



Bourns Introduces New AEC-Q101 Compliant Discrete TVS Diode Products

Model 15KPA-SD-Q Series

Riverside, California – October 17, 2019 – Bourns is pleased to announce the release of the [Model 15KPA-SD-Q](#) Transient Voltage Suppressor Diode Series. This series was designed for use in DC bus clamping applications and for the protection of sensitive electronics components against overvoltage transients.

The Model 15KPA-SD-Q series offers superior performance with its high peak pulse power (10/1000 μ s) rating of 15 kW and high peak pulse current (8/20 μ s) rating of 1 kA. It also achieves lower clamping voltage under surge, better performance stability and increased reliability compared to competing MOV technology.

The Model 15KPA-SD-Q series comes in a surface mount DO-218AB package that is an optimal choice for automated pick and place assembly and reflow processes, simplifying PCB assembly and reducing production costs when compared to traditional through-hole packages functionally similar to the series.

Furthermore, the Model 15KPA-SD-Q series is AEC-Q101 compliant and well suited for applications that require high reliability such as power supplies and equipment used in certain harsh environments.

Series	Configuration	Reverse Standoff Voltage	Peak Pulse Power Dissipation (10/1000 μ s)	Peak Pulse Current (8/20 μ s)
15KPA-SD-Q	Unidirectional	16 - 43 V	15,000 W	1000 A
	Bidirectional	16 - 66 V	15,000 W	1000 A

Features

- Maximum Peak Pulse Power (10/100 μ s): 15 kW
- Maximum Peak Pulse Current (8/20 μ s): 1 kA
- Standoff voltage: 16 to 66 volts
- RoHS compliant* and halogen free**
- AEC-Q101 compliant***

Applications

- High peak power applications
- High temperature applications
- Clamping diode
- Load switching and lighting

* 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.

*** "Q" part number suffix indicates AEC-Q101 compliance



For more information on Bourns® AEC-Q101 compliant TVS Diodes, please visit the website at www.bourns.com/products/diodes/diodes-aec-q101-compliant.

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