

GBL005 thru GBL10 Glass Passivated Single-Phase Bridge Rectifier

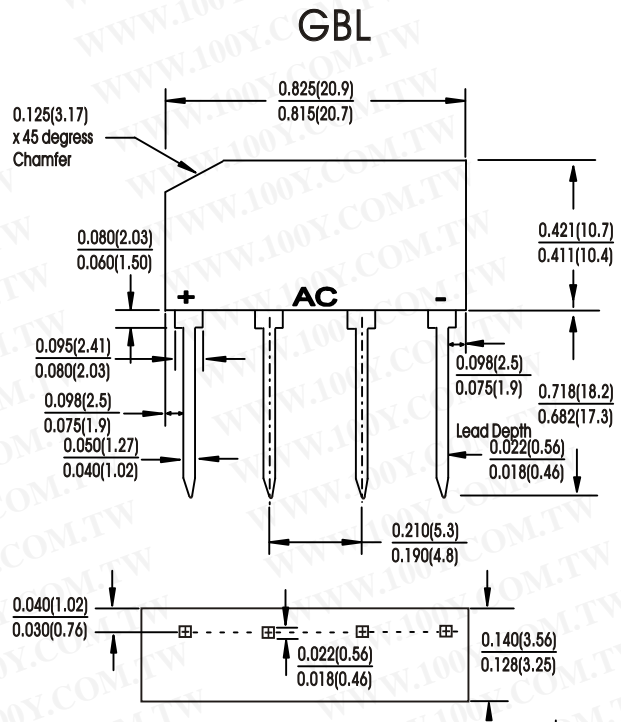
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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)

