



SB520E-G thru SB5100E-G

"-G" : RoHS Device

Voltage Range: 20 to 100 V

Current: 5.0 A



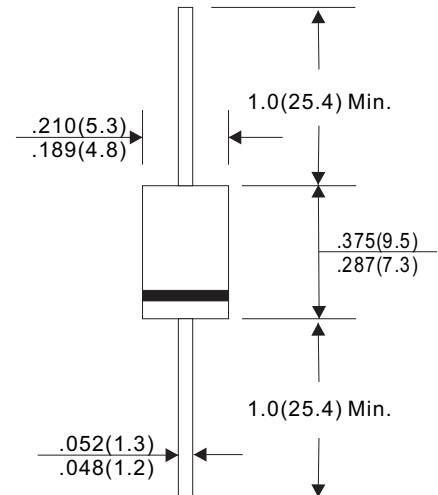
FEATURES

- Low drop down voltage
- 5.0A operation at $T_A=75^{\circ}\text{C}$ with no thermal runaway
- For use in low voltage, high frequency invertors free wheeling and polarity protection
- Silicon epitaxial planar chips
- Electrostatic discharge (ESD) test under IEC61000-4-2 standard: >15KV (air) & 8KV (contact)
- Lead-free part, meet RoHS requirements

MECHANICAL DATA

- Case: Molded plastic body DO-201AD
- Epoxy: UL94-V0 rated flame retardant
- Terminals: Solderable per MIL-STD-750 Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.04 ounces, 1.12 grams

DO-201AD



Unit :inch(mm)

MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

[illegible]

Note 1. Pulse test: 300 μ S pulse width, 1% duty cycle

1. Pulse test: 500ps pulse width, 1% duty cycle
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts

3. Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted 0.500" (12.7mm) lead length with 2.5x2.5" (63.5x63.5mm) copper pad.

RATINGS AND CHARACTERISTIC CURVES SB520E-G thru SB5100E-G

Fig.1 - Forward Current Derating Curve

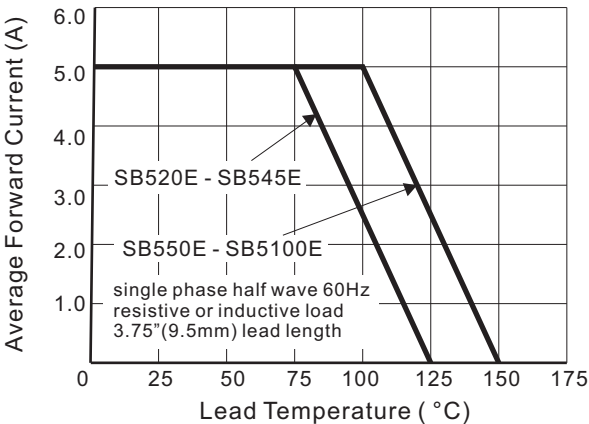


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

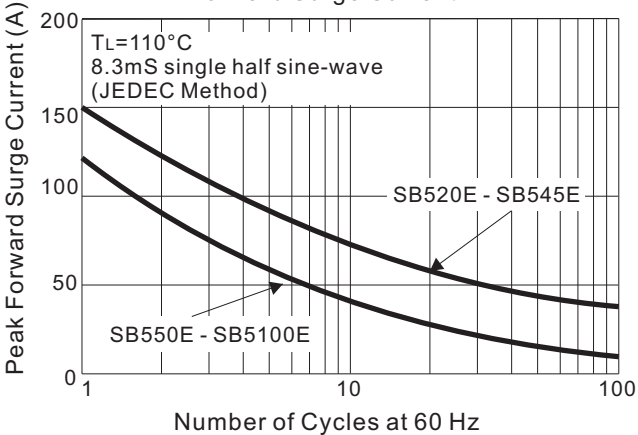


Fig. 3 - Typical Instantaneous Forward Characteristics

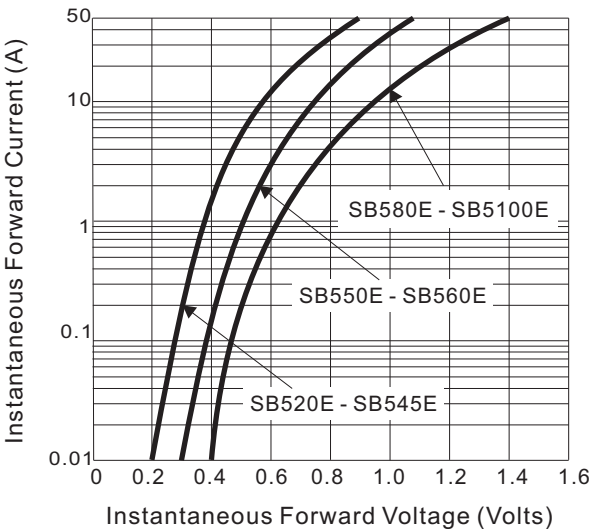


Fig. 4A - Typical Reverse Characteristics

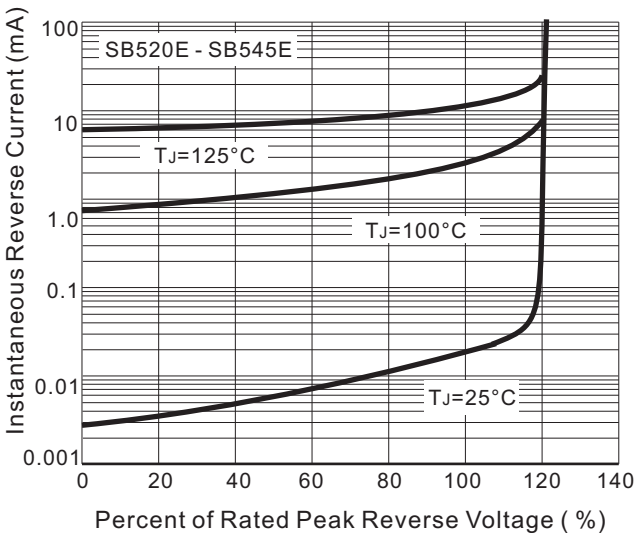


Fig. 5 - Typical Junction Capacitance

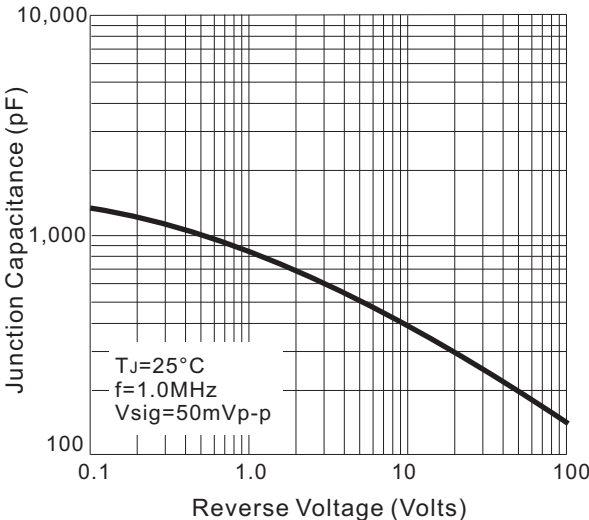


Fig. 4B - Typical Reverse Characteristic

