



GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

G2SBA20 THRU G2SBA100

VOLTAGE RANGE

200 to 1000 Volts

CURRENT

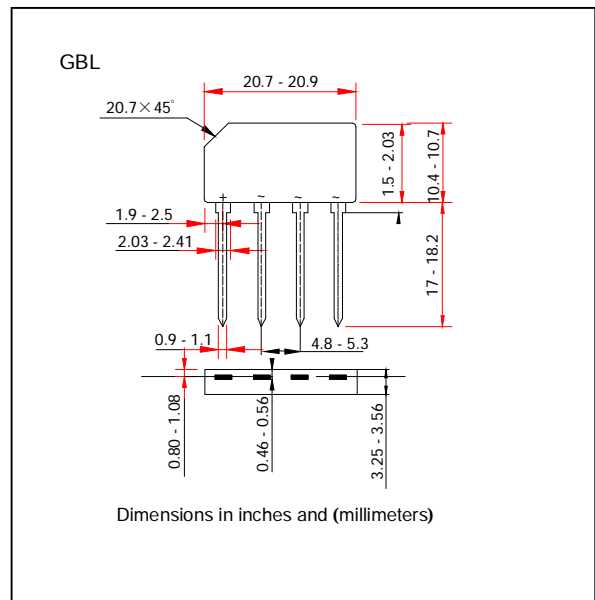
1.5 Amperes

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°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	G2SBA20	G2SBA60	G2SBA80	G2BA100	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}			60		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	I_R			5.0 300		μA
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t			15		A^2s
Typical Thermal Resistance Per Leg	$R_{\theta JA}$ $R_{\theta JC}$			40 12		$^\circ\text{C}/\text{W}$
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 x 0.5" (12 x 12mm) copper pads



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RATINGS AND CHARACTERISTIC CURVES G2SBA20 THRU G2SBA100

FIG. 1- DERATING CURVE
OUTPUT RECTIFIED CURRENT

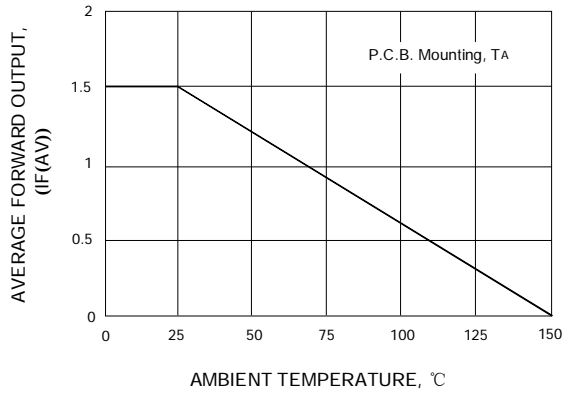


FIG. 2- MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER LEG

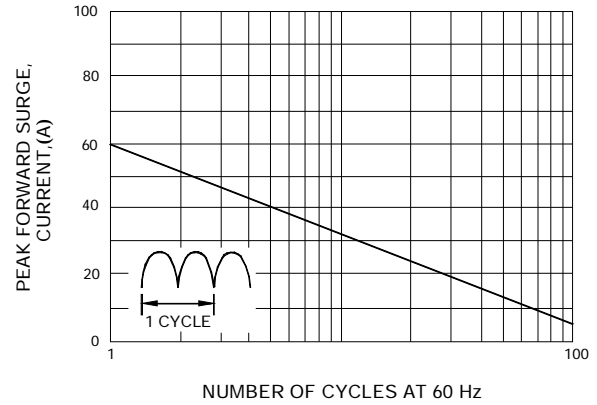


FIG. 3- TYPICAL FORWARD CHARACTERISTICS
PER LEG

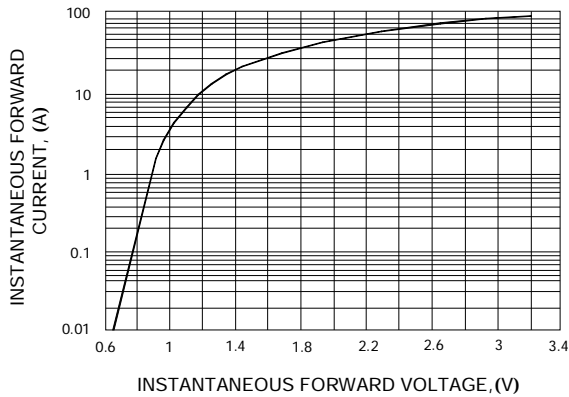


FIG. 4- TYPICAL REVERSE CHARACTERISTICS
PER LEG

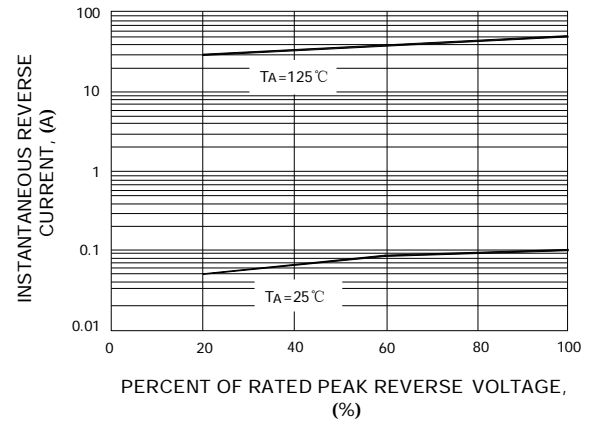


FIG. 5- TYPICAL JUNCTION CAPACITANCE
PER LEG

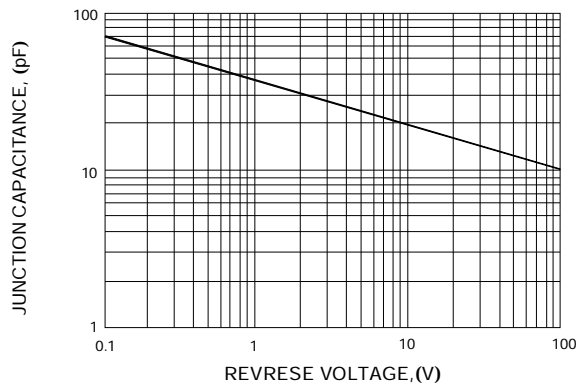


FIG. 6- TYPICAL TRANSIENT THERMAL
IMPEDANCE

