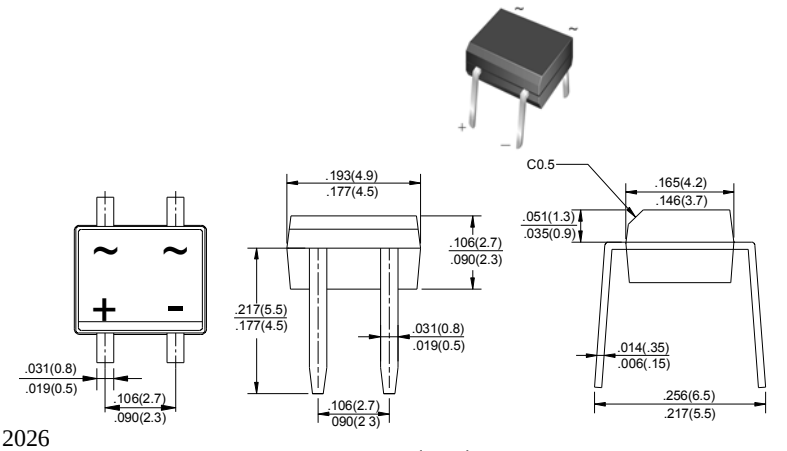
MB2M --- MB10M

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junctions
- High surge overload rating: 35A peak
- Saves space on printed circuit boards
- Recommended for non-automotive applications

Mechanical Data

- Case: Molded plastic body over passivated junctions
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026
- Mounting Position: Any



MBM Dimensions in inches and (millimeters)

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Maximum Ratings and Electrical Characteristics (Ta=25 ℃ unless otherwise noted)

Parameter	Symbols	MB2M	MB4M	MB6M	MB8M	MB10M	Units
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	Volts
Maximum average forward output rectified current (see Fig.1) on glass-epoxy P.C.B. on aluminum substrate	$I_{F(AV)}$	0.5 (1) 0.8 (2)					Amp
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35.0					Amps
Rating for fusing (t < 8.3ms)	I^2t	5.0					A^2sec
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F	1.0					Volt
Maximum DC reverse current at AT = 25ºC rated DC blocking voltage per leg AT = 125ºC	I_R	5.0 100					uA
Typical thermal resistance per leg	$R_{\theta JA}$ $R_{\theta JA}$ $R_{\theta JL}$	85 (1) 70 (2) 20 (1)					ºC/W
Typical junction capacitance per leg (3)	C_J	13					pF
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150					ºC

MB2M --- MB10M CHARACTERISTIC CURVES

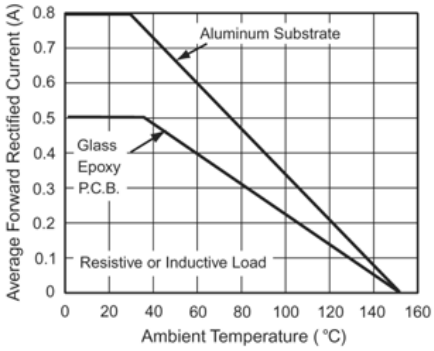


Figure 1. Derating Curve for Output Rectified Current

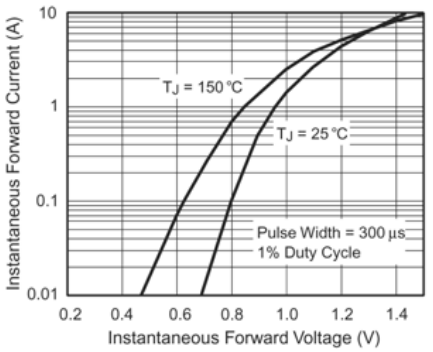


Figure 3. Typical Forward Voltage Characteristics Per Leg

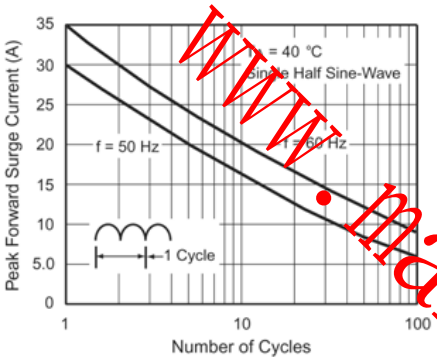


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

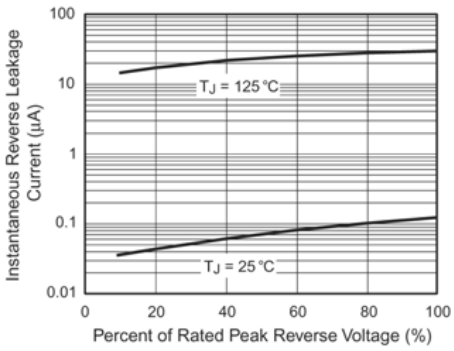


Figure 4. Typical Reverse Leakage Characteristics Per Leg

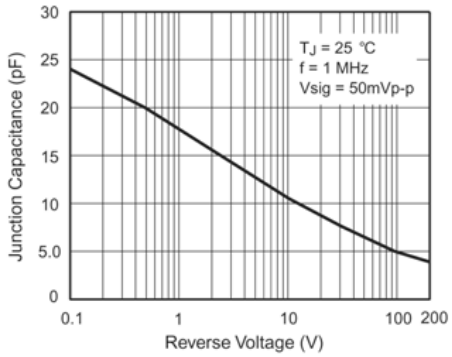


Figure 5. Typical Junction Capacitance Per Leg

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