



Single Phase 0.8Amp Glass passivated Bridge Rectifiers

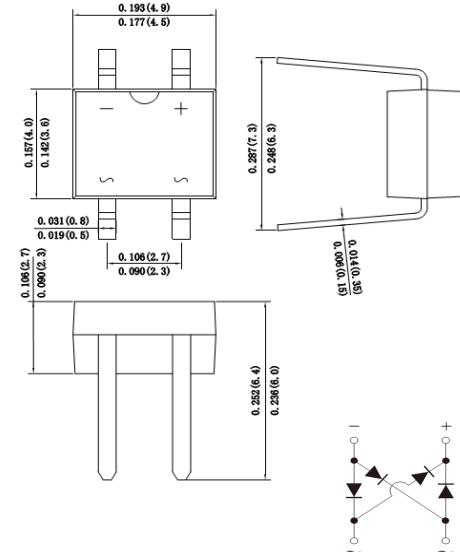
Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 260°C/10 seconds at terminals

MBM

RoHS
COMPLIANT

Pb
Pb-Free



Dimensions in inches and (millimeters)

Mechanical Data

- Case : Molded plastic body
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Polarity symbol marking on body
- Mounting Position : Any
- Weight : 0.0045 ounce, 0.127 grams

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 by 20%.

Parameter	Symbols	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T _A =100°C On glass-epoxy P.C.B (Note 1)	I _(AV)	0.8							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30.0							A
Rating for fusing (t=8.3ms, T _a =25°C)	I ² t	3.73							A ² s
Maximum instantaneous forward voltage at 0.8A	V _F	1.0							V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	2.0 200							uA
Typical junction capacitance (Note 2)	C _J	15.0							pF
Typical thermal resistance	R _{QJA}	72.0							°C/W
Operating junction and storage temperature range	T _{J,TSTG}	-55 to +150							°C

Note: 1.Mounted on glass epoxy PC board with 1.3*1.3mm solder pad

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.



Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

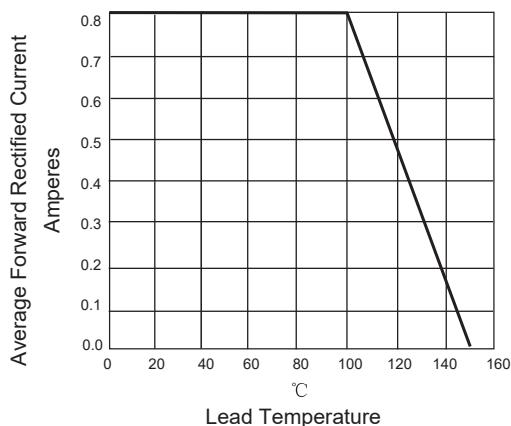


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

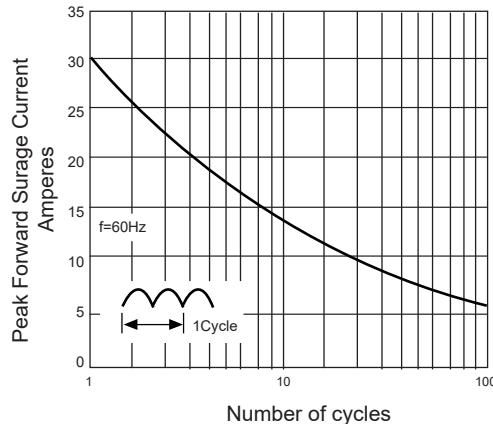


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

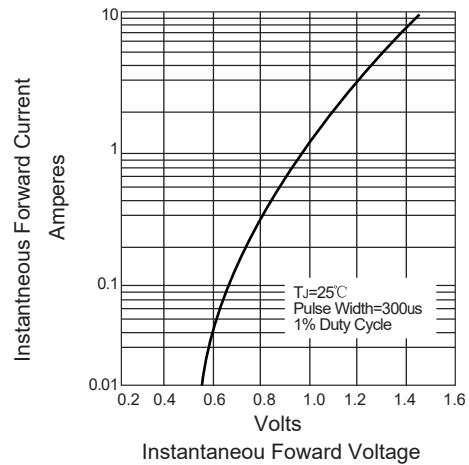
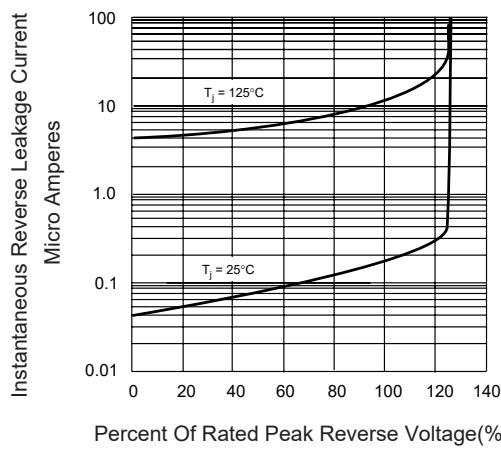
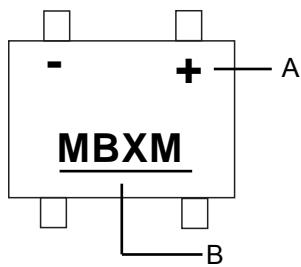


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



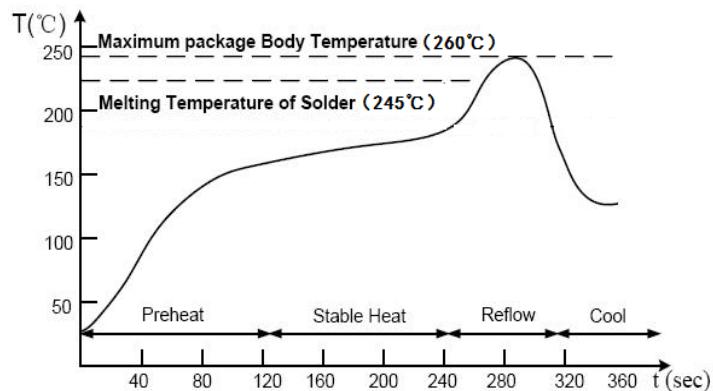
Marking



Symbol	Explanation
A	Polarity Symbol
B	Product Name,X : 05.1.....10



Suggested Soldering Temperature Profile



Note

- Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.
- The device can be exposed to a maximum temperature of 260°C for 10 seconds.
- Devices can be cleaned using standard industry methods and solvents.
- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Package Information

Tube Package

Package	Tube (mm)	Q'TY/Tube (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
MBM	505*8.5*8.5	0.1	515*150*45	5.0	530*245*163	25