

**GBU6A                      THRU                      GBU6M**  
**SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS**

**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)

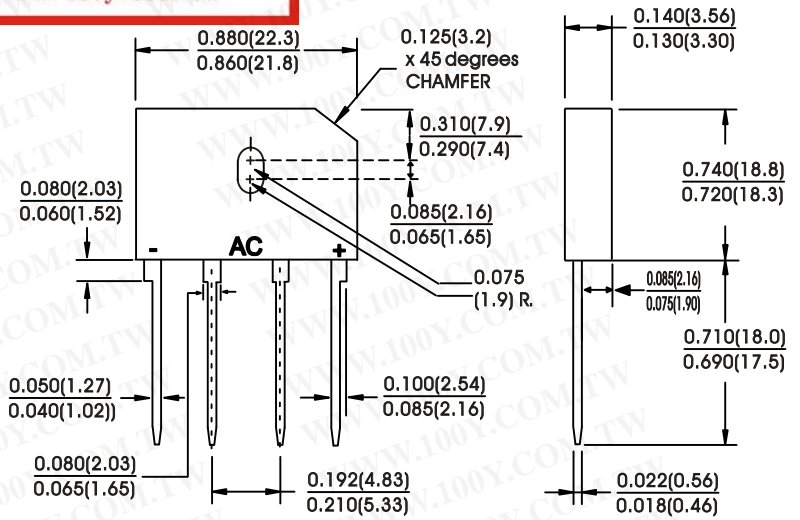
**GBU**

**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)

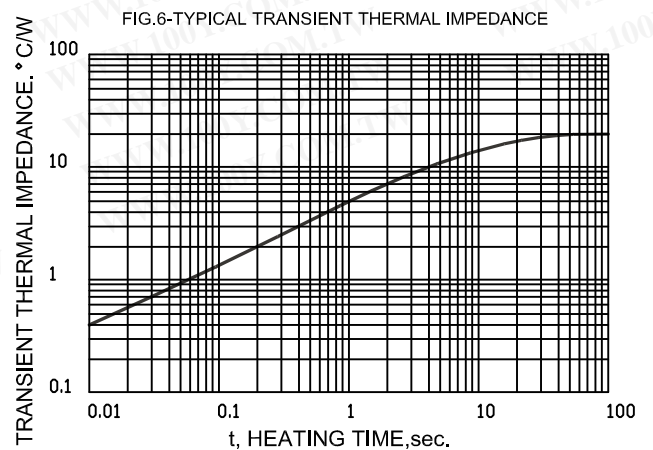
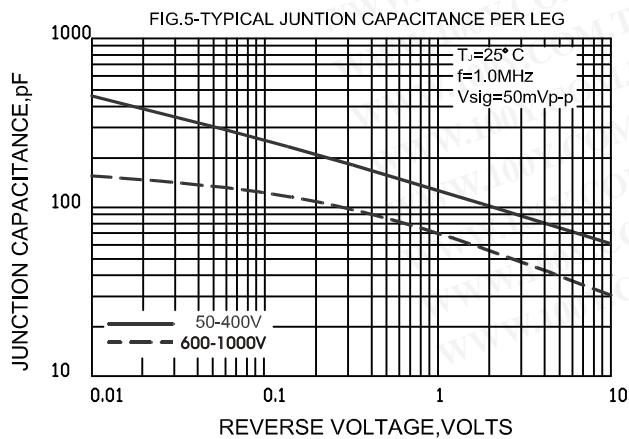
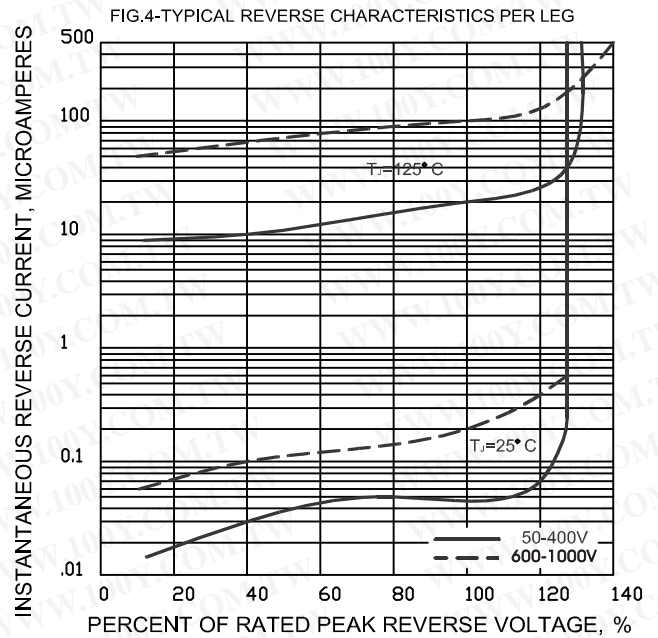
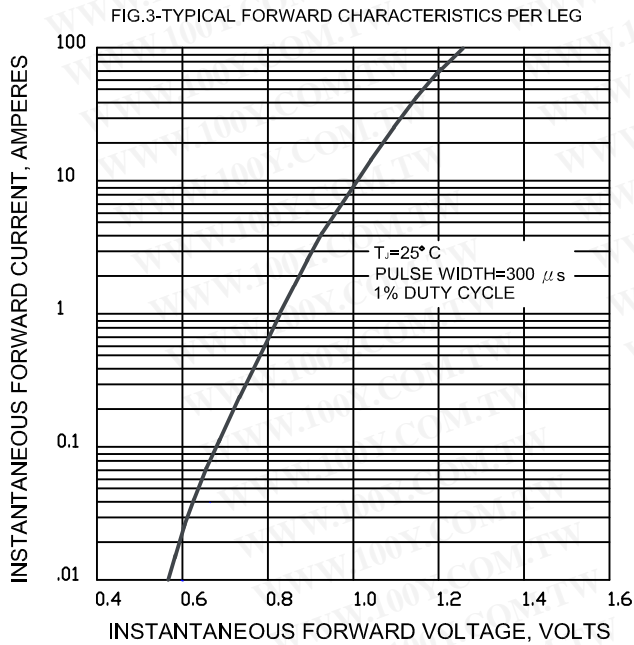
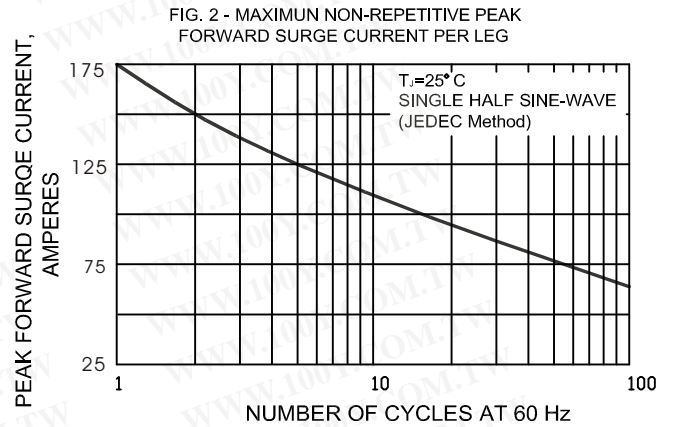
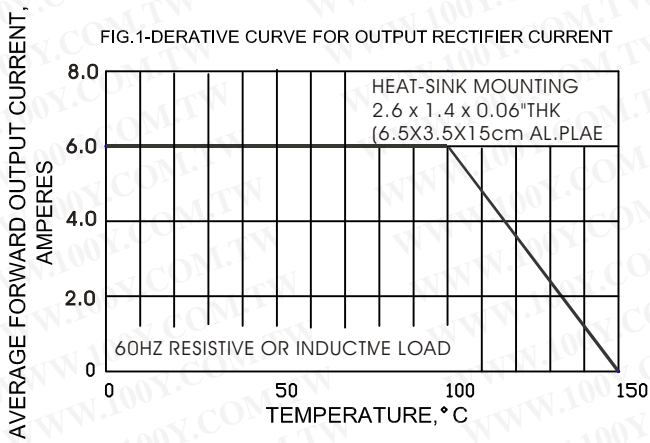
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts	
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts	
Maximum DC voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts	
Maximum average forward rectified current at T <sub>c</sub> =100°C (NOTE1, 2)	I <sub>o</sub>	6.0							Amps	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	175							Amps	
Rating for fusing (t < 8.3ms)	I <sup>2</sup> T	127.0							A <sup>2</sup> Sec	
Maximum instantaneous forward voltage drop per leg at 6.0A	V <sub>F</sub>	1.1							Volts	
Maximum DC reverse current at rated DC blocking voltage (Per leg)	I <sub>R</sub>	5.0 500							μA	
Typical junction (Per leg) (NOTE3)	C <sub>J</sub>	211.0				94.0				PF
Typical thermal resistance (Per leg) (NOTE1, 2)	R <sub>th JA</sub> R <sub>th JL</sub>	7.4 2.2							°C/W	
Operating Junction and storage temperature range	T <sub>J</sub> , T <sub>stg</sub>	-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 GBU6A THRU GBU6M



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