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SMBJXXA

1-Line ESD Protection



Description

SMBJXXA are designed to protect sensitive electronics from damage or latch-up due to EOS, lightning, CDE, and ESD. They feature large cross-sectional area junctions for conducting high transient currents. These devices offer desirable characteristics for board level protection including fast response time, low operating and clamping voltage, and no device degradation.

SMBJXXA series may be used to protect 5V to 170V systems. They feature high surge current capability and high peak power rating, making them ideal for use in harsh transient environments.

Applications

- Industrial Equipment
- Telecom/Datacom

Features

- High ESD withstand Voltage:
 - IEC 61000-4-2 (ESD): 30kV (Contact), 30kV (Air)
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
- Peak power dissipation 600W @ 10x1000µs pulse
- Protects one data or power line
- Unidirectional
- High peak pulse current capability
- Operating voltage options: 5V to 170V

Mechanical Characteristics

- Package: DO-214AA (SMB)
- Case material: Molding compound, UL Flammability classification 94V-0
- Halogen Free, RoHS/WEEE Compliant
- Lead-Free Finish
- Marking: Marking code
- Packaging: Tape and Reel
- Low profile package
- Glass passivated junction

Schematic and Pin Configuration

