

G2SB005 THRU G2SB10

SINGL PHASE GLASS PASSIVATED BRIDGE RECTIFIER

GBL

FEATURES:

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Glass passivated chip junction
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed:
250 °C / 10 seconds, 0.375(9.5mm) lead length

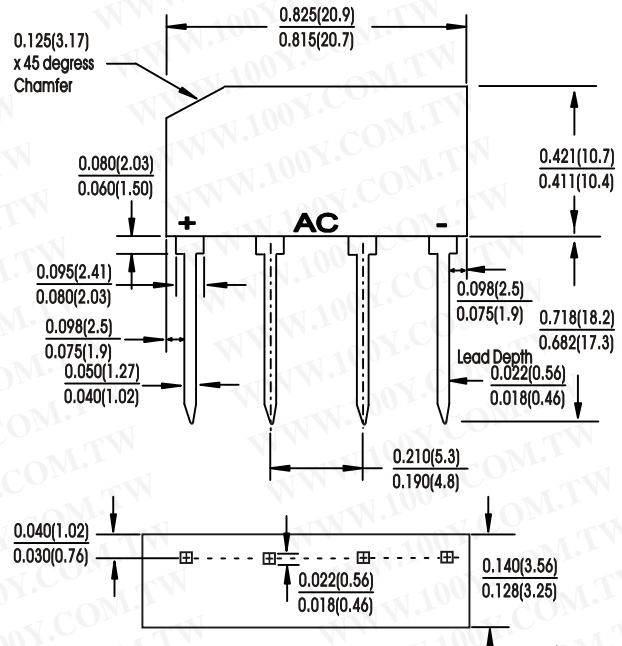
MECHANICAL DATA

Case: Molded plastic body over passivated junctions

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

Mounting Position: Any

Weight: 0.071 oz., 2.0 g



Polarity shown on form side of case: positive lead by beveled corner
Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

