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FOR IMMEDIATE RELEASE

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[SP8008 Series Product Image](#)

Low Capacitance TVS Diode Arrays from Littelfuse Reduce Signal Degradation and Distortion in High-Speed Applications

Protects fast signal pins like V-by-One, Embedded DisplayPort, HDMI 1.0 through 2.1, USB 2.0/3.0/3.1

CHICAGO, March 14, 2017 — [Littelfuse, Inc.](http://www.littelfuse.com), the global leader in circuit protection, today introduced a series of TVS Diode Arrays (SPA[®] Diodes) designed to provide eight channels of ultra-low capacitance common mode and differential mode protection for electronic equipment exposed to electrostatic discharges (ESD). SP8008 Series Low Capacitance TVS Diode Arrays offer the robustness necessary to protect against ESD events exceeding the IEC 61000-4-2 contact ESD level of ± 8 kV without any performance degradation. Their extremely low loading capacitance (just 0.3pF typ.) also makes these components ideal for protecting high-speed signal pins such as V-by-One, Embedded DisplayPort, HDMI 1.0 through 2.1 and USB 2.0/3.0/3.1 without sacrificing signal integrity.

Typical applications for the SP8008 Series include high-speed interface protection for LCD/PDP TVs, LCD/LED monitors, notebook computers, ultrabooks, automotive displays, flat panel displays, digital signage, HD cameras/projectors, and USB and HDMI interfaces.

“In addition to their low loading capacitance and low dynamic resistance, SP8008 Series TVS Diode Arrays offer circuit designers the advantages of a compact form factor,” said Tim Micun, global product manager/TVS Diode Arrays at Littelfuse. “Their μ DFN-14 packaging saves board space and supports straight-through routing of data lines.”

SP8008 Series TVS Diodes offer these key benefits:

- Low loading capacitance (0.3pF typ.) reduces signal degradation and distortion for high-speed applications.
- Low dynamic resistance (0.4Ω) provides low clamping performance to preserve signal integrity and minimize data loss while offering a more robust device against electrical threats.
- Permits manufacturers to achieve ESD protection beyond the maximum level stated in the IEC standard and protects against a multitude of other threats to ensure product reliability.

Availability

SP8008 Series TVS Diode Arrays are available in surface mount μDFN-14 packages in tape and reel format in quantities of 3,000. Sample requests can be placed through authorized Littelfuse distributors worldwide. For a listing of Littelfuse distributors, please visit Littelfuse.com.

For More Information

Additional information is available on the [SP8008 Series product page](#). For technical questions, please contact: Tim Micun, global product manager/TVS Diode Arrays, tmicun@littelfuse.com.

About Littelfuse

Founded in 1927, Littelfuse is the world leader in circuit protection with growing global platforms in power control and sensing. The company serves customers in the electronics, automotive and industrial markets with technologies including fuses, semiconductors, polymers, ceramics, relays and sensors. Littelfuse has over 10,000 employees in more than 40 locations throughout the Americas, Europe and Asia. For more information, please visit the Littelfuse website: littelfuse.com.

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