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Littelfuse Expands TVS Diode Array Line with New Series Designed to Improve ESD Protection in Smartphones, Tablets and Laptops

Higher standoff voltages provide added ESD protection for large-format touchscreens



CHICAGO, November 17, 2015 — Littelfuse, Inc., the global leader in circuit protection, has introduced the SPxx-01WTG-C-HV Series (SPxx Series) of general purpose ESD Protection TVS Diode Arrays (SPA® Diodes). The SPxx Series extends previous improvements for protecting sensitive electronic devices from damage due to electrostatic discharge (ESD) and other overvoltage transients. These new "high-voltage" 0201-size components are well suited for safeguarding the data lines on larger touchscreen modules that are used in large-format tablets and notebooks. They use higher voltages across their rows and columns to allow the touchscreen to distinguish between intended and unintended touches. The SPxx Series can safely absorb repetitive ESD strikes above the maximum level of the IEC61000-4-2 international standard without performance degradation and safely dissipate up to 8A of induced surge current with comparatively low clamping voltages. In addition, when compared to other industry solutions, it offers 25 percent higher peak pulse power, 50 percent lower leakage current, and up to 40 percent lower capacitance. Unlike those other solutions, the SPxx Series is AEC-Q101 qualified, assuring circuit designers of automotive-grade quality.

Typical applications for SPxx Series TVS Diode Arrays include ESD protection for touchscreens, portable instrumentation, LED lighting modules, and low speed I/Os.

"The SPxx Series offers design engineers a choice in selecting the appropriate voltage for the interface they need to protect," said Tim Micun, product manager for the TVS Diode Array (SPA® Diodes) line. "With standoff voltages as high as 36V, they simplify protecting the large-format touchscreens that are increasingly popular on the newest PCs, laptops, tablets, and smartphones."

SPxx Series TVS Diode Arrays offer these key benefits:

- They promote high ESD immunity and superior protection, giving design engineers more design margin and higher end-product reliability in the field.
- They are available in bidirectional configuration at standoff voltages of 12V, 15V, 24V or 36V, enabling protection of 95 percent of all interfaces.
- Their low dynamic resistance of 0.4 ohms produces low clamping voltages, allowing for protection of modern/small geometry chipsets against industry-defined ESD transients.

Availability

SPxx Series TVS Diode Arrays are available in flipchip packages in tape and reel packaging, with a minimum order quantity of 10,000. Sample requests can be placed through authorized Littelfuse distributors worldwide. For a listing of Littelfuse

distributors, please visit http://www.littelfuse.com/contactus.aspx.

For More Information
Additional information is available on the SPxx Series product page. If you have technical questions, please contact: Tim Micun, product manager, TVS Diode Arrays (SPA® Diodes), 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 global customers in the electronics, automotive and industrial markets with technologies including fuses, semiconductors, polymers, ceramics, relays and sensors. Littelfuse has over 8,000 employees in more than 35 locations throughout the Americas, Europe and Asia. For more information, please visit the Littelfuse website: Littelfuse.com.

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