

MBM		
Dim	Min	Max
A	4.40	4.80
B	3.40	3.80
C	2.35	2.65
E	0.15	0.35
F	4.60	5.20
I	0.50	0.80
J	5.70	6.30
K	2.30	2.70
L	5.40	5.90
All Dimensions in mm		

FEATURES

- Glass passivated chip junctions
- High surge overload rating: 35A peak
- Saves space on printed circuit boards
- Plastic material has U/L flammability classification 94V-0
- This series is UL recognized under Component Index, file number E239431
- High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs. (2.3kg) tension

MECHANICAL DATA

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

Maximum Ratings (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	MB2M	MB4M	MB6M	MB8M	MB10M	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RMS}	140	280	420	560	700	V
DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Maximum average forward Output current @T _A =25°C	I _{F(AV)}	0.5 ¹⁾			0.8 ²⁾		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	35					A
Current squared time t < 8.3ms , T _a = 25 C	I ² t	5.1					A ² s

Thermal Characteristics

Characteristic	Symbol	MB2M	MB4M	MB6M	MB8M	MB10M	UNITS
Typical junction capacitance per leg (NOTE 3)	C _J	13					p F
Typical thermal resistance per leg (NOTE 1)	R _{θJA}	85					°C/W
(NOTE 2)	R _{θJL}	20					
Operating junction temperature range	T _J	- 55 ----- + 150					°C
Storage temperature range	T _{STG}	- 55 ----- + 150					°C

Electrical Characteristics (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	MB2M	MB4M	MB6M	MB8M	MB10M	UNITS
Maximum instantaneous forward voltage at 0.4 A	V _F	1.0					V
Maximum reverse current @T _A =25°C	I _R	5.0					μ A
at rated DC blocking voltage @T _A =125°C		100					

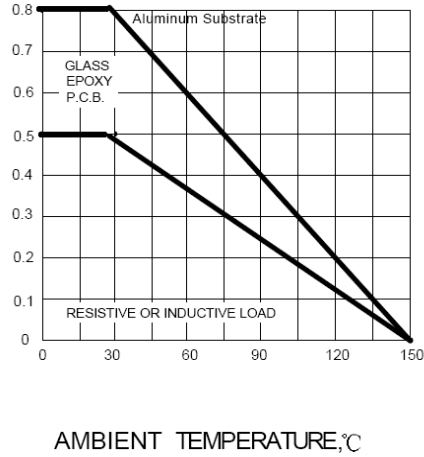
NOTES: (1) On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads

(2) On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

(3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

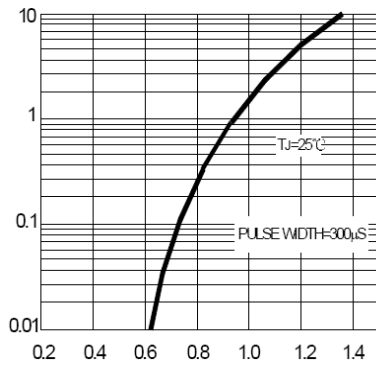
AVERAGE FORWARD CURRENT, AMPERES

FIG.1 – DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



INSTANTANEOUS FORWARD CURRENT, AMPERES

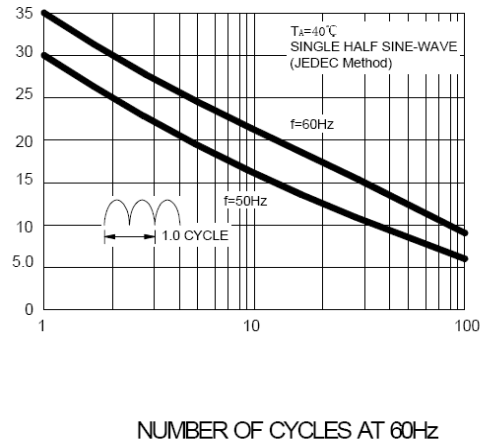
FIG.3 – TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

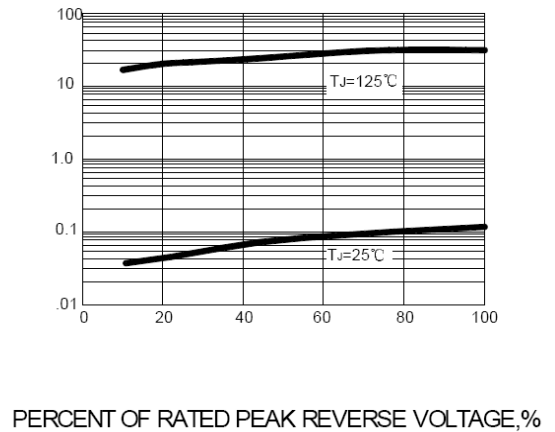
PEAK FORWARD SURGE CURRENT, AMPERES

FIG.2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG



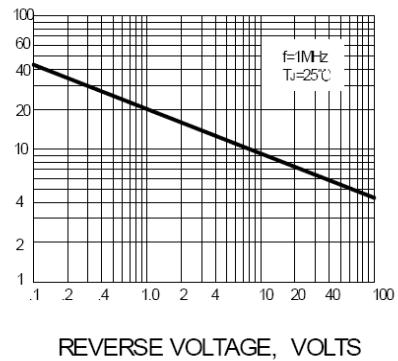
INSTANTANEOUS REVERSE CURRENT, MICRO AMPERES

FIG.4 – TYPICAL REVERSE CHARACTERISTIC



CAPACITANCE, pF

FIG.5 – TYPICAL JUNCTION CAPACITANCE PER ELEMENT



Device	Package	Shipping
MB2M--MB10M	MBM	100unit/pipe

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