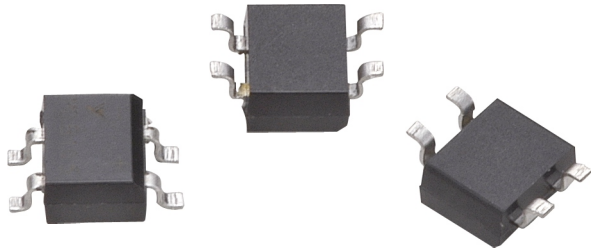


# B1 thru B10

## SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS



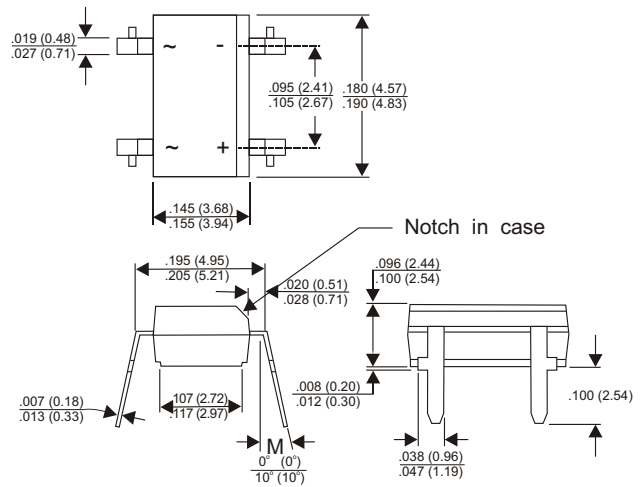
### FEATURES

- 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						$\mu\text{A}$
Typical Junction Capacitance per element (Note2)	$C_J$	15						pF
Typical Thermal Resistance (Note3)	$R_{\theta JA}$	75						$^\circ\text{C}/\text{W}$
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

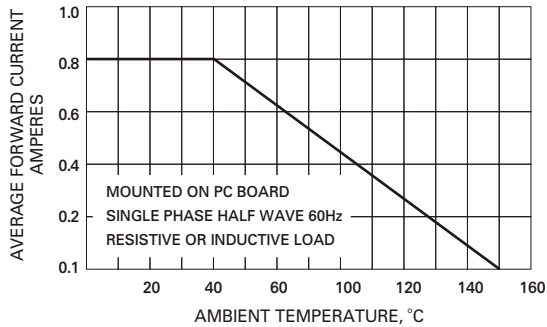


Fig. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

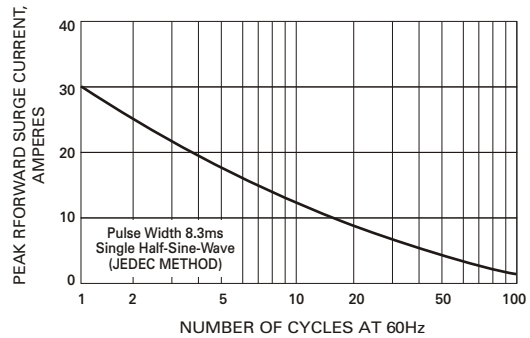


Fig. 5 - TYPICAL REVERSE CHARACTERISTICS

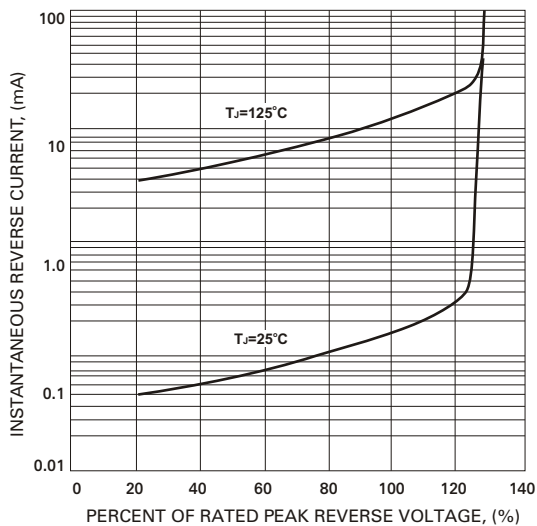


Fig. 4 - TYPICAL FORWARD CHARACTERISTICS

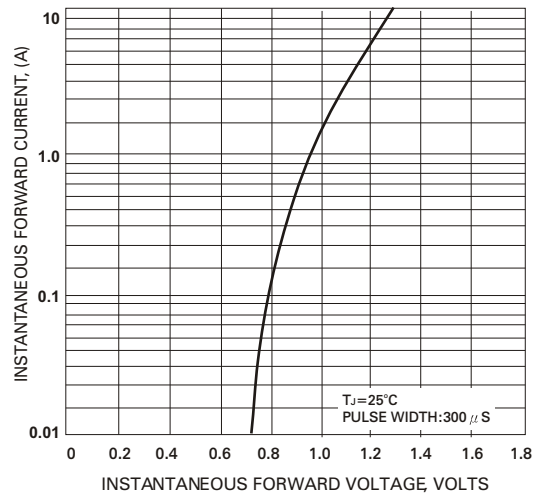


Fig. 3 - TYPICAL JUNCTION CAPACITANCE

