



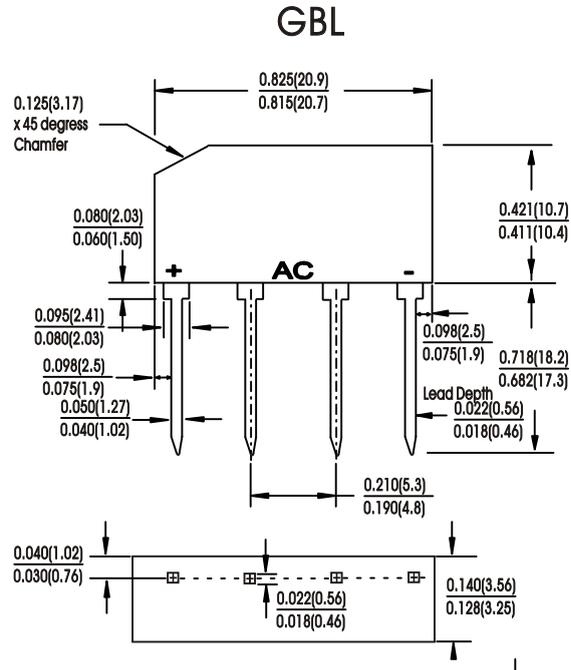
GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under the Recognized 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

