



SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

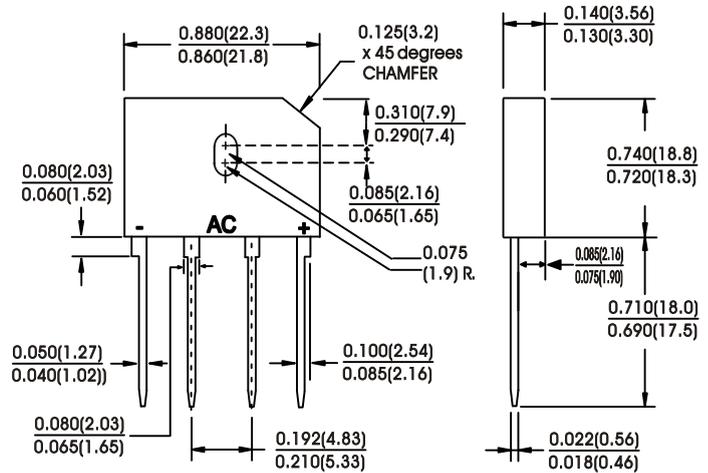
GBU

FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High case dielectric strength of 1500 VRMS
- Ideal for printed circuit boards
- Glass passivated chip junction
- High surge overload rating
- High temperature soldering guaranteed: 260°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 (NOTE 2)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

