

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

G2SB20 THRU G2SB100

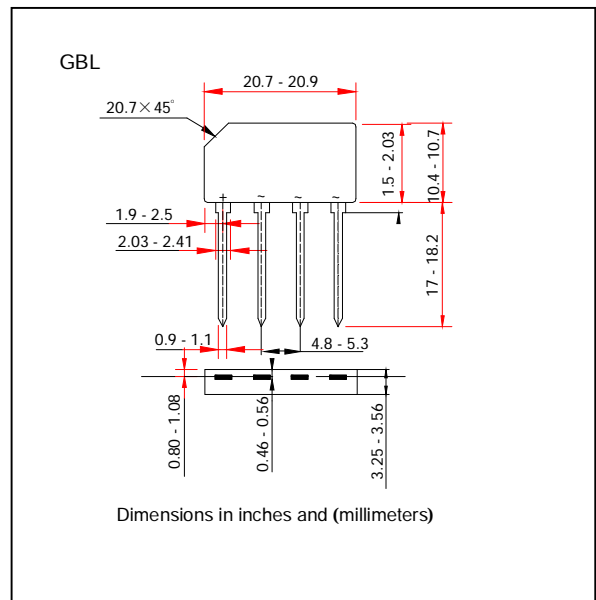
VOLTAGE RANGE 200 to 1000 Volts
CURRENT 1.5 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High case dielectric strength
- Typical I_r less than 0.1 A
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed:
 $260^\circ\text{C}/10$ seconds, 0.375" (9.5mm) lead length
 5lbs. (2.3kg) tension

MECHANICAL DATA

- Case: molded plastic body over passivated junctions
- Terminal: Plated leads solderable per MIL-STD-750 Method 2026
- Mounting position: Any
- Weight: 0.071 oz, 2.0g



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	G2SB20	G2SB60	G2SB80	G2B100	UNIT
Maximum Reverse Peak Repetitive Voltage	V_{RRM}	200	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	140	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	200	600	800	1000	Volts
Maximum Average Forward Rectified Output Current At $T_C=80^\circ\text{C}$ (Note 1) $T_A=25^\circ\text{C}$	$I_{(AV)}$	2.0 1.5				Amps
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80				Amps
Maximum Instantaneous Forward drop Per leg At 0.75 Amperes	V_F	1.00				Volts
Maximum Reverse Current at rated DC blocking voltage per element	$T_A=25^\circ\text{C}$	I_R	5.0			μA
	$T_A=125^\circ\text{C}$		300			
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	27				A^2s
Typical Thermal Resistance Per Leg	$R_{\theta JA}$	40				$^\circ\text{C}/\text{W}$
	$R_{\theta JC}$	12				
Operating Junction Storage and Temperature Range	T_J, T_{STG}	-55 to +150				$^\circ\text{C}$

Notes: 1. Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5×0.5 " ($12 \times 12\text{mm}$) copper pads

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CURRENT

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RATINGS AND CHARACTERISTIC CURVES G2SB20 THRU G2SB100

FIG. 1- DERATING CURVE
OUTPUT RECTIFIED CURRENT

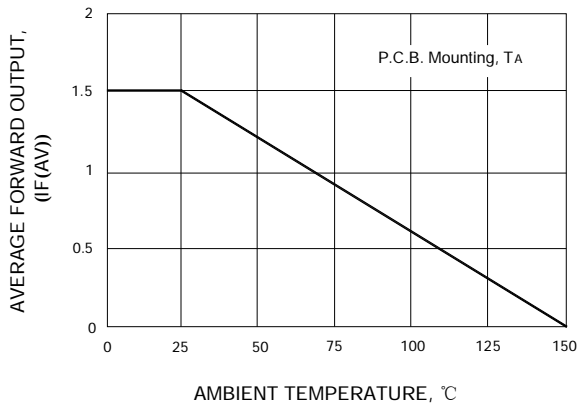


FIG. 2- MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER LEG

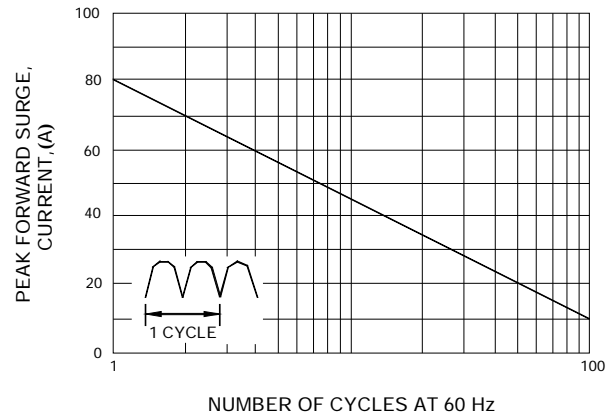


FIG. 3- TYPICAL FORWARD CHARACTERISTICS
PER LEG

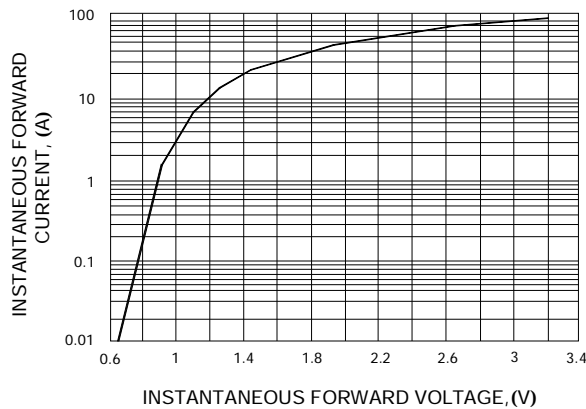


FIG. 4- TYPICAL REVERSE CHARACTERISTICS
PER LEG

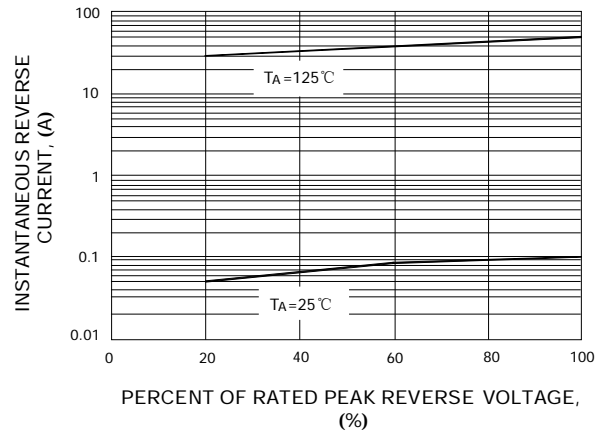


FIG. 5- TYPICAL JUNCTION CAPACITANCE
PER LEG

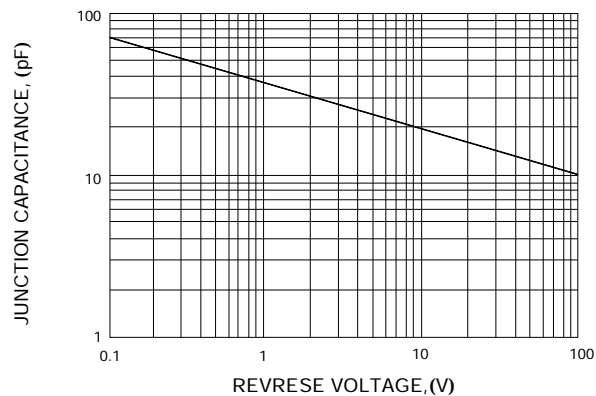


FIG. 6- TYPICAL TRANSIENT THERMAL
IMPEDANCE

