GSB22M

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER

VOLTAGE: 1000V **CURRENT: 2.2A**

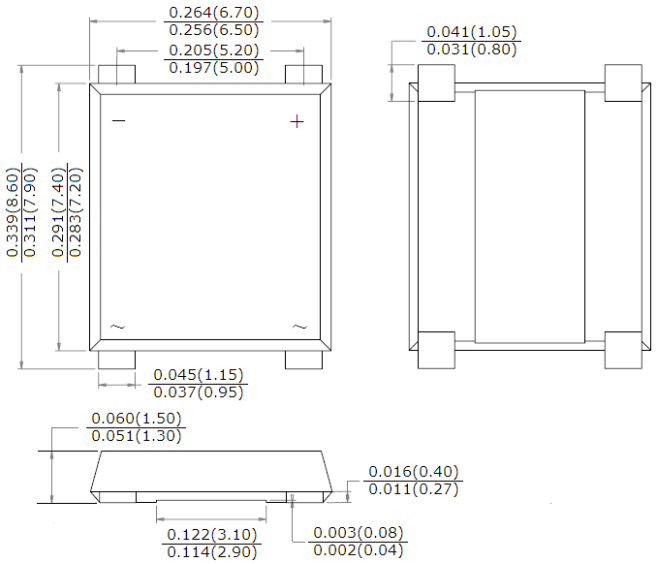
FEATURE

Ideal for SMT manufacturing
Glass passivated chip
Compact, thin profile package design
Reliable low cost construction utilizing molded plastic technique
High surge current capability
High temperature soldering guaranteed: 260℃/10 seconds
This series is UL listed under Recognized Component Index, file number E481337

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
Case:UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Marking: GB22M

MSBL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated)

	Symbol	GSB22M	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1000	V
Maximum RMS Voltage	Vrms	700	V
Maximum DC blocking Voltage	VDC	1000	V
Maximum average forward rectified output current	If(av)	2.2	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	90	A
Rating for fusing(t＜8.3ms)	I^2t	33.6	A^2sec
Maximum Instantaneous Forward Voltage at 1.1A	Vf	1.02	V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	5.0 100.0	μA
Typical Thermal resistance Junction to case (Note 1)	Rth(jc)	9.6	℃/W
Typical Junction Capacitance per element (Note 2)	Cj	35	pF
Storage and Operating Junction Temperature Range	Tstg, Tj	-55 to +150	℃

Note:
1. Unit mounted on glass-epoxy substrate with 1oz/ft2_20×20mm copper pad per pin with 1oz/ft2_20×20mm copper pad per pin
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

RATINGS AND CHARACTERISTIC CURVES GSB22M

Fig. 1 - Derating Curve Output Rectified Current

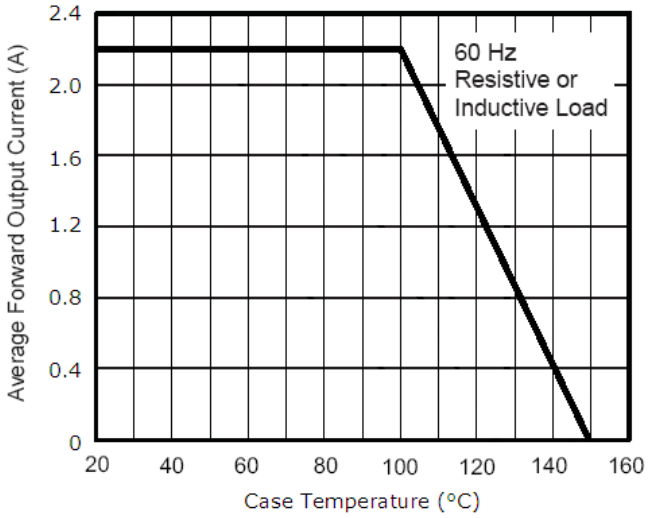


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

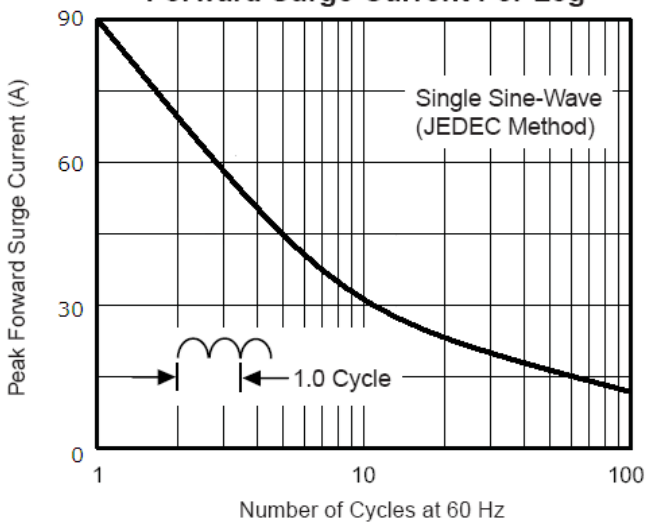


Fig. 3 - Typical Forward Characteristics Per Leg

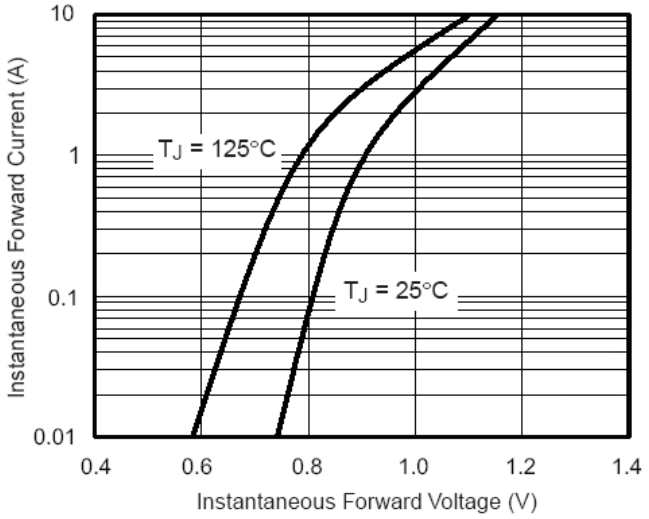


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

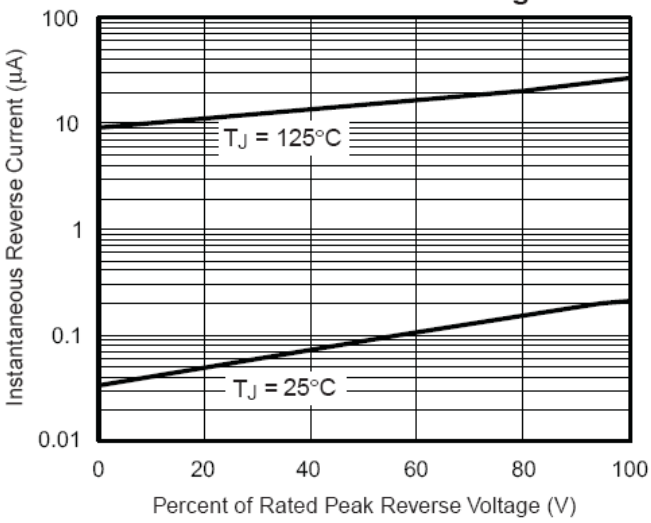


Fig. 5 - Typical Junction Capacitance Per Leg