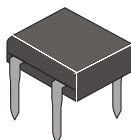


MB05M THRU MB10M

MINI GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIERS



FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin plated copper
- Lead Free Finish/RoHS Compliant

MECHANICAL DATA

- Polarity: Symbol molded on body
- Weight: 0.1497 grams
- Mounting position :Any

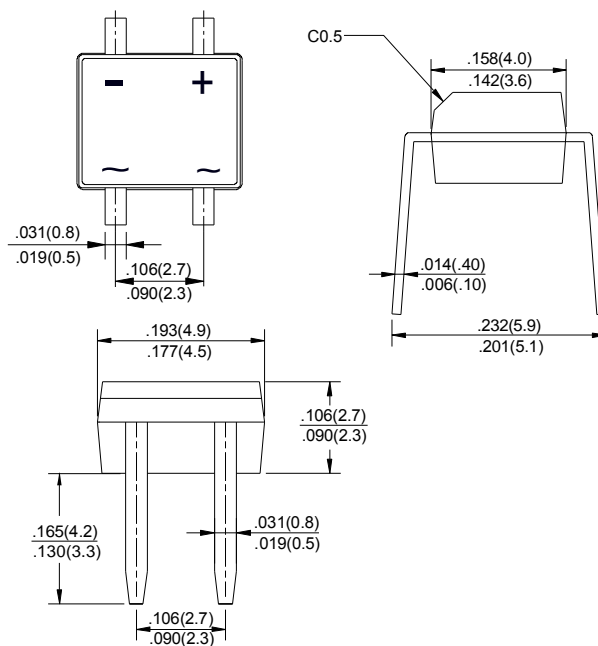
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

0.8 Ampere

MB-1



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%

CHARACTERISTICS	SYMBOL	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	UNIT
Maximum Recurrent 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 (Note 1) @T _A =40 °C	I(AV)	0.8							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	30							A
Peak Forward Voltage at 0.4A DC	V _F	1.1							V
Maximum DC Reverse Current @T _J =25°C at Rated DC Bolcking Voltage @T _J =125°C	I _R	10.0 500							μA
Typical Junction Capacitance Per Element (Note2)	C _J	15							pF
Typical Thermal Resistance (Note3)	R _{JC}	75							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES:1.Mounted on P.C. board.

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3.Thermal resistance junction to case.

RATING AND CHARACTERISTIC CURVES

MB05M thru MB10M

FIG.1-FORWARD CURRENT DERATING CURVE

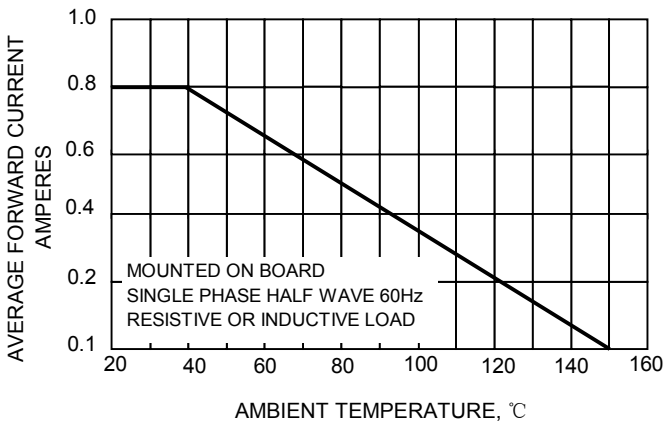


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

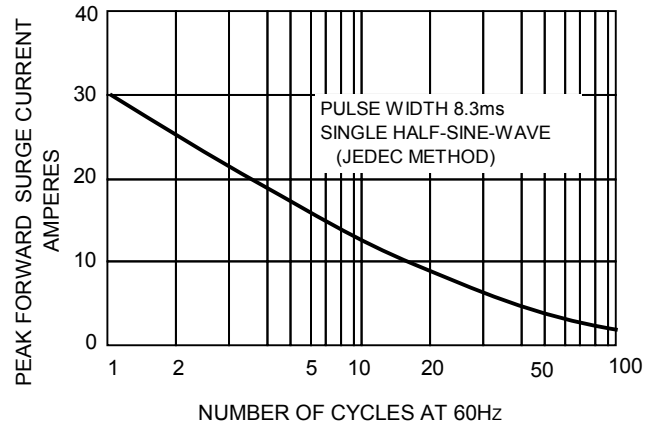


FIG.3-TYPICAL REVERSE CHARACTERISTICS

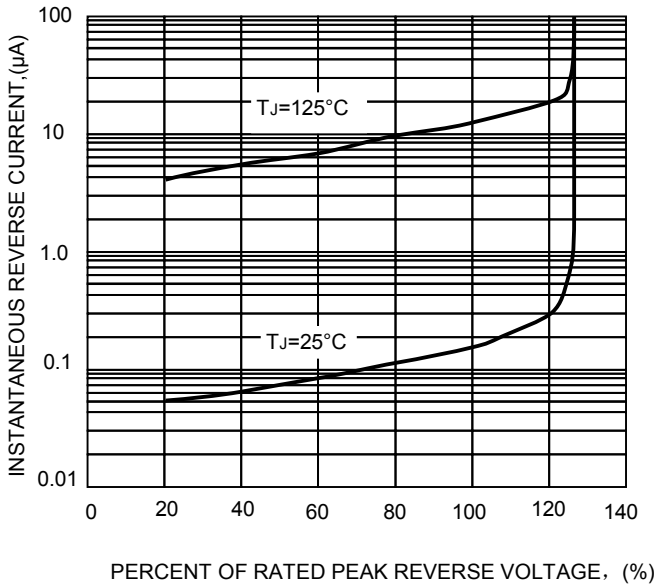


FIG.4-TYPICAL FORWARD CHARACTERISTICS

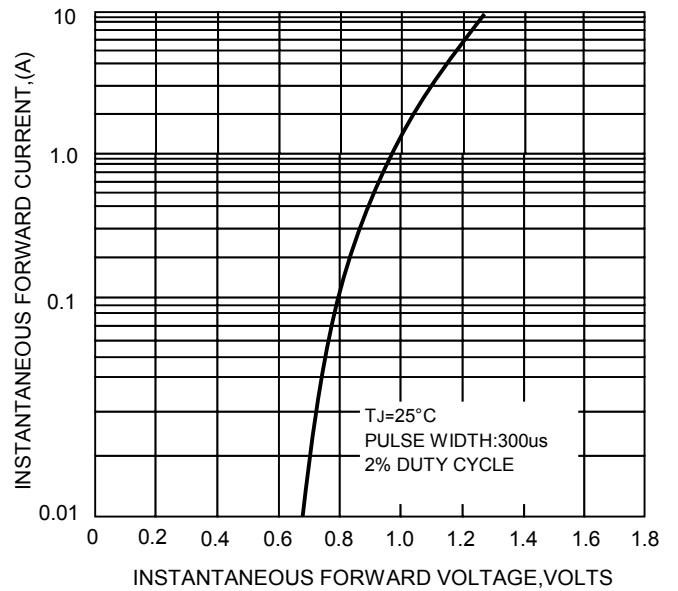


FIG.5-TYPICAL JUNCTION CAPACITANCE

