

Littelfuse Inc.
8755 West Higgins Road, Suite 500
Chicago, Illinois 60631
p: (773) 628-1000 f: (773) 628-0802
www.littelfuse.com

FOR IMMEDIATE RELEASE

Media Contact:

Rhonda Stratton
Global Marketing Communications Manager
Electronics Products, Littelfuse, Inc.
773-628-0644
rstratton@littelfuse.com
twitter.com/littelfuse



[TPSMB Series Automotive TVS Diode](#)

AEC-Q101 Qualified TVS Diode Offers Single-Component Protection Solution for Transients Up to 550V

Provides 600W peak pulse power dissipation in a standard DO-214AA SMB package

CHICAGO, November 6, 2017 — [Littelfuse, Inc.](http://www.littelfuse.com), the global leader in circuit protection, today introduced higher voltage AEC-Q101 qualified TVS Diodes optimized to protect sensitive automotive circuitry from damaging surges and electrostatic discharges. Because it combines up to 600 watts of peak pulse power dissipation with fast response, the TPSMB Series Automotive TVS Diode offers circuit designers a high-voltage, single-component circuit protection solution. By eliminating the need to use multiple TVS Diodes in series to provide adequate protection, the TPSMB Series can simplify printed circuit board design and improve reliability significantly. With a standoff voltage range from 10V to 550V for both unidirectional and bidirectional forms, the series is ideal for the protection of I/O interfaces, Vcc bus and other vulnerable circuits.

Typical applications for TPSMB Series TVS Diodes include:

- automotive electronic control units (ECUs),
- BCMs/LIN Bus/CAN Bus,
- automotive sensors,
- on-board entertainment systems,
- Xenon head lamp ignitors,
- IGBT active clamping in HVAC and convertor/invertor systems, and
- series battery protection in Battery Management Systems (BMSs).

“Both unidirectional and bidirectional AEC-Q101 qualified TPSMB Series TVS Diodes can now deliver higher voltage protection in a standard DO-214AA SMB package,” said Charlie Cai, global product manager, Electronics Business Unit at Littelfuse. “The combination of higher voltage protection and a small footprint means circuit designers don’t need to reserve additional circuit board space to accommodate multiple TVS Diodes.”

TPSMB Series Automotive TVS Diodes offer these key benefits:

- 600W peak pulse power dissipation rating is popular for automotive applications.
- AEC-Q101 qualified devices are well-suited for applications that demand high reliability.
- Compact DO-214AA package allows for quick and easy PCB layout.
- 10V to 550V standoff voltage range meets automotive design requirements and addresses needs of IGBT active clamping and Xenon head lamp ignitor protection.
- Compliance with IEC 61000-4-2 and IEC 61000-4-4 helps designers meet global regulatory standards.

Availability

TPSMB Series Automotive TVS Diodes are available in tape and reel format in quantities of 3,000. Sample requests may 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 [TPSMB Automotive TVS Diode product page](#). For technical questions, please contact: Charlie Cai, global product manager, ccai@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 Littelfuse.com.

LFUS-P

#