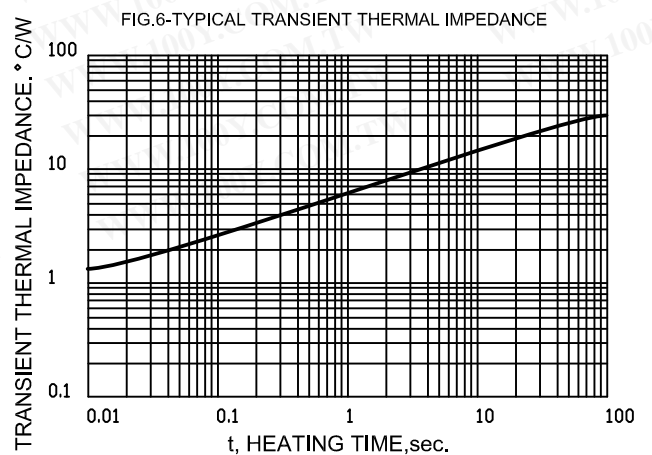
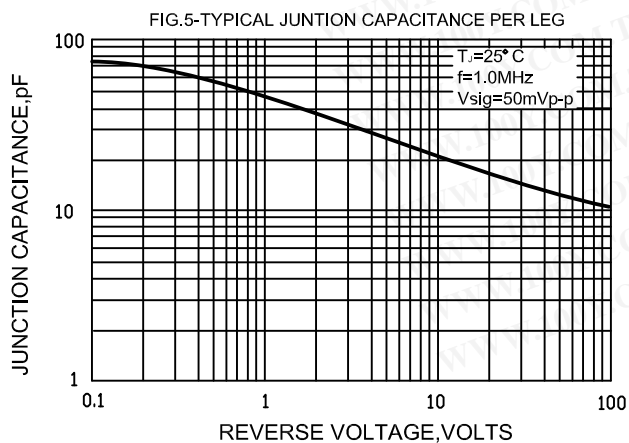
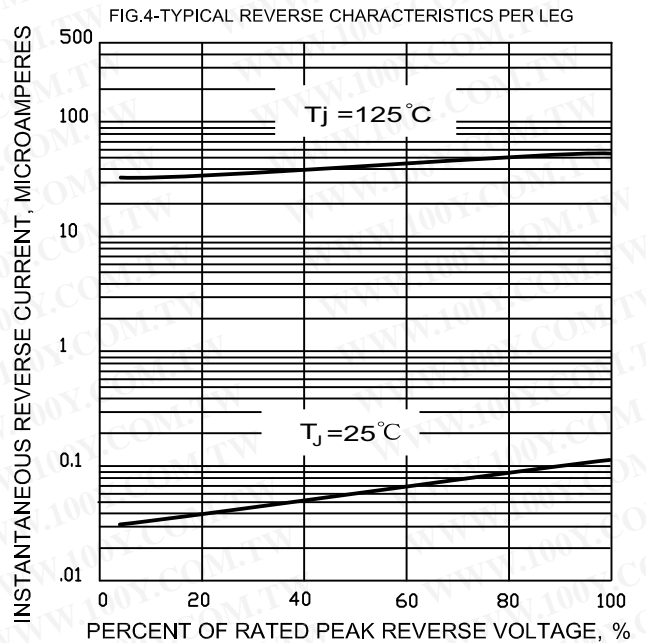
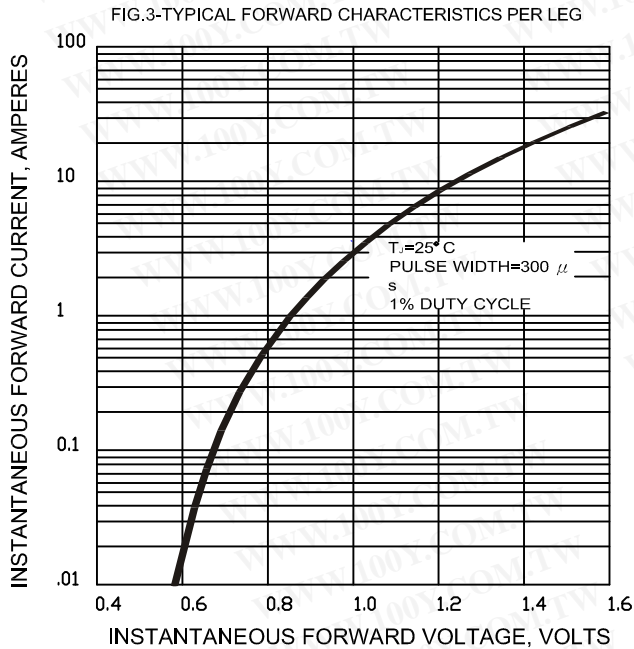
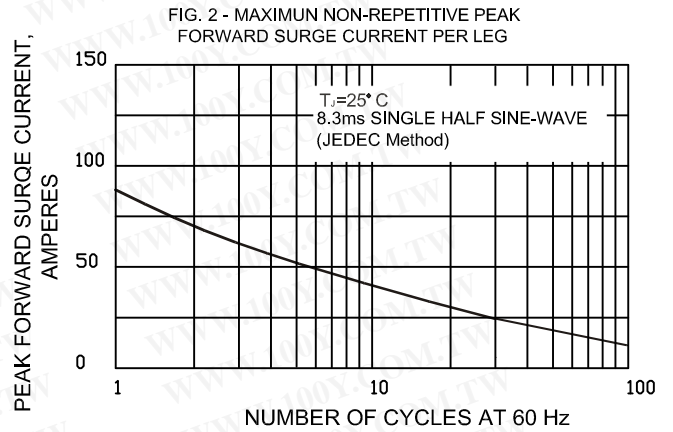
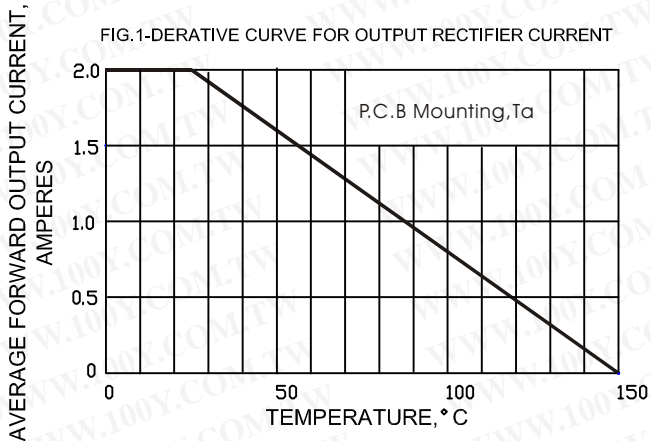
Characteristic	Symbol	G2SB 005	G2SB 01	G2SB 02	G2SB 04	G2SB 06	G2SB 08	G2SB 10	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at $T_a=25^{\circ}C$	I_o	2.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80							Amps
Rating for fusing ($t < 8.3ms$)	$I^2 T$	27.0							$A^2 sec$
Maximum instantaneous forward voltage drop per leg at 1.0A	V_F	1.05							Volts
Maximum DC reverse current at rated $T_a=25^{\circ}C$ DC blocking voltage (Per leg) $T_a=125^{\circ}C$	I_R	5.0 500							μA
Typical thermal resistance (Per leg)	$R_{th JA}$ $R_{th JL}$	40 12							$^{\circ}C/W$
Operating Junction and storage temperature range	T_J, T_{stg}	-55 to +150							$^{\circ}C$

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 G2SB005 THRU G2SB10



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