



B2M THRU B10M

Glass Passivated Bridge Rectifier

Features

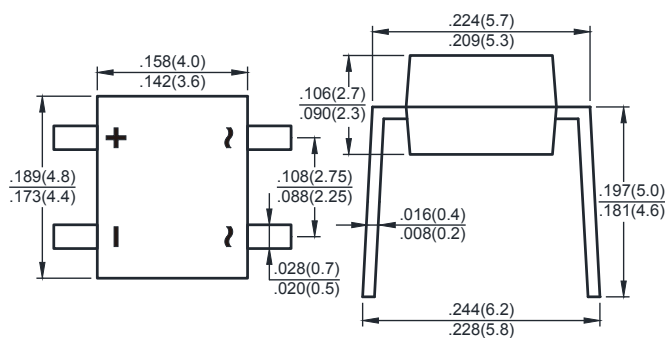
- ★ Glass passivated chip junction
- ★ High surge current capability
- ★ Low leakage
- ★ Ideal for printed circuit board

Mechanical Data

- ★ Case: Molded plastic, MBM
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-750, method 2026
- ★ Polarity: : Polarity symbols molded or marking on body
- ★ Mounting position: Any

Voltage Range 200 to 1000 V
Current 1.0 Ampere

MBM



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	B2M	B4M	B6M	B8M	B10M	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum average forward rectified current @ $T_A=25^\circ\text{C}$	$I_{F(AV)}$	1.0					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	30					A
Maximum instantaneous forward voltage @ $I_F=0.4\text{A}$	V_F	1.0					V
Maximum DC reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	I_R	10 200					μA
Typical junction Capacitance (Note 1)	C_J	13					pF
Typical thermal resistance from junction to ambient (Note 2)	$R_{\theta JA}$	85					$^\circ\text{C/W}$
Typical thermal resistance from junction to lead (Note 2)	$R_{\theta JL}$	20					$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150					$^\circ\text{C}$

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

(2) On glass epoxy P.C.B. mounted on 0.05" x 0.05" (1.3 mm x 1.3 mm) pads.

RATINGS AND CHARACTERISTICS CURVES B2M THRU B10M

Fig.1 - Forward Current Derating Curve

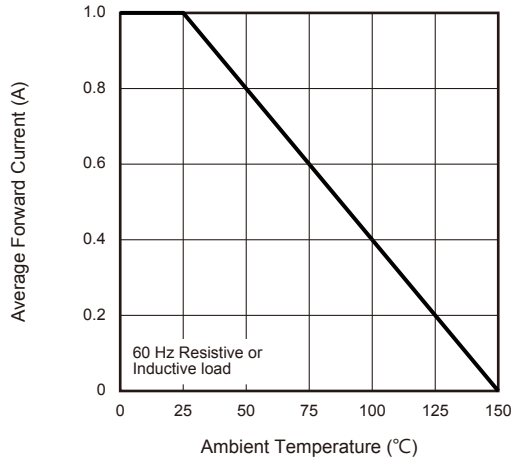


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

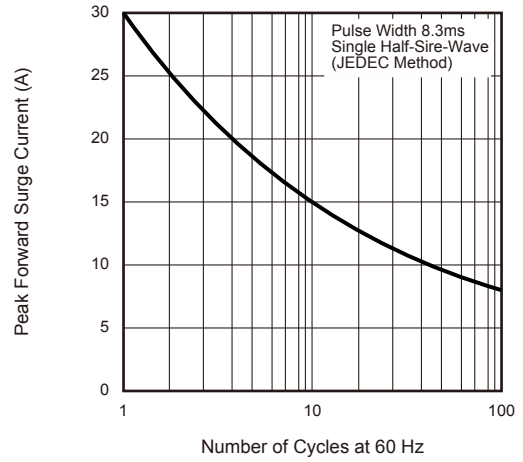


Fig.3 - Typical Instantaneous Forward Characteristics

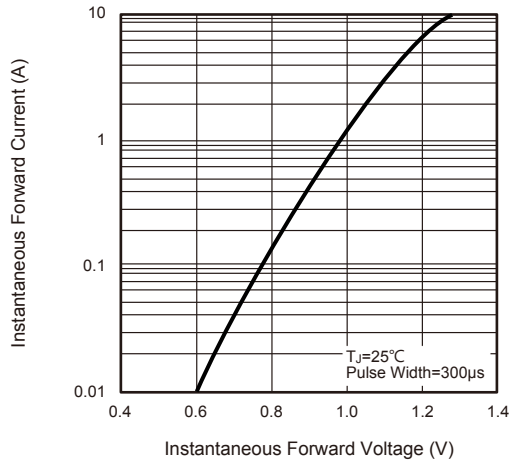


Fig.4 - Typical Reverse Leakage Characteristics

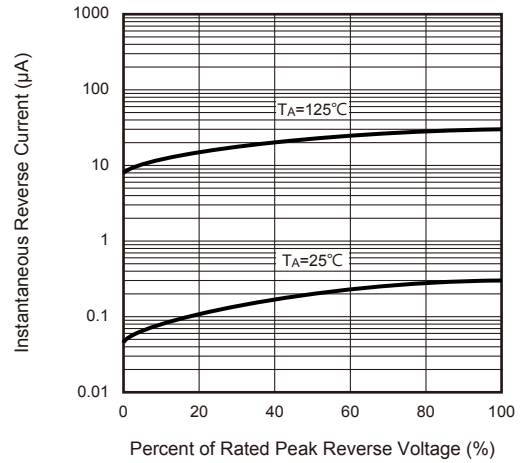


Fig.5 - Typical Junction Capacitance

