

Featured Products Bulletin

POWER TVS PRODUCTS



Bourns Releases New High Power TVS Diodes in SMD Package

Model PTVS15-058C-SH and PTVS15-076C-SH

Riverside, California - December 10, 2013 - Bourns is pleased to announce the release of the [Model PTVS15-058C-SH and PTVS15-076C-SH High Current Bidirectional TVS Diodes](#), designed for use in high power DC bus clamping applications.

The devices offer bidirectional port protection meeting IEC 61000-4-5 8/20 μ s current surge requirements and are RoHS compliant*. When compared to competing MOV technology, the use of silicon technology in the Power TVS products provides a lower clamping voltage under surge, greater performance stability and increased reliability.

The SMD package provides a 20 % reduction in peak clamping voltage compared to the equivalent through-hole device because of its lower lead inductance. The result is reduced electrical stress on the protected circuitry. In addition, it should simplify assembly and can reduce costs by eliminating the extra design step in cases where the Power TVS diode is the only through-hole component on the printed circuit board.

These products exhibit an excellent surge response versus temperature, with a maximum surge current rating at 150 °C being 70 % of its rated value at 25 °C.

Bourns® Model	Standoff Voltage	Peak Pulse Current Rating (I_{ppm})	Package Type
PTVS15-058C-SH	58 V	15 kA	SMD
PTVS15-076C-SH	76 V	15 kA	SMD

The product data sheet with detailed specifications can be viewed on the Bourns website at www.bourns.com.

Should you have any questions or need additional information, please contact [Customer Service/Inside Sales](#).

Features

- 58 V or 76 V standoff voltage
- Very high surge current protection (15 kA @ 25 °C)
- SMD package offers ease of assembly and 20 % lower clamping voltage than equivalent through-hole devices
- Excellent surge performance vs. temperature
- RoHS compliant*

Applications

- Exposed AC/DC power supplies (in wireless base stations, etc.)