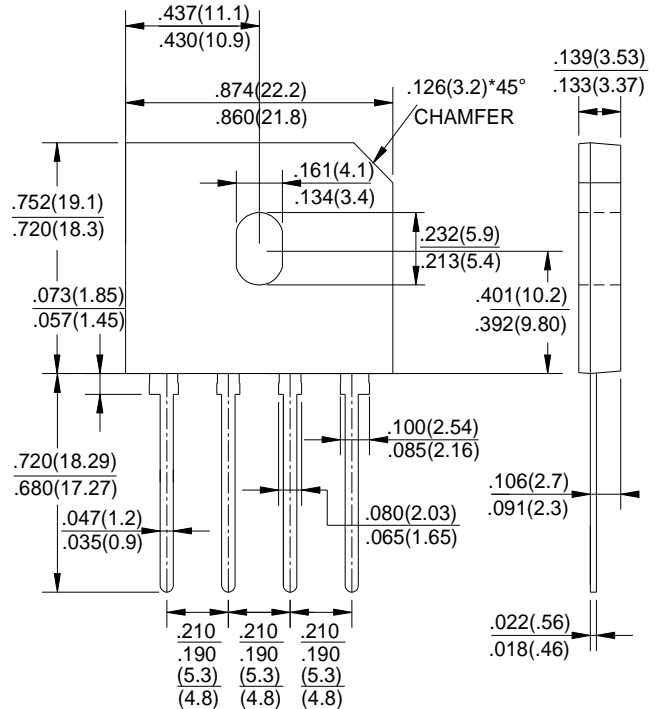


**GLASS PASSIVATED  
BRIDGE RECTIFIERS**
**REVERSE VOLTAGE - 600 Volts**  
**FORWARD CURRENT - 8.0 Amperes**
**FEATURES**

- Surge overload rating -200 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L the flammability classification 94V-0
- Mounting position:Any

**GBU**

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBU806L	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	V
Maximum Average Forward Rectified Current (with heatsink Note 2) @ T <sub>c</sub> =100°C (without heatsink)	I <sub(av)< sub=""></sub(av)<>	8.0 2.9	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	200	A
Maximum Forward Voltage at 4.0A DC	V <sub>F</sub>	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	10.0 500	μA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	127	A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	C <sub>J</sub>	60	pF
Typical Thermal Resistance	R <sub>θJC</sub>	2.2	°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 75mm\*75mm\*1.6mm Cu plate heatsink.

3.The typical data above is for reference only(典型值仅供参考).

