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New Littelfuse TVS Diode Arrays Provide 20 Percent Higher Protection against Lightning Induced Surges and ESD

Robust protection for telecommunications interfaces: T1/E1/T3/E3, HDSL/SDSL, Ethernet

CHICAGO, March 26, 2013 - Littelfuse, Inc., the global leader in circuit protection, has introduced the SRDA05 Series of TVS SPA® Diode Arrays. The SRDA05 Series is designed to protect telecommunications data lines against electrostatic discharge (ESD) and high surge events, providing a 20 percent higher power and surge handling capability than competitive devices on the market. By integrating low capacitance steering diodes with an additional zener diode, the SRDA05 offers more design margin to electrical threats defined by industry standards and increased ESD protection without performance degradation.

Typical applications of these devices include tertiary (IC side) protection for telecommunication interfaces such as T1/E1/T3/E3 data lines, xDSL interfaces, RS-232/RS-485 interfaces, 10/100/1000 Ethernet interfaces and video lines. They are also suitable for industrial and medical equipment applications.

"The SRDA05 Series offers the highest surge, power dissipation, and ESD performance available for devices of this type, providing design engineers the flexibility to build in additional margin against electrical threats as defined by industry standards," said Chad Marak, Director of the LittelfuseTVS Diode Arrays product line. "For example, when compared with leading competitors, the SRDA05 Series has a much higher surge rating (30A vs. 25A), power dissipation rating (600W vs.500W), and ESD rating (30kV vs. 8kV)."

The SRDA05 Series TVS Diode Arrays offer these key features and benefits:

Features

- Robust surge protection: Lightning, IEC61000-4-5, 30A (8/20µs); Peak pulse power, 600W (8/20µs)
- Low dynamic resistance (R_{DYN}) of only 0.8?
- Low capacitance of 8pF (typ.) from I/O to GND
- Enhanced ESD capability: IEC61000-4-2, ±30kV contact, ±30kV air

Benefits

- 20 percent higher power and surge handling capability than similar market solutions; offers more design margin to electrical threats defined by industry standards
- Provides optimal clamping voltage for today's sensitive chipsets, protecting them from catastrophic failure and maximizing system reliability
- Capacitance up to 20 percent lower than similar market solutions; helps to preserve signal integrity, minimizes data loss during transmission
- Enhanced ESD protection far exceeds the highest level of the IEC61000-4-2 standard (±8kV)

Availability

The SRDA05 Series TVS Diode Arrays are available in quantities of 2,500 in tape and reel packaging. Samples are available now for bulk orders; 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 SRDA05 Series product page and datasheet. If you have technical questions, please contact: Chad Marak, Director, Littelfuse TVS Diode Arrays, cmarak@littelfuse.com

About Littelfuse

Founded in 1927, Littelfuse, Inc., the worldwide leader in circuit protection, offers the industry's broadest and deepest portfolio of circuit protection products and solutions. Littelfuse devices protect products in virtually every market that uses electrical energy, from consumer electronics to automobiles to industrial equipment. In addition to its Chicago, Illinois, world headquarters, Littelfuse has more than 30 sales, distribution, manufacturing and engineering facilities in the Americas, Europe

and Asia. Technologies offered by Littelfuse include Fuses; Gas Discharge Tubes (GDTs); Positive Temperature Coefficient Devices (PTCs); PulseGuard® ESD Suppressors; SIDACtor® Devices; Silicon Protection Arrays (SPA® Diode Arrays); Switching Thyristors; TVS Diodes and Varistors. The company also offers a comprehensive line of highly reliable Electromechanical and Electronic Switch and Control Devices for commercial and specialty vehicles and Sensors for automobile safety systems, as well as Protection Relays and underground Power Distribution Centers for the safe control and distribution of electricity.

For more information, please visit the Littelfuse website: Littelfuse.com.

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