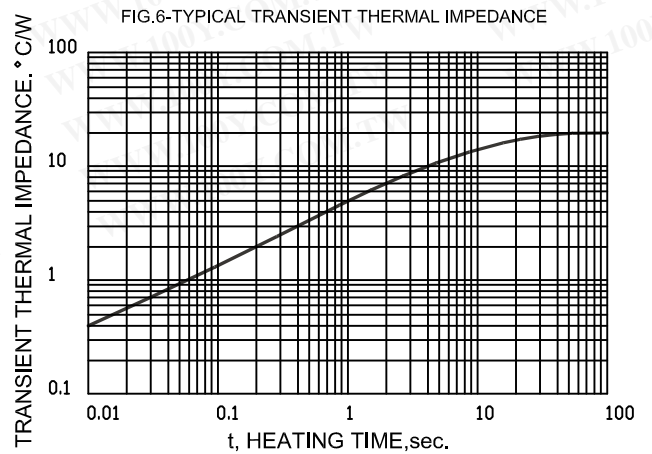
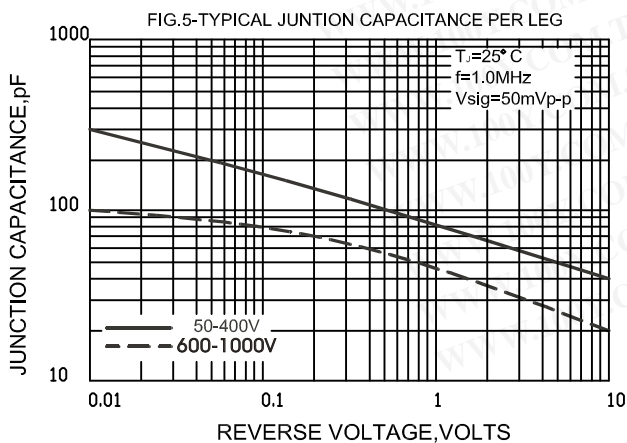
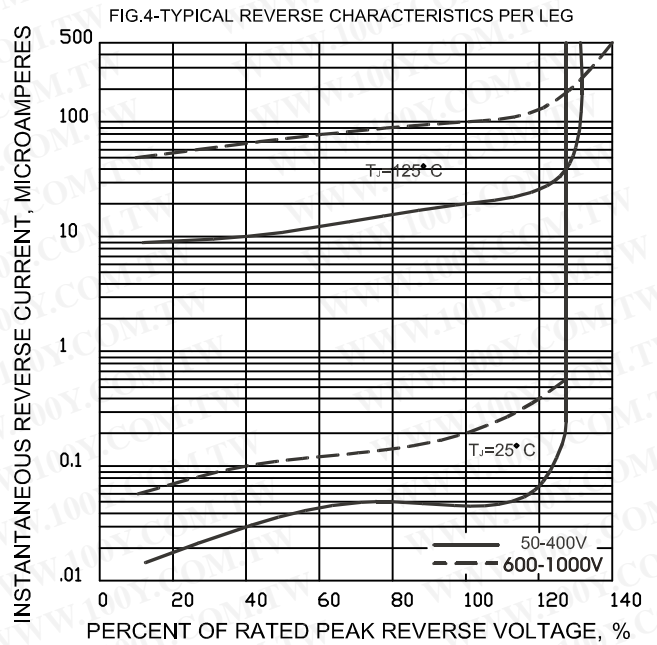
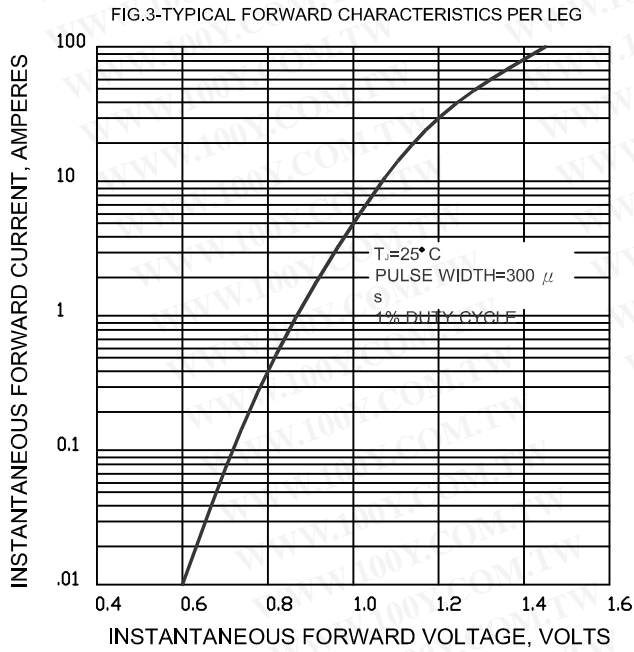
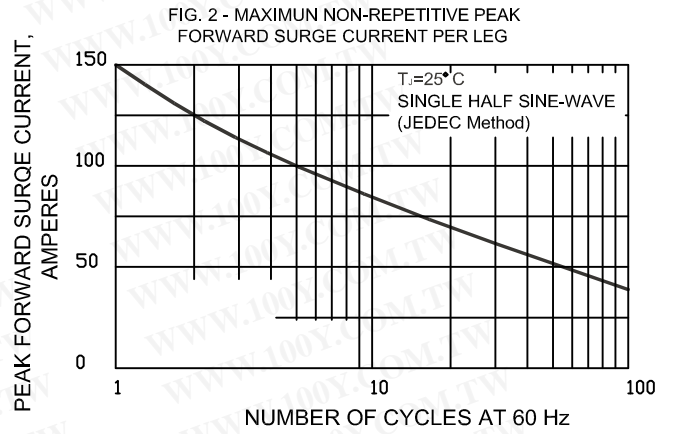
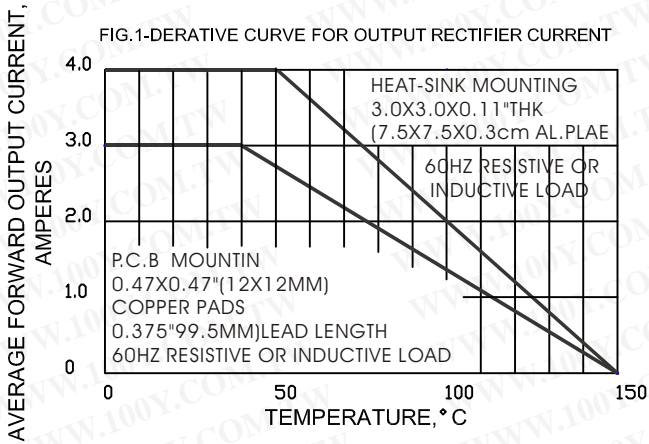
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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° C (NOTE 1) T _c =40° C (NOTE 2)	I _O					4.0 3.0				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) (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				° 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 GBL005 THRU GBL10



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