

B05S Thru B10S

Glass Passivated Type
Reverse Voltage: 50 - 1000 Volts
Forward Current: 0.5 Amp

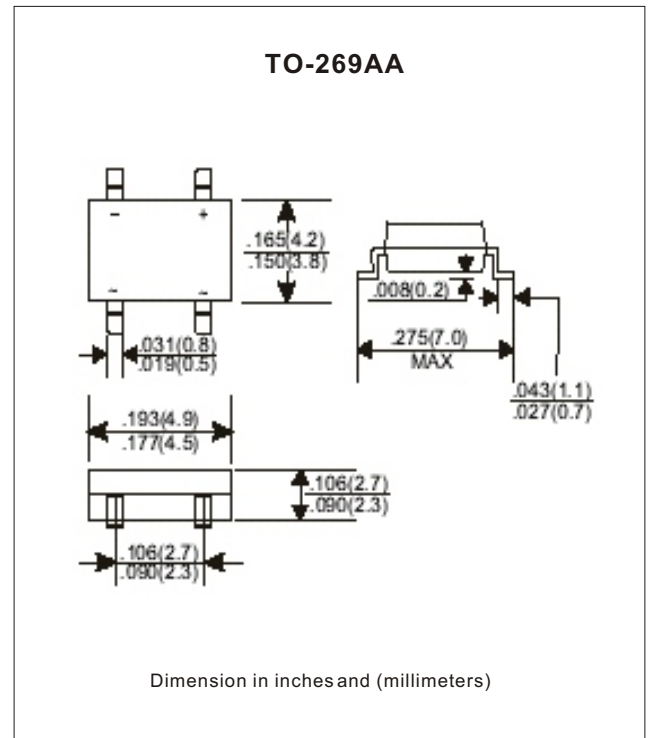


Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Built-in strain relief
- Glas passivated junction

Mechanical data

- Case: JEDEC DO-269AA molded plastic
- Terminals: solderable per MIL-STD-750, method 2026
- Polarity: Marked on body
- Mounting position: Any
- Approx. Weight: 0.22 gram



Maximum Ratings and Electrical Characteristics

| Parameter | Symbol | B05S | B1S | B2S | B4S | B6S | B8S | B10S | Unit |
|--|------------------|-------------|-----|-----|-----|-----|-----|------|------|
| Max. Repetitive Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Max. DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Max. RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rate load (JEDEC method) | I _{FSM} | 30 | | | | | | | A |
| Max. Average Forward Current | I _o | 0.5 | | | | | | | A |
| Max. Instantaneous Forward Current at 0.5 A | V _F | 1.0 | | | | | | | V |
| Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=125°C | I _R | 5 500 | | | | | | | uA |
| Max. Thermal Resistance (Note 1) | R _{θJA} | 85 | | | | | | | °C/W |
| Operating Junction Temperature | T _j | -55 to +150 | | | | | | | °C |
| Storage Temperature | T _{STG} | -55 to +150 | | | | | | | °C |

Note 1: Thermal resistance from junction to ambient.

Rating and Characteristic Curves (B05S thru B10S)

Fig. 1 - Reverse Characteristics

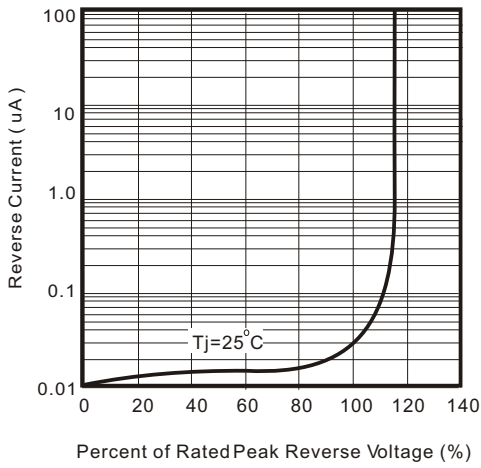


Fig. 2 - Forward Characteristics

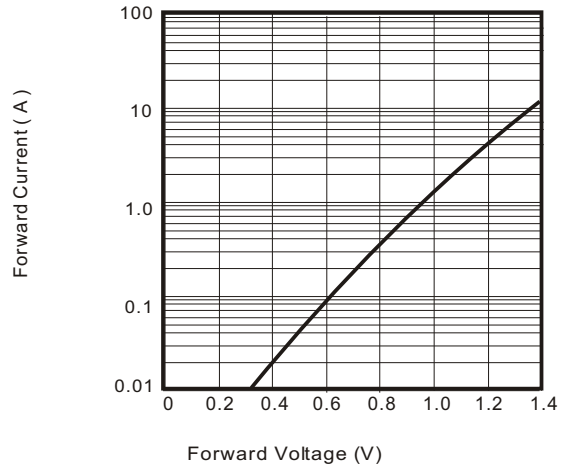


Fig. 3 - Non Repetitive Forward Surge Current

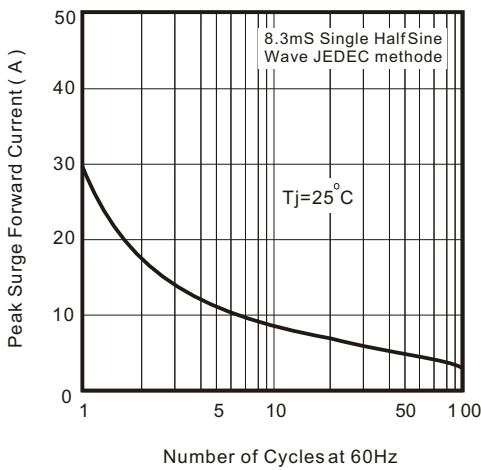


Fig. 4 - Current Derating Curve

