



SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

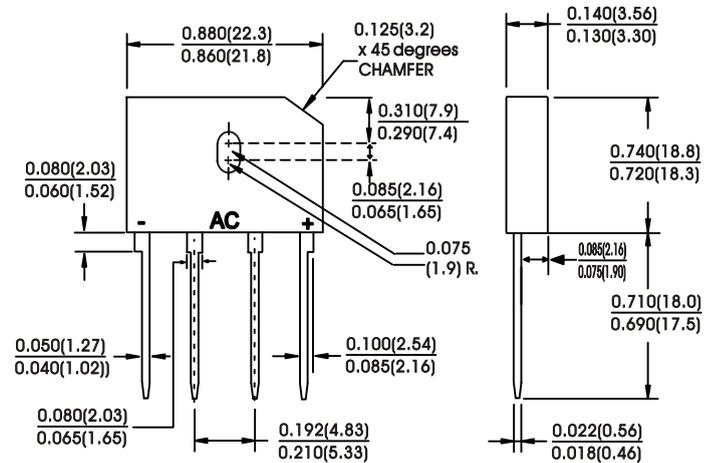
GBU

FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High case dielectric strength of 1500 V_{RMS}
- 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

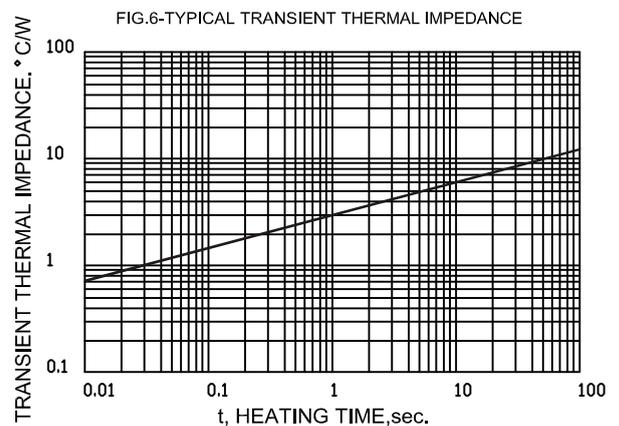
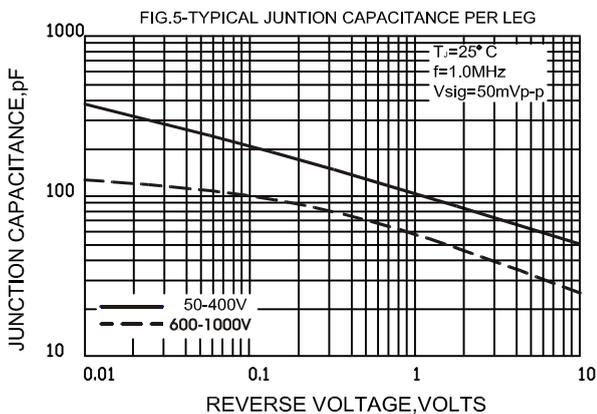
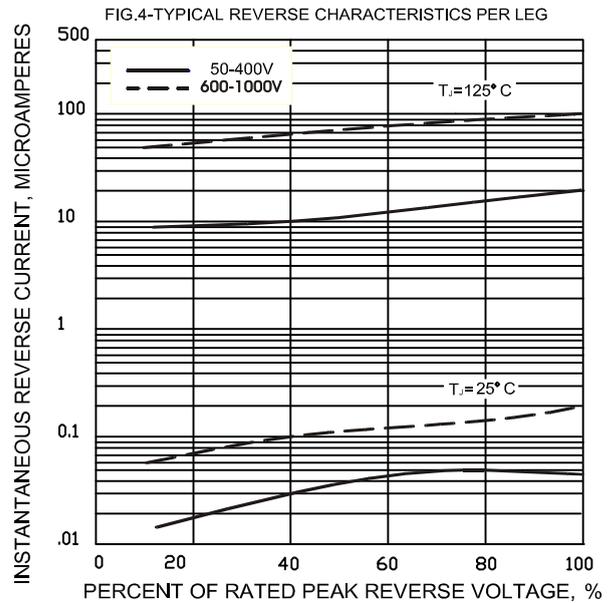
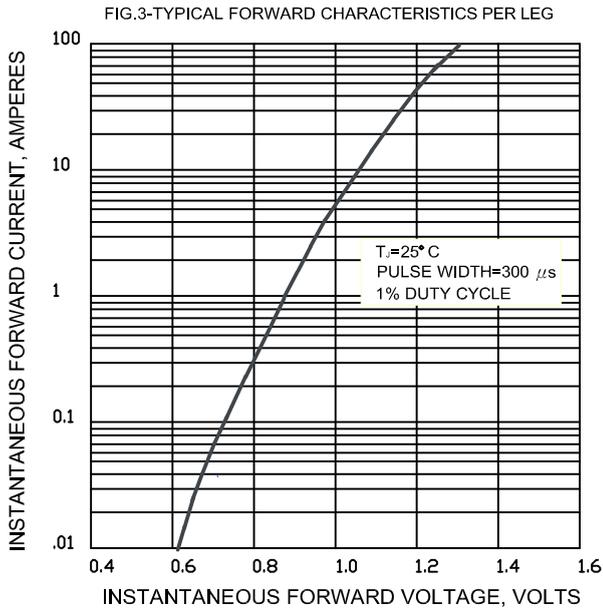
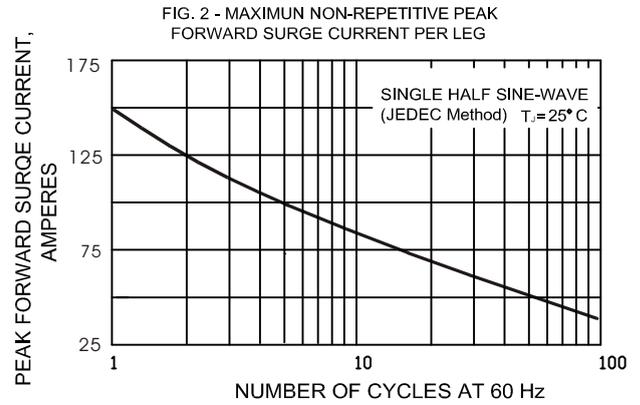
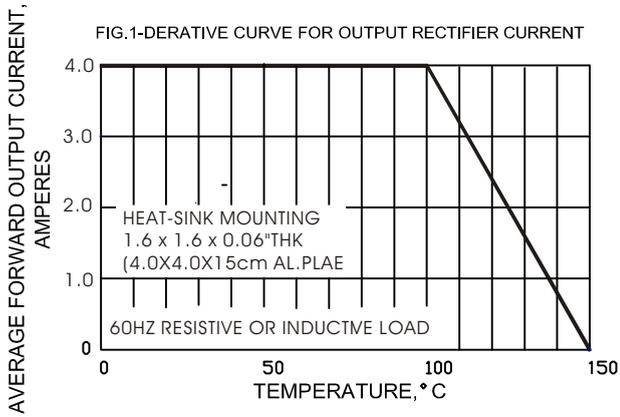
Rating at 25° C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	GBU 4A	GBU 4B	GBU 4D	GBU 4G	GBU 4J	GBU 4K	GBU 4M	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 _c =100°C (NOTE1, 2)	I _o	4.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150							Amps
Rating for fusing (t < 8.3ms)	I ² T	93.0							A ² sec
Maximum instantaneous forward voltage drop per leg at 4.0A	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage (Per leg) T _a =25°C T _a =125°C	I _R	5.0 500							μ A
Typical junction (Per leg) (NOTE3)	C _J	100.0					45.0		PF
Typical thermal resistance (Per leg) (NOTE1, 2)	R _{th JA} R _{th JL}	22 4.2							° C/W
Operating Junction and storage temperature range	T _J , T _{stg}	-55 to +150							° C

NOTES:
 (1) Unit case mounted on 1.6 x 1.6 x 0.06" thick (4.0 x 4.0 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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