOZ8304 is housed in a very low profile (0.55mm) and small footprint (2.6mm x 2.6mm) halogen-free DFN package.

### Pricing and Availability

The AOZ8304 is available immediately in production quantities. The table below shows brief specifications and pricing.

Part Number	IEC 61000-4-2 (ESD)		Protected Lines	IEC 61000-4-5 (Lightning)	Channel Input Capacitance (I/O - GND typ.)	Package	Unit Price (1K+)
	Contact	Air					
AOZ8304DI	± 24kV	± 24kV	4	25A	3.5pF	DFN2.6x2.6	\$0.73

## **About AOS**

Alpha & Omega Semiconductor, Inc. is a fabless semiconductor company that develops leading-edge analog power management solutions. AOS offers a wide portfolio of power MOSFET, Power IC and Transient Voltage Suppressor products that incorporate advances in device design, silicon, and packaging technologies. AOS' products meet the ever increasing performance and power efficiency requirements in high volume consumer applications such as portable and desktop computers, digital cameras, cell phones, and LCD panels. AOS has offices worldwide including the United States, China, Hong Kong, Taiwan and South Korea. For more information, please visit [www.aosmd.com](http://www.aosmd.com)

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