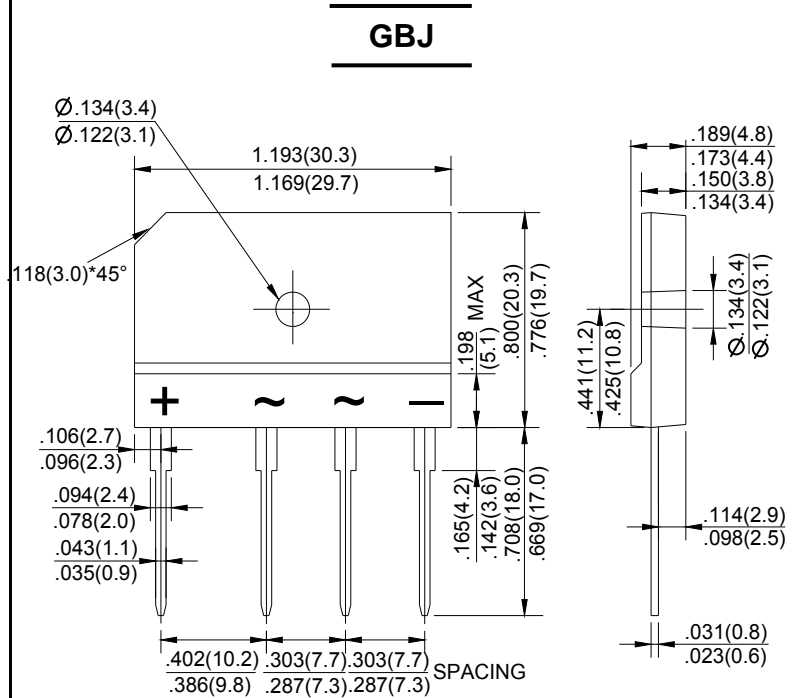


GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts
FORWARD CURRENT - 20 Amperes

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0



Dimensions in inches and (millimeters)

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 | GBJ 2005 | GBJ 2001 | GBJ 2002 | GBJ 2004 | GBJ 2006 | GBJ 2008 | GBJ 2010 | UNIT | |
|---|-------------------|----------|----------|----------|----------|-------------|----------|----------|------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V | |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| Maximum Average Forward Rectified Current (with heatsink Note 2) @ T _c =100°C (without heatsink) | I _(AV) | | | | | 20.0 | | | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | I _{FSM} | | | | | 260 | | | | A |
| Maximum Forward Voltage at 10.0A DC | V _F | | | | | 1.0 | | | | V |
| Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C | I _R | | | | | 5.0 | | | | µA |
| I ² t Rating for Fusing (t<8.3ms) | I ² t | | | | | 280 | | | | A ² s |
| Typical Junction Capacitance Per Element (Note1) | C _J | | | | | 60 | | | | pF |
| Typical Thermal Resistance to Ambient (Note2) | R _{θJA} | | | | | 4.5 | | | | °C/W |
| Typical Thermal Resistance to case(Note2) | R _{θJC} | | | | | 0.8 | | | | |
| Typical Thermal Resistance to lead (Note2) | R _{θJL} | | | | | 1.5 | | | | |
| Operating Temperature Range | T _J | | | | | -55 to +150 | | | | °C |
| Storage Temperature Range | T _{STG} | | | | | -55 to +150 | | | | °C |

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Device mounted on 300mm*300mm*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

