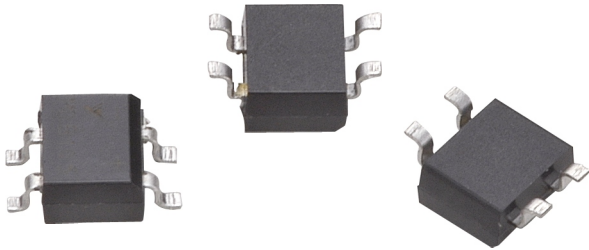


B1 thru B10

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS



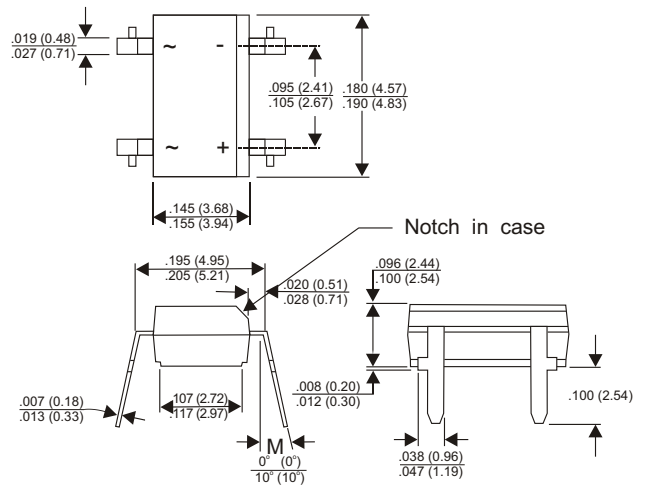
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead in plated copper

MECHANICAL DATA

- Polarity: Symbol molded on body
- Weight: 0.0044 ounces, 0.125 grams
- Mounting position: Any

REVERSE VOLTAGE -100 to 1000 Volts
FORWARD CURRENT -0.8 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| | | B1 | B2 | B4 | B6 | B8 | B10 | UNITS |
|---|-----------------|-------------|-----|-----|-----|-----|------|--------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input Voltage | V_{RMS} | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current (Note 1) @ $T_A=40^\circ\text{C}$ | $I_{(AV)}$ | 0.8 | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method) | I_{FSM} | 30 | | | | | | A |
| Maximum Forward Voltage at 0.4A DC | V_F | 1.0 | | | | | | V |
| Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at rated DC Blocking Voltage @ $T_J=125^\circ\text{C}$ | I_R | 5 500 | | | | | | μA |
| Typical Junction Capacitance per element (Note2) | C_J | 15 | | | | | | pF |
| Typical Thermal Resistance (Note3) | $R_{\theta JA}$ | 75 | | | | | | $^\circ\text{C/W}$ |
| Operating Temperature Range | T_J | -55 to +150 | | | | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | $^\circ\text{C}$ |

NOTES: 1. Mounted on P.C. Board.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal Resistance Junction to Ambient.

B1 thru B10

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS



RATING AND CHARACTERISTICS CURVES B1 THRU B10

Fig. 1 - FORWARD CURRENT DERATING CURVE

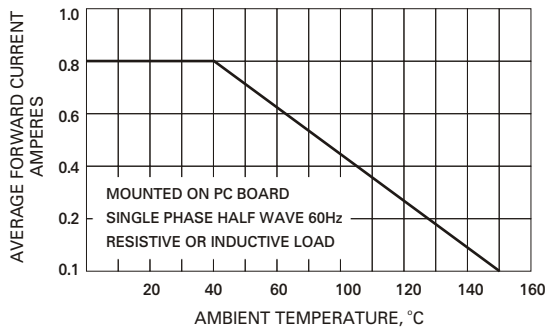


Fig. 2 - MAXIMUM NON-REPETITIVE
SURGE CURRENT

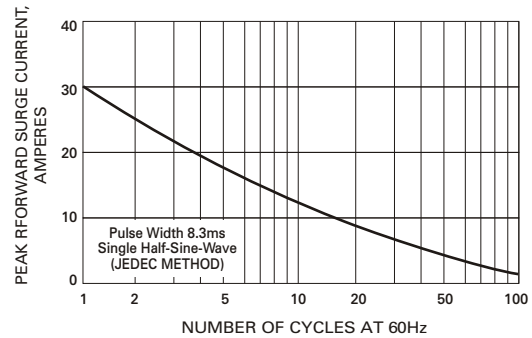


Fig. 5 - TYPICAL REVERSE CHARACTERISTICS

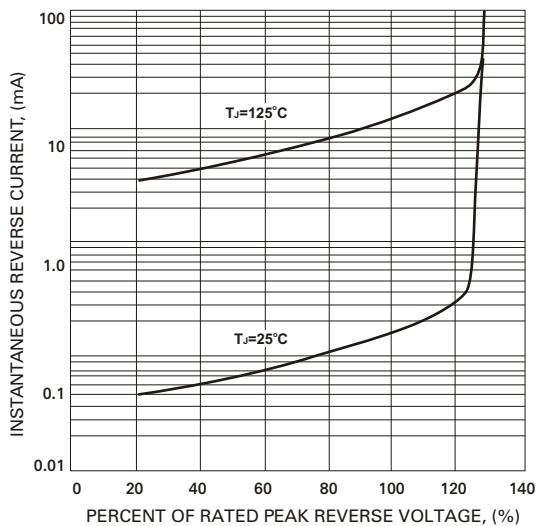


Fig. 4 - TYPICAL FORWARD CHARACTERISTICS

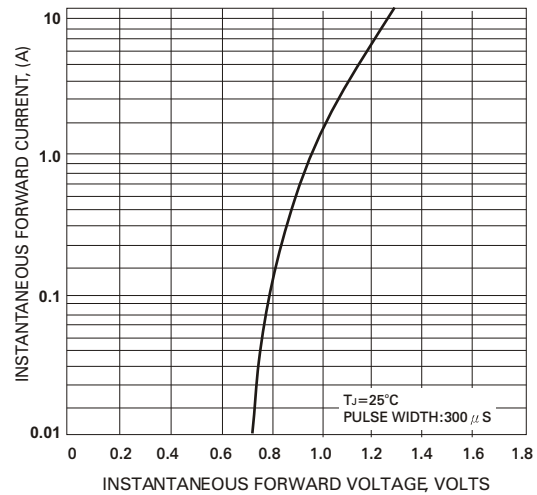


Fig. 3 - TYPICAL JUNCTION CAPACITANCE