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

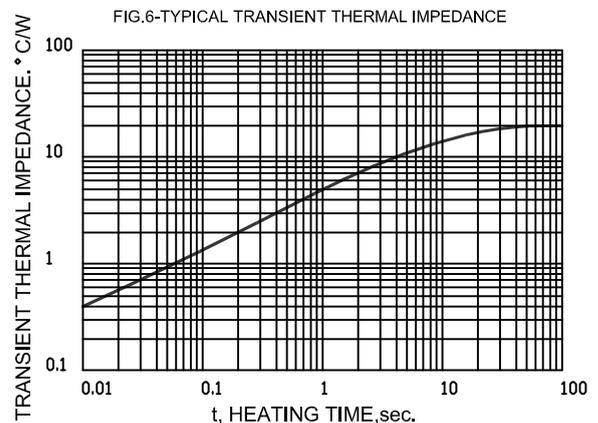
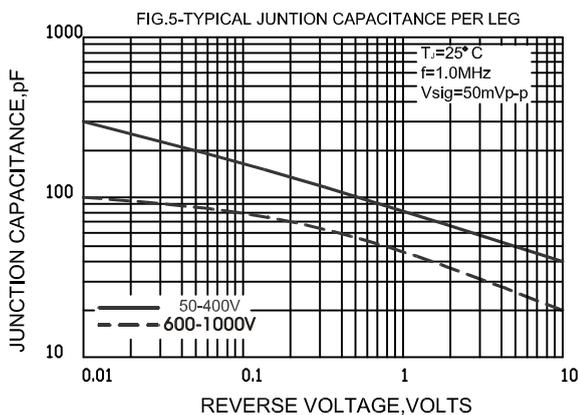
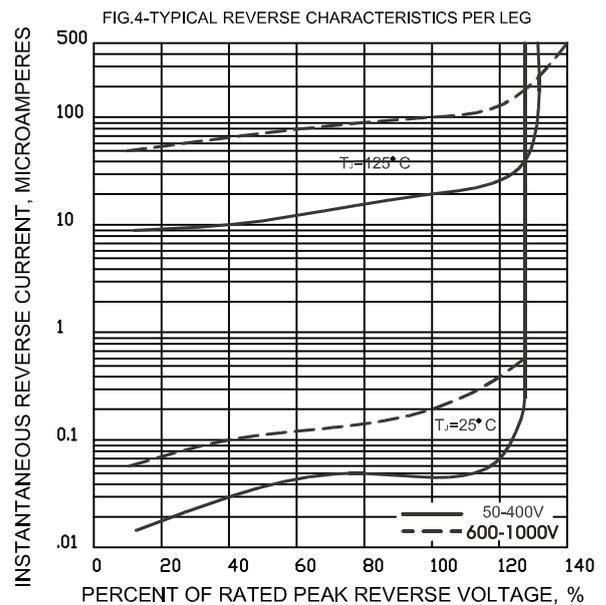
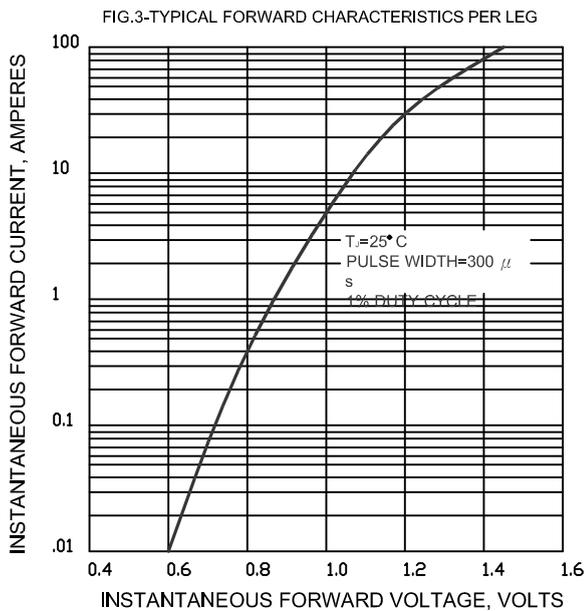
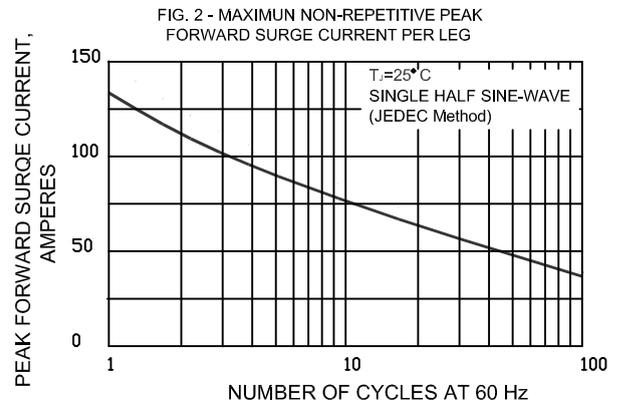
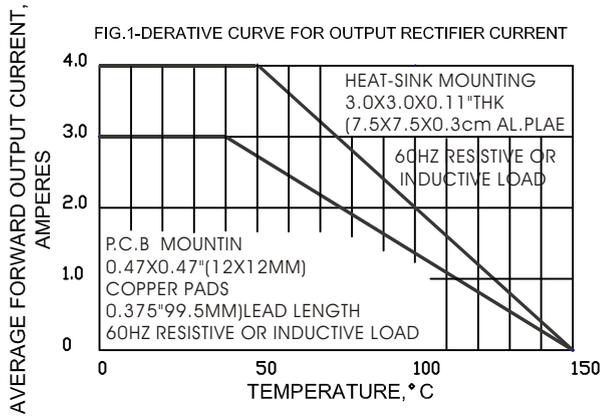
Rating at 25° C ambient temp. unless otherwise specified.
Single phase, half sine wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20 %.

Characteristic	Symbol	GBL 005	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 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 $T_c=50^\circ C$ (NOTE 1) $T_c=40^\circ C$ (NOTE 2)	I_O	4.0				3.0				Amps
Peak forward surge current, 8.3ms single half sine-wave auperimposed on rated load(JEDEC Method)	I_{FSM}					135				Amps
Rating for fusing($t < 8.3ms$)	$I^2 T$					75.0				$A^2 Sec$
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) $T_a=25^\circ C$ $T_a=125^\circ C$	I_R					5.0 500				μA
Typical junction (Per leg) (NOTE 3)	C_J	95.0				40.0				PF
Typical thermal resistance(Per leg) (NOTE 1) (NOTE 2)	$R_{th JA}$ $R_{th JL}$					22.0 3.5				$^\circ C/W$
Operating Junction and storage temperature range	T_J, T_{stg}					-55 to +150				

NOTES:
(1) Unit mounted on 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3cm) Al. plate
(2) Unit mounted on P.C.B. At 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads
(3) Measured at 1.0 MHz and applied reverse of 4.0 Volts



RATING AND CHARACTERISTIC CURVES





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