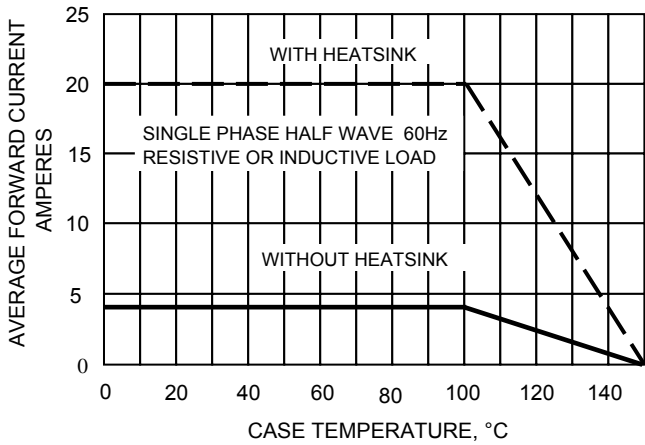


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

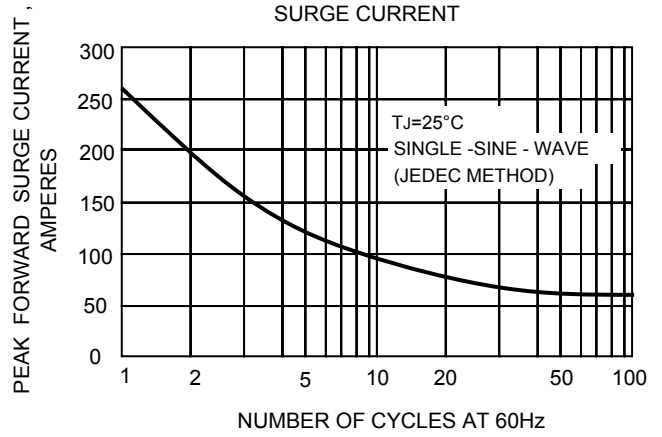


FIG.3-TYPICAL JUNCTION CAPACITANCE

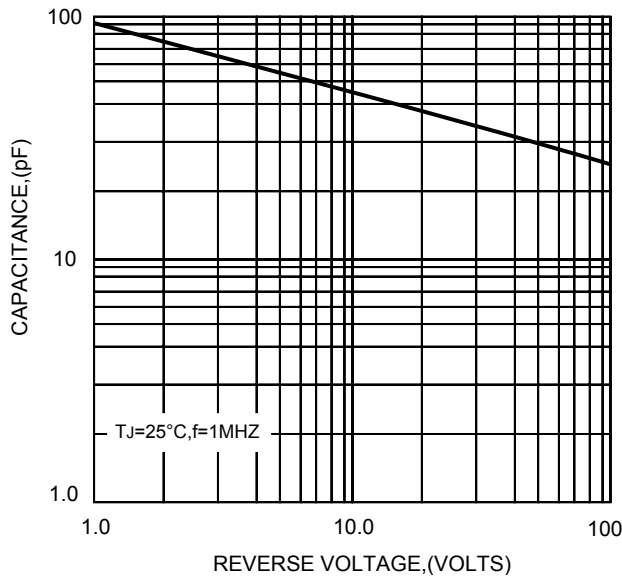


FIG.4-TYPICAL FORWARD CHARACTERISTICS

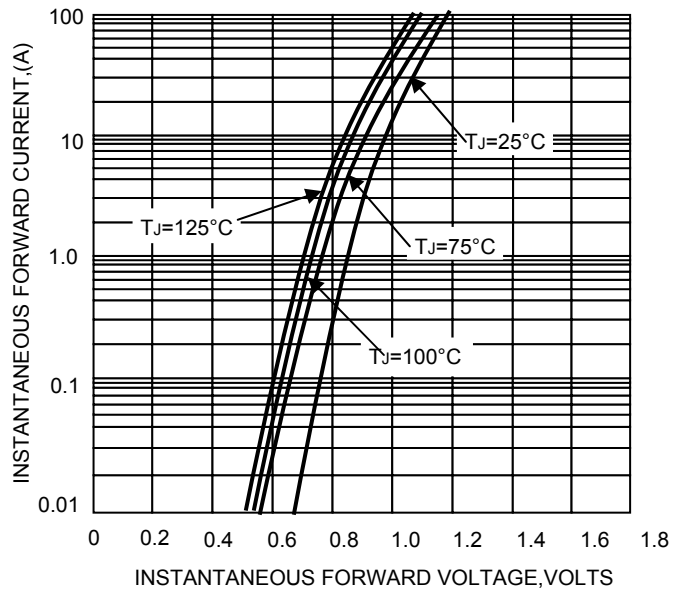
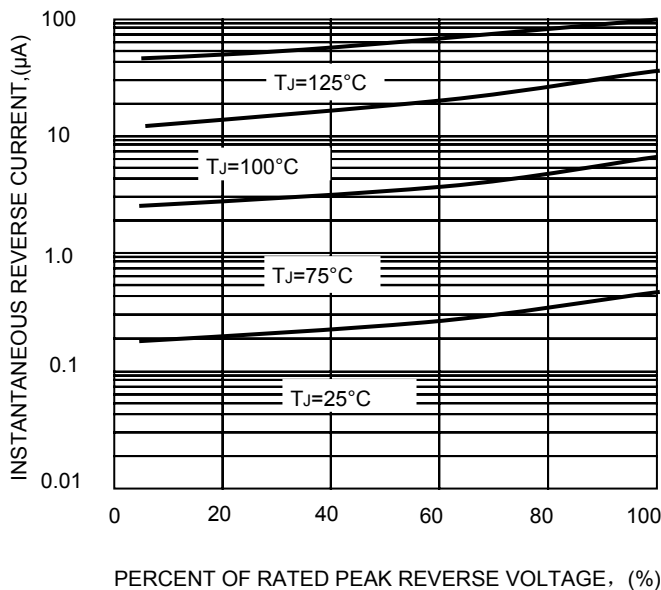


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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