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Low Profile 600W TVS Diode from Littelfuse Protects Sensitive Electronics from Voltage Transients

Designed for automotive, portable, and high reliability applications

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CHICAGO, January 24, 2013 - Littelfuse, Inc., the global leader in circuit protection, has introduced the TPSMA6L Series of Transient Voltage Suppression (TVS) Diodes. This new series can provide secondary transient voltage protection from transients induced by load dump and other transient voltage events for automotive electronic control units, sensors, entertainment systems, and other applications that require high reliability. This SMA device's low profile DO-221AC package is less than 1.1 mm high, but it offers the same peak pulse power dissipation (P_{PPM}) rating (600W) as standard SMB devices.

The TPSMA6L Series offers superior electrical performance in a small footprint package, allowing designers to upgrade their circuit protection without altering their existing design footprint or provide more robust protection in new circuit layouts.

"The TPSMA6L Series' low-profile, small-footprint design and 600W rating make these TVS diodes a great solution for secondary protection in high reliability, automotive, and portable device applications," said Charlie Cai, Global Product Manager for Littelfuse TPSMA6L product line. "They are also AEC-Q101 qualified, which is a critical consideration for automakers because components that meet this specification are suitable for use in the harsh automotive environment without additional component level qualification testing."

More AEC-Q101 qualified automotive TVS protection products will be available after Q1, 2013.

The TPSMA6L Series TVS Diode offers these key features and benefits:

Features

- 600W peak pulse power dissipation (P_{PPM}) rating
- Low profile (less than 1 mm) surface mount package (DO-221AC) and small footprint design
- AEC-Q101 qualified
- Compliant with IEC 61000-4-2 and IEC 61000-4-4 standards

Benefits

- Provides same power rating as a standard SMB device
- Compatible with standard SMA and SMB devices
- Suitable for use in harsh automotive environments
- Provides superior surge and ESD protection

For More Information

If you have questions or require technical support, please contact the Littelfuse technical support hotline at 1-800-999-9445. For circuit protection application design ideas, please visit the Application Design Center section of the Littelfuse website.

Availability

The TPSMA6L Series TVS Diode is available in quantities of 3,000 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.

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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®); 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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