

TVS Diode Single Bi-Dir 12V 500W 2-Pin DO-15 T/R**Manufacturer:** [Littelfuse Inc](#)**Package/Case:** DO-15**Product Type:** Thyristors**Lifecycle:** Active

Images are for reference only

[Inquiry](#)**General Description**

The SA Series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events.

Key Features

Typical maximum temperature coefficient $\Delta VBR = 0.1\% \times VBR@25^{\circ}C \times \Delta T$

Glass passivated chip junction in DO-15 Package

500W peak pulse capability at $10 \times 1000\mu s$ waveform, repetition rate (duty cycles):0.01%

Fast response time: typically less than 1.0ps from 0 Volts to BV min

Excellent clamping capability

Typical failure mode is short from over-specified voltage or current

Whisker test is conducted based on JEDEC JESD201A per its table 4a and 4c

IEC-61000-4-2 ESD 15kV(Air), 8kV (Contact).

ESD protection of data lines in accordance with IEC 61000-4-2 (IEC801-2)

EFT protection of data lines in accordance with IEC 61000-4-4 (IEC801-4)

Low incremental surge resistance

Typical IR less than $1\mu A$ above 13V

High temperature soldering guaranteed: $260^{\circ}C/40$ seconds / $0.375''$, (9.5mm) lead

length, 5 lbs., (2.3kg) tension

Plastic package has underwriters laboratory flammability classification 94V-O

Matte tin lead-free plated

Halogen free and RoHS compliant

Application

TVS devices are ideal for the protection of I/O interfaces, VCC bus and other vulnerable circuits used in telecom, computer, industrial and consumer electronic applications.

Recommended For You

SA5.0A

Littelfuse Inc

DO-15

SA30CA

Littelfuse Inc

DO-15

PESD0402-140

Littelfuse Inc

SMD

SMAJ12A

Littelfuse Inc

SMA

SMAJ58CA

Littelfuse Inc

SMA

SMBJ22A

Littelfuse Inc

SMB

SMAJ30A

Littelfuse Inc

SMA

SMBJ30A

Littelfuse Inc

SMB

SMAJ24CA

Littelfuse Inc

DO-214AC

SP3010-04UTG

Littelfuse Inc

UDFN-10

SMBJ18A

Littelfuse Inc

SMB

SMBJ24A

Littelfuse Inc

SMB

SMBJ36CA

Littelfuse Inc

SMB

5KP33A

Littelfuse Inc

R-6

SMAJ12CA

Littelfuse Inc

SMA