

MBS2 - MBS10





Features

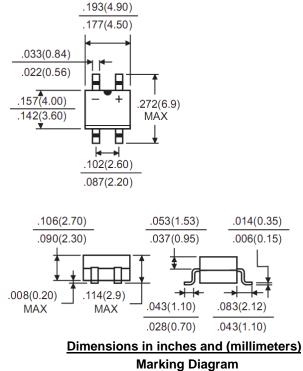
♦ UL Recognized File # E-326243

ROHS COMPLIANCE

- ♦ Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- ♦ High surge current capability
- ↔ High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs., (2.3kg) tension
- ♦ Small size, simple installation
- Green compound with suffix "G" on packing code & prefix "G" on datecode



- ♦ Case: Molded plastic body
- ♦ Terminal: Leads solderable per MIL-STD-202 Method 208
- ♦ Weight: 0.123 grams



Single Phase 0.8 AMP Glass Passivated Bridge Rectifiers MBS

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MBSX	= Specific Device Code
G	= Green Compound
Y	= Year
М	= Work Month
	G Y

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	MBS2	MBS4	MBS6	MBS8	MBS10	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current On glass-epoxy P.C.B. On aluminum substrate	I _{F(AV)}	0.5 0.8					A
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	35					А
Maximum Instantaneous Forward Voltage (Note 1) @ 0.4A	V _F	1.00					V
Maximum DC Reverse Current $T_A=25 \degree$ Cat Rated DC Blocking Voltage $T_A=125 \degree$ C	I _R	5 100					uA
Typical Junction Capacitance Per Leg (Note 2)	Cj	13					pF
(Note 3) Typical Thermal Resistance (Note 4) (Note 3)	R _{θjA} R _{θjA} R _{θjL}	85 70 20					°C/W
Operating Temperature Range	TJ	- 55 to + 150					°C
Storage Temperature Range	T _{STG}	- 55 to + 150					°C

Note 1: Pulse Test with PW=300 usec,1% Duty Cycle

Note 2: Measure at 1.0MHz and Applied Reverse Voltage of 4.0 Volts D.C.

Note 3: On glass epoxy P.C.B. mounted on 0.05" x 0.05" (1.3mm x 1.3mm) pads

Note 4: On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20mm x 20mm) mounted on 0.05" x 0.05" (1.3mm x 1.3mm) solder pads



RATINGS AND CHARACTERISTIC CURVES (MBS2 THRU MBS10)

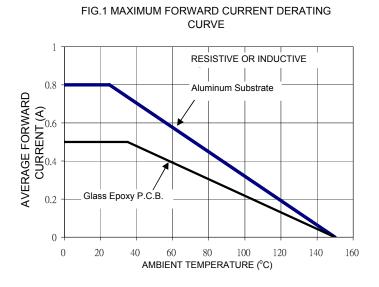


FIG. 2 TYPICAL REVERSE CHARACTERISTICS PER LEG

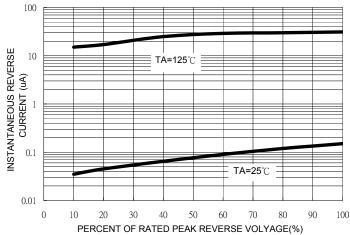


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG Single Half Sine-Wave (JEDEC Method)

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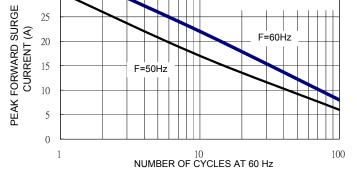


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

