

Pb





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

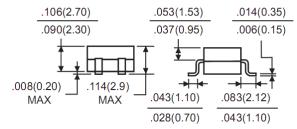
Mechanical Data

Case: Molded plastic body

 Terminal: Leads solderable per MIL-STD-202 Method 208

♦ Weight: 0.123 grams

.033(0.84) .022(0.56) .157(4.00) .142(3.60) .102(2.60) .087(2.20)



Single Phase 0.8 AMP Glass Passivated Bridge Rectifiers MBS

Dimensions in inches and (millimeters)

Marking Diagram



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					А
Maximum Instantaneous Forward Voltage (Note 1) @ 0.4A	V _F	1.00					V
$\begin{array}{ll} \mbox{Maximum DC Reverse Current} & T_{\mbox{\scriptsize A}} = 25 \ ^{\circ}\!$	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 _{ejA} R _{ejA} R _{ejL}	85 70 20					°C/W
Operating Temperature Range	T_J	- 55 to + 150					οС
Storage Temperature Range	T_{STG}	- 55 to + 150					οС

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

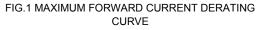
Note 2: Measure at 1.0MHz and Applied Reverse Voltage of 4.0 Volts D.C.

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)



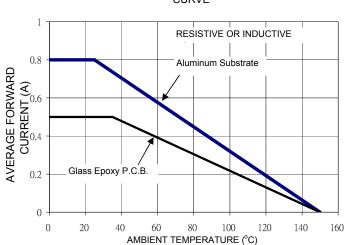


FIG. 2 TYPICAL REVERSE CHARACTERISTICS
PER LEG

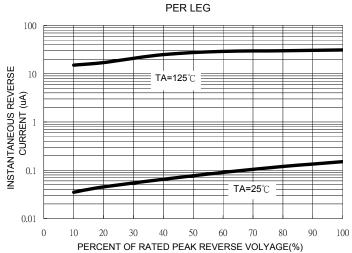


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

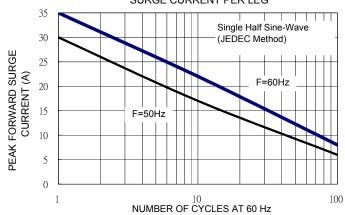


FIG. 4 TYPICAL JUNCTION CAPACITANCE PER LEG

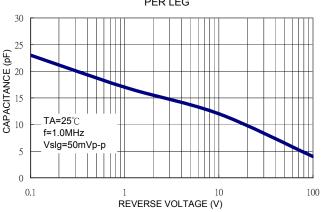


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

