

GSB22M-E

**SINGLE PHASE GLASS PASSIVATED
SURFACE MOUNT BRIDGE RECTIFIER**
VOLTAGE: 1000V **CURRENT: 2.2A**

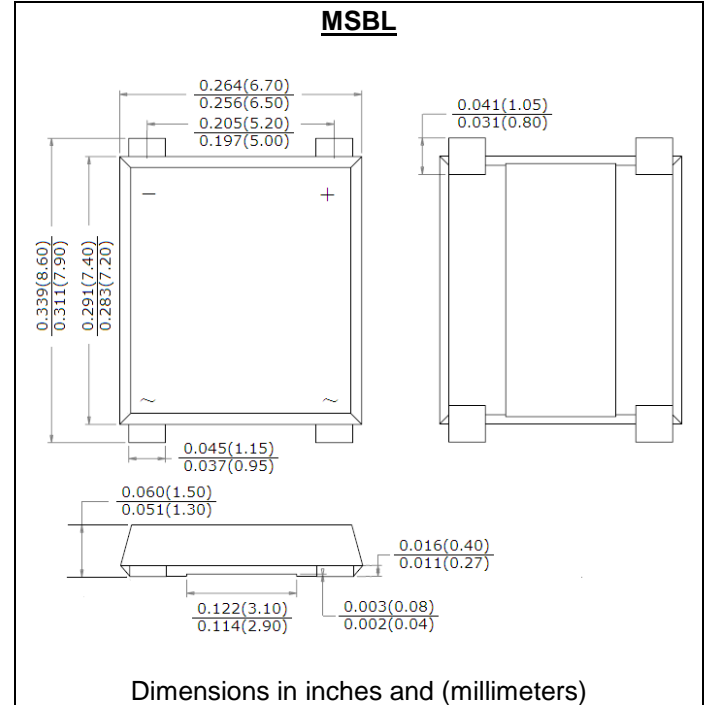


FEATURE

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°C/10 seconds
This series is UL listed under Recognized Component Index, file number E481337
Halogen Free

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbol	GSB22M-E	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	1000	V
Maximum RMS Voltage	V _{rms}	700	V
Maximum DC blocking Voltage	V _{DC}	1000	V
Maximum average forward rectified output current	I _{f(av)}	2.2	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	90	A
Rating for fusing(t<8.3ms)	I ² t	33.6	A ² sec
Maximum Instantaneous Forward Voltage at 1.1A	V _f	1.02	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	5.0 100.0	μA
Typical Thermal resistance Junction to case (Note 1)	R _{th(jc)}	9.6	°C/W
Typical Junction Capacitance per element (Note 2)	C _j	35	pF
Storage and Operating Junction Temperature Range	T _{stg} , T _j	-55 to +150	°C

Note:

- Unit mounted on glass-epoxy substrate with 1oz/ft² 20×20mm copper pad per pin with 1oz/ft² 20×20mm copper pad per pin
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

