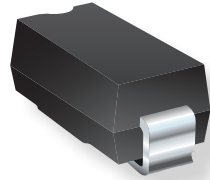




NEW PRODUCT RELEASE

TVS DIODES



Bourns Announces New 1500 Watt TVS Diodes

Model 1.5SMBJ Series

Riverside, California – September 10, 2021 – Bourns is pleased to announce the release of the new [Model 1.5SMBJ Series](#) TVS Diodes for power supply equipment, communications, and data center markets. This new series was designed to provide high power rated TVS diode components in a compact package.

The Model 1.5SMBJ Series is housed in an SMB (DO-214AA) package with a 1500 watt power rating and is well suited for the protection of power buses due to its surge withstanding capability. Compared to the conventional Bourns® SMCJ series which is housed in an SMC (DO-214AB) package, the 1.5SMBJ series features the same P_{pk} but saves up to 58 % of the PCB area.

The Bourns® Model 1.5SMBJ Series is rated at 1500 watts, 10/1000 μ sec. In the data sheet, I_{pp} @ 8/20 μ sec is also tabulated so that customers can design their applications to pass the IEC 61000-4-5 standard.

Series	Working Peak Reverse Voltage (V_{RWM})	Directional	Peak Pulse Power Dissipation (P_{PK})
1.5SMBJxxA	12 ~ 85 V	Unidirectional	1500 W
1.5SMBJxxCA	12 ~ 58 V	Bidirectional	1500 W

In addition to standard 13-Inch tape and reel, Bourns also offers a 7-inch reel option for this series to cover smaller quantity demands.

Description	7-inch Reel	13-inch Reel
Quantity per Reel	500 pcs.	3,000 pcs.

Now available, the 1.5SMBJ Series TVS Diodes are RoHS* compliant and halogen free**. Bourns TVS Diode data sheets with detailed specifications can be viewed on the Bourns website at www.bourns.com/products/diodes/tvs-diodes.

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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

Features

- RoHS compliant* and halogen free**
- DO-214AA (SMB) package
- Standoff Voltage: 12 to 85 volts
- Power Dissipation: 1500 watts
- Typical temperature coefficient: $DVBR = 0.1 \% \times VBR @ 25^{\circ}C \times DT$

Applications

- IEC 61000-4-2 ESD (Min. Level 4)
- IEC 61000-4-4 EFT

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