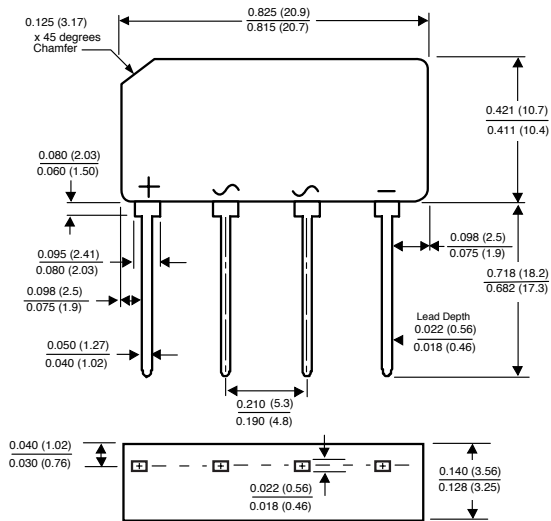


# G2SBA20 AND G2SBA60

## GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Reverse Voltage - 200 and 600 Volts Forward Current - 1.5 Amperes

### Case Type GBL



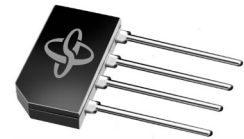
Polarity shown on front side of case, positive lead beveled corner.

If preferred, marking may be on reverse side of case.

Dimensions in inches and (millimeters)

### FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ This series is UL listed under the Recognized Component Index, file number E54214
- ◆ High case dielectric strength of 1500 VRMS
- ◆ Ideal for printed circuit boards
- ◆ Glass passivated chip junction
- ◆ High surge current capability
- ◆ 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

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Mounting Position:** Any

**Weight:** 0.071 ounce, 2.0 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

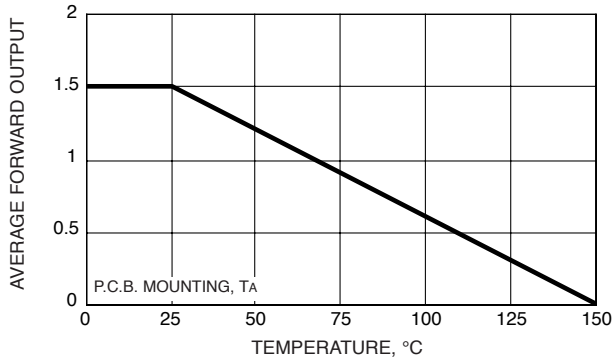
	SYMBOLS	G2SBA20	G2SBA60	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	200	600	Volts
Maximum RMS voltage	V <sub>RMS</sub>	140	420	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	200	600	Volts
Maximum average forward rectified I <sub>A</sub> =25°C output current at	I <sub>(AV)</sub>	1.5		Amps
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	60		Amps
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	16		A <sup>2</sup> sec
Maximum instantaneous forward voltage drop per leg at 0.75A	V <sub>F</sub>	1.05		Volts
Maximum DC reverse current at rated DC blocking voltage per leg	I <sub>R</sub>	T <sub>A</sub> =25°C T <sub>A</sub> =125°C	5.0 300	μA
Typical thermal resistance per leg	R <sub>θJA</sub> R <sub>θJL</sub>	40 12		°C/W
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150		°C

#### NOTE:

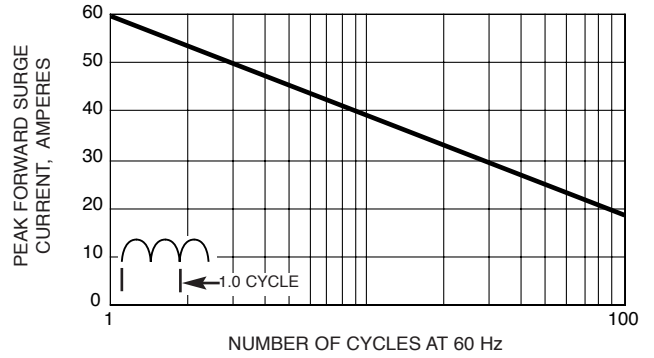
(1) Units mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads and 0.375" (9.5mm) lead length

# RATINGS AND CHARACTERISTICS CURVES G2SBA20 THRU G2SBA60

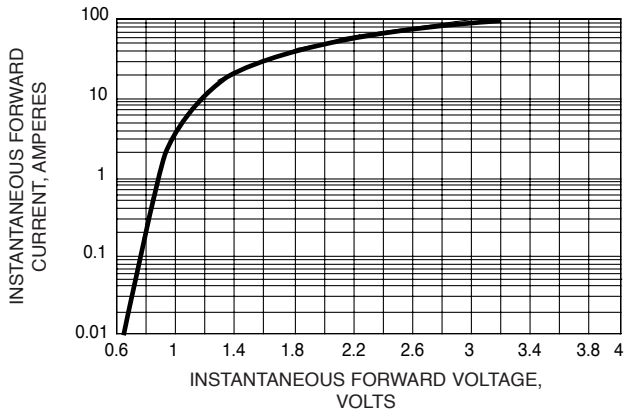
**FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT**



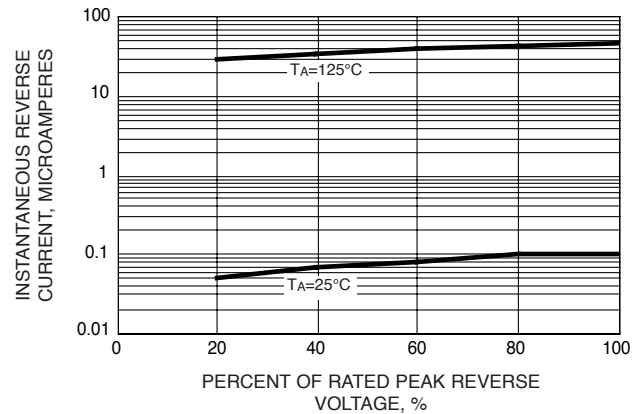
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



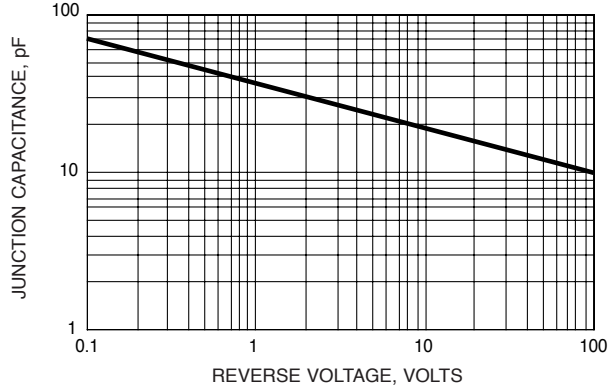
**FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG**



**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG**



**FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE**

