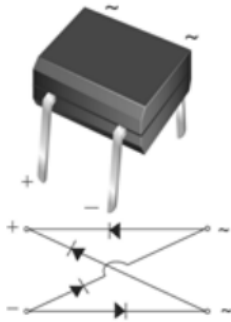


MBM



Features

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020
LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC
and WEEE 2002/96/WC
- UL recognition, file number E342874



Primary characteristics

$I_{F(AV)}$	0.8A
V_{RRM}	200V to 1000V
I_{FSM}	35A
I_{RM}	5 μ A
V_{FM} at $I_F=0.4A$	1.0V
T_J max.	150 °C

Applications

Ideal for ac-to-dc bridge full wave rectification such as SMPS, home appliances, office equipment, industrial automation applications

Mechanical data

- Case: MBM
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque: 10cm·kg(8.8 inches·lbs)max.
- Recommended Torque: 5.7 cm·kg(5 inches·lbs)

Maximum rating ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Sym	MBM					Unit
		MB102M	MB104M	MB106M	MB108M	MB110M	
Max. repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Max. RMS reverse voltage	V_{RMS}	140	280	420	560	700	V
Max. DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Max. average forward current	$I_{F(AV)}$	0.8					A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	35.0					A
Rating for fusing, $1\text{ms} \leq t \leq 8.3\text{ms}$	I^2t	5.0					A ² S
Max. instantaneous forward voltage drop per diode	V_{FM}	1 (0.4)					V
Max. instantaneous reverse current at rated DC blocking voltage	I_{RM}	5					μ A
		100					μ A
Operating junction temperature	T_J	-55 ~ +150					°C
Storage temperature	T_{STG}	-55 ~ +150					°C
Typical thermal resistance (Note1)	R _{J-A}	70					°C/W
	R _{J-L}	20					°C/W

Notes

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

Ordering information (Example)

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
MB110M				

Typical characteristics

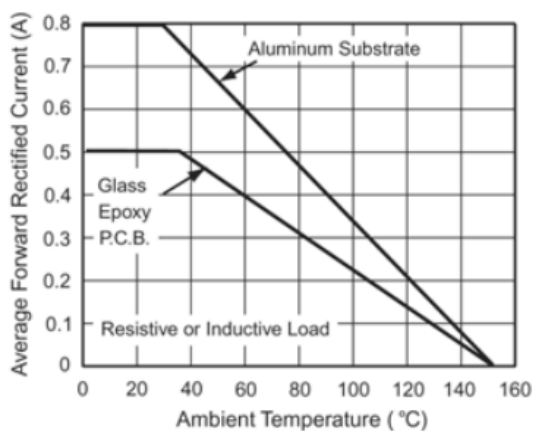


Figure 1. Derating Curve for Output Rectified Current

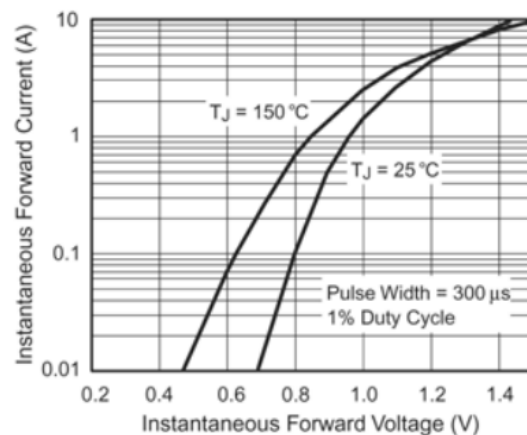


Figure 3. Typical Forward Voltage Characteristics Per Leg

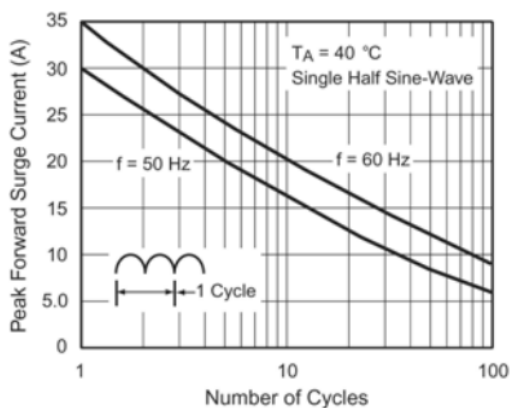


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

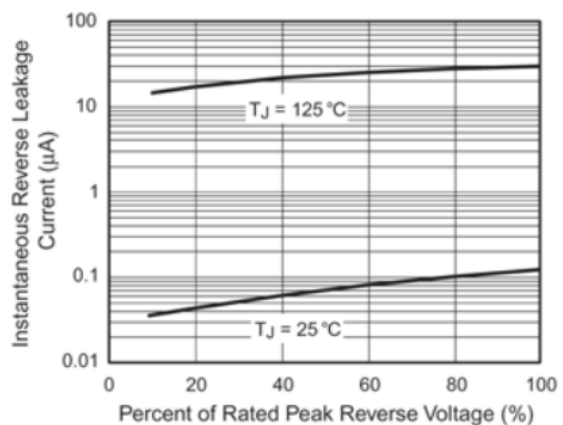
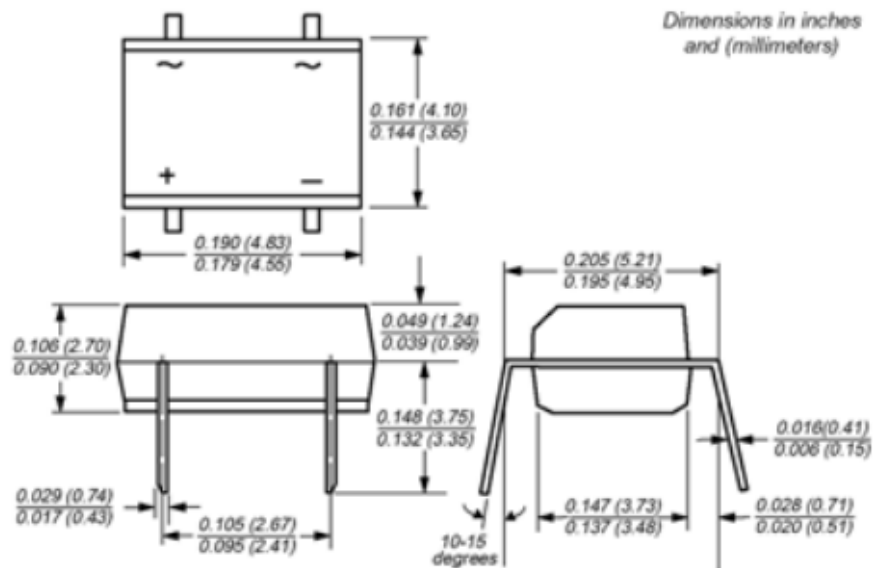


Figure 4. Typical Reverse Leakage Characteristics Per Leg

Package outline dimensions



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