FIG.1-FORWARD CURRENT DERATING CURVE

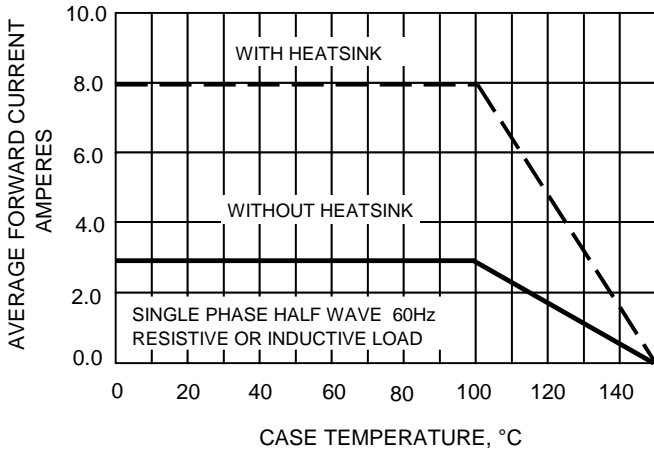


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

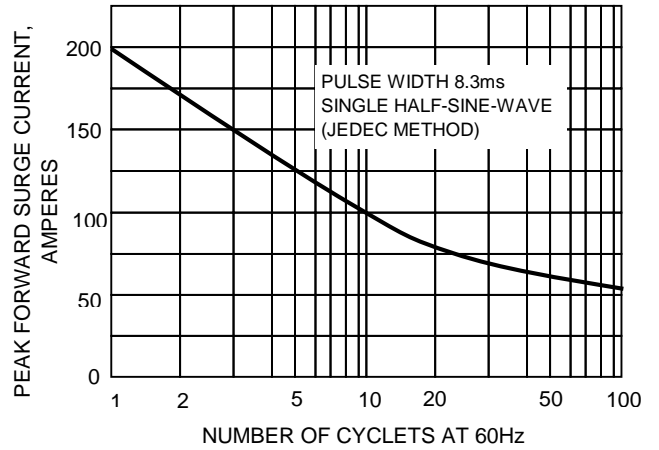


FIG.3-TYPICAL JUNCTION CAPACITANCE

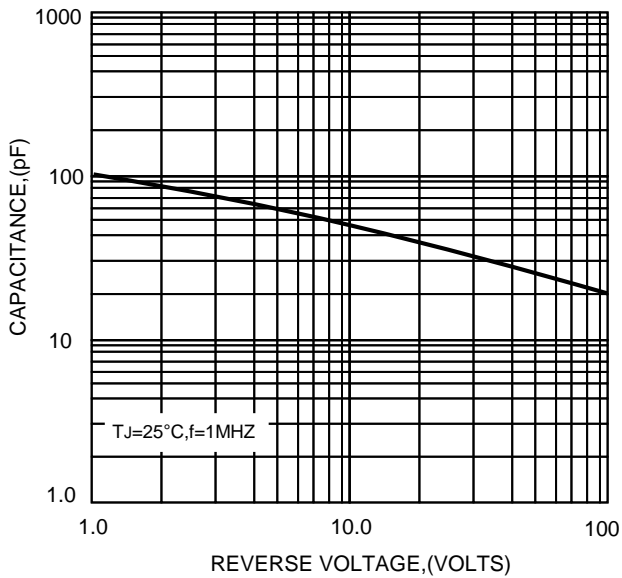


FIG.4-TYPICAL FORWARD CHARACTERISTICS

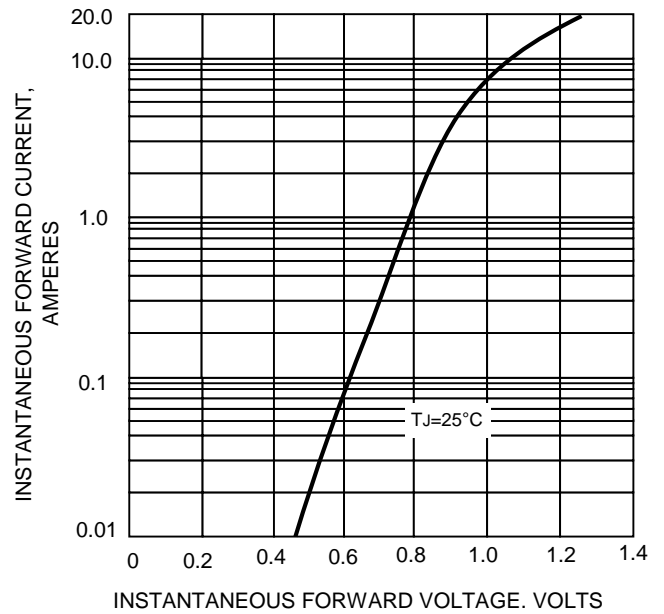
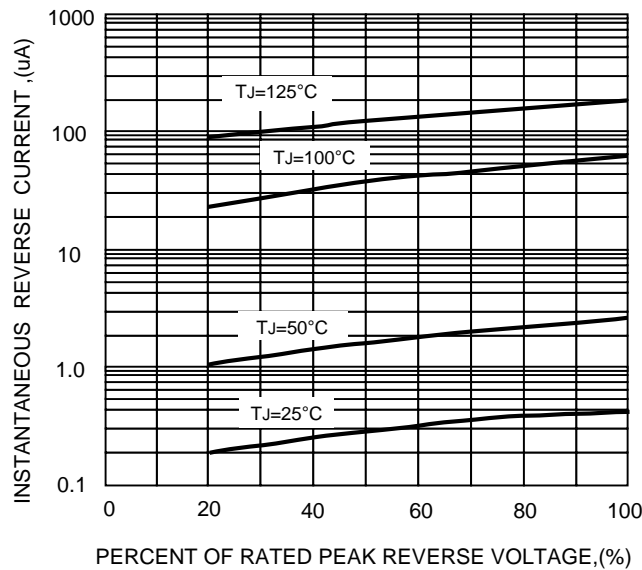


FIG.5-TYPICAL REVERSE CHARACTERISTICS



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!