Fig. 1 - Derating Curve Output Rectified Current

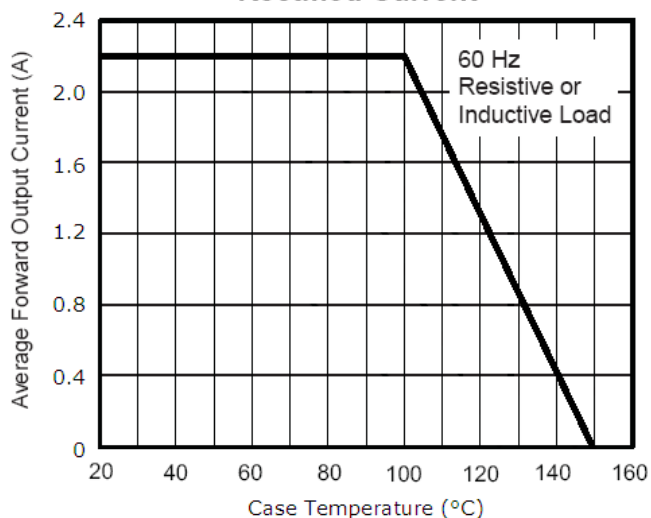


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

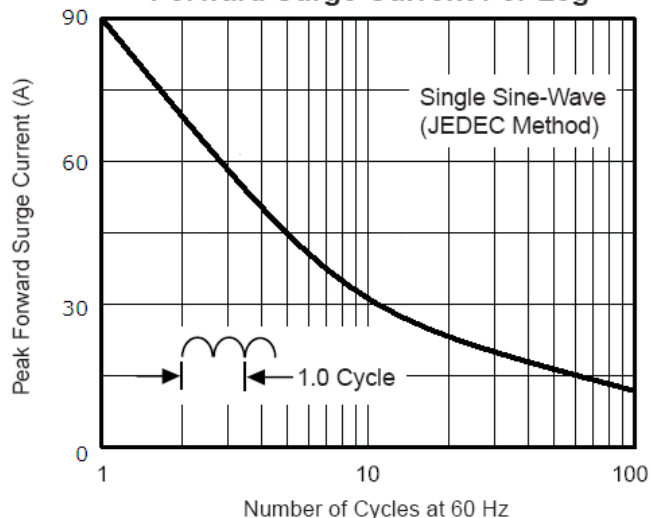


Fig. 3 - Typical Forward Characteristics Per Leg

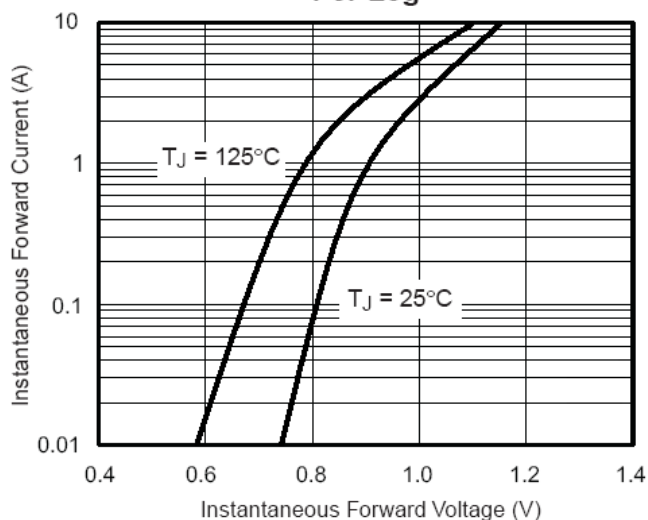


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

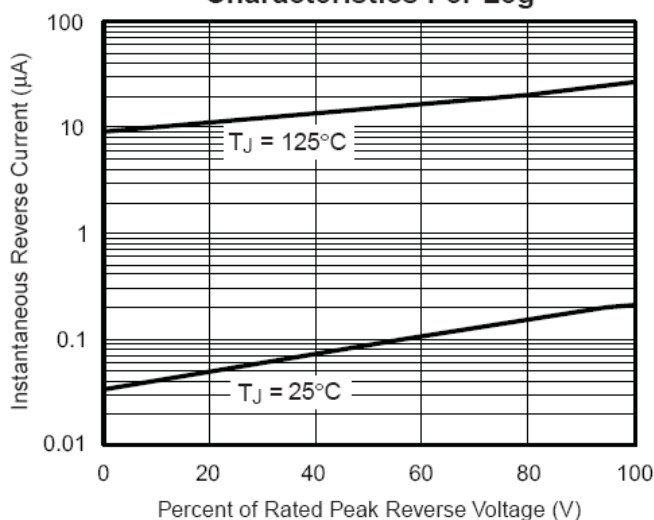


Fig. 5 - Typical Junction Capacitance Per Leg