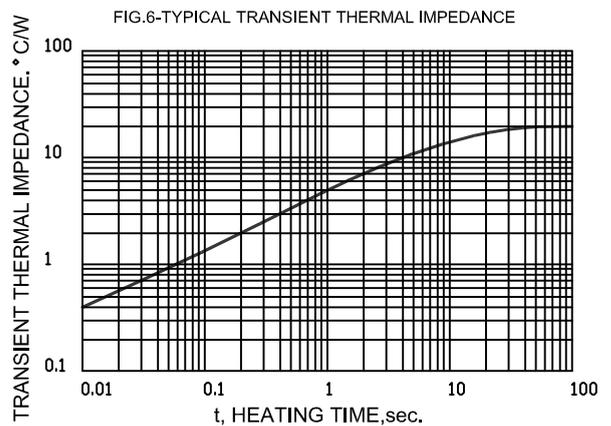
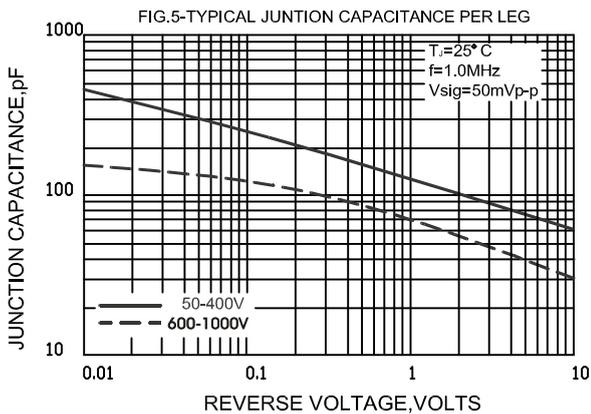
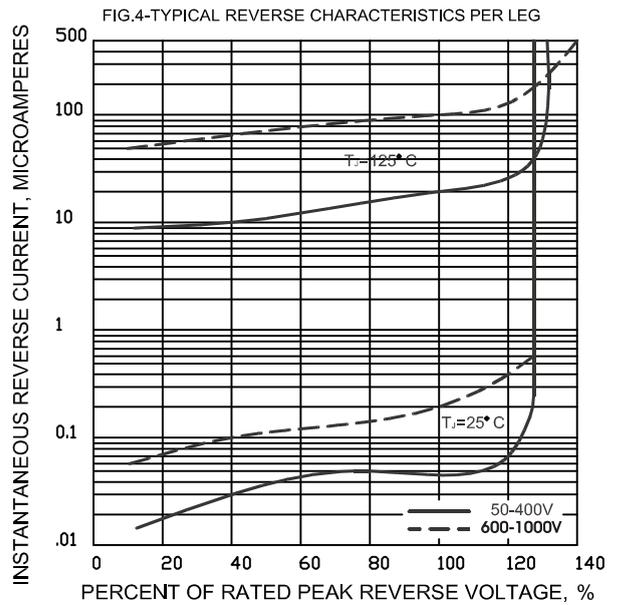
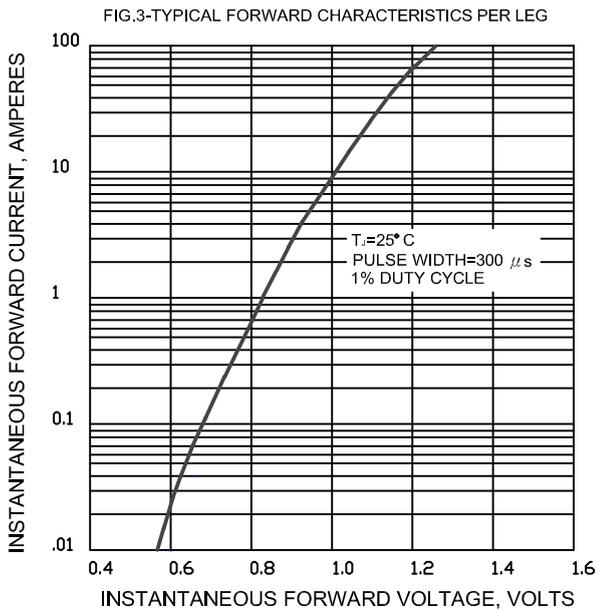
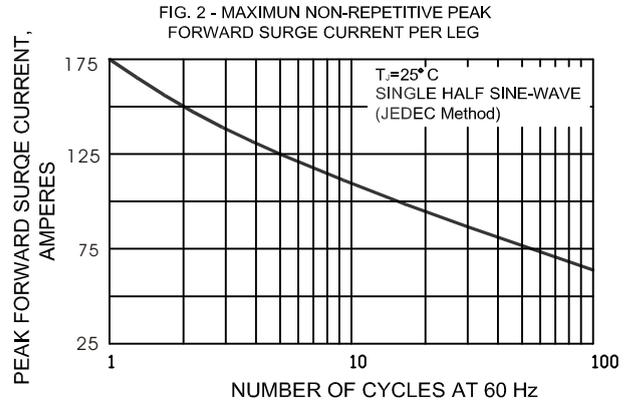
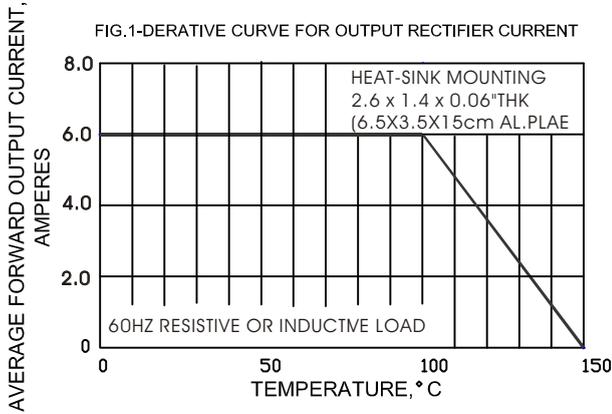
Rating at 25° C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

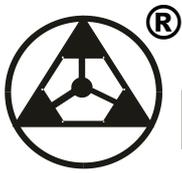
Characteristic	Symbol	GBU 6A	GBU 6B	GBU 6D	GBU 6G	GBU 6J	GBU 6K	GBU 6M	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at Tc=100°C (NOTE1, 2)	Io	6.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	175							Amps
Rating for fusing (t < 8.3ms)	I ² T	127.0							A ² Sec
Maximum instantaneous forward voltage drop per leg at 6.0A	VF	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage (Per leg) Ta=25° C Ta=125° C	IR	5.0 500							μ A
Typical Junction (Per leg) (NOTE3)	CJ	211.0				94.0			PF
Typical thermal resistance (Per leg) (NOTE1, 2)	Rth JA Rth JL	7.4 2.2							° C/W
Operating Junction and storage temperature range	TJ, Tstg	-55 to +150							° C

NOTES:
 (1) Unit case mounted on 2.6 x 1.4 x 0.06" thick (6.5 x 3.5 x 0.15cm) Al. plate heatsink
 (2) Recommended mounted position is bolt to down on heatsink with silicone thermal compound for maximum heat transfer with #6 screws
 (3) Measured at 1.0 MHz and applied reverse of 4.0 Volts



RATINGS AND CHARACTERISTIC CURVES





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