

Single Phase 0.8 AMP Glass Passivated Bridge Rectifiers **MBS**





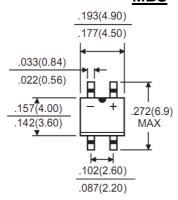


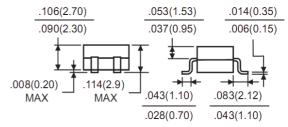
Features

- UL Recognized File # E-326243
- 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

Mechanical Data

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





Dimensions in inches and (millimeters)

Marking Diagram



MBSX = Specific Device Code G = Green Compound

Υ = Year Μ = Work Month

Maximum Ratings and Electrical Characteristics

Rating at 25 °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					А
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	35					Α
Maximum Instantaneous Forward Voltage (Note 1) @ 0.4A	V _F	1.0					V
	I _R	5 100					uA
Rating of fusing (t<8.3ms)	I ² T	5.08					A^2S
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					οС
Storage Temperature Range	T _{STG}	- 55 to + 150					οС

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

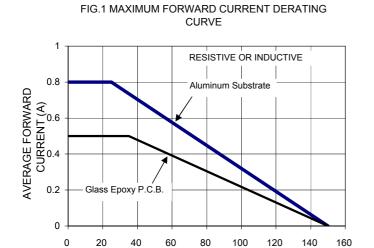
Note 2: Measure at 1.0MHz and Applied Reverse Voltage of 4.0 Volts D.C.

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

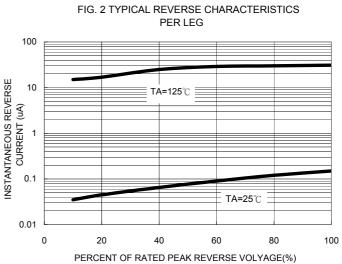
Note 4: On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20mm x 20mm) mounted on 0.05" x 0.05" (1.3mm x 1.3mm) solder pads

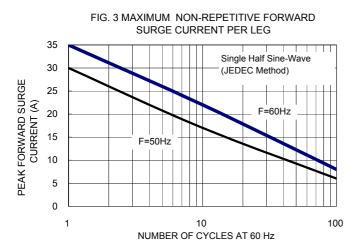


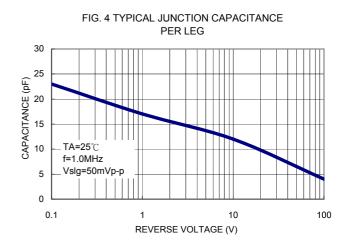
RATINGS AND CHARACTERISTIC CURVES (MBS2 THRU MBS10)

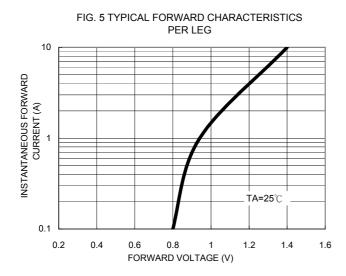


AMBIENT TEMPERATURE (°C)









Version:I12