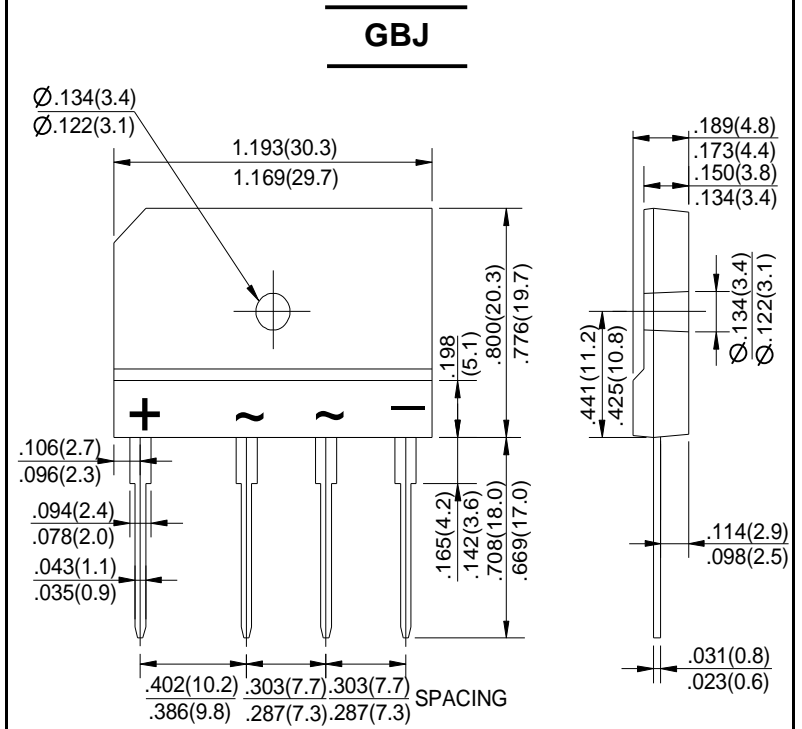


| | |
|---|--|
| GLASS PASSIVATED BRIDGE RECTIFIERS | REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 8.0 Amperes |
|---|--|

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 U/L flammability classification 94V-0



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 | GBJ8005 | GBJ801 | GBJ802 | GBJ804 | GBJ806 | GBJ808 | GBJ810 | UNIT | |
|---|-------------------|-------------|--------|--------|--------|--------|--------|--------|------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | v | |
| Maximum RMS Voltage | V _{RMS} | 30 | 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 @ T _c =100°C (without heatsink) | I _(AV) | 8.0 | | | | | | | 2.9 | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | I _{FSM} | 200 | | | | | | | | A |
| Maximum Forward Voltage at 4.0A DC | V _F | 1.1 | | | | | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _J =25°C | I _R | 10.0 | | | | | | | | uA |
| | | 500 | | | | | | | | |
| I ² t Rating for Fusing (t<8.3ms) | I ² t | 120 | | | | | | | | A ² s |
| Typical Junction Capacitance Per Element (Note1) | C _J | 55 | | | | | | | | pF |
| Typical Thermal Resistance (Note2) | R _{θJC} | 1.8 | | | | | | | | °C/W |
| 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 75mm*75mm*1.6mm cu plate heatsink.

FIG.1-FORWARD CURRENT DERATING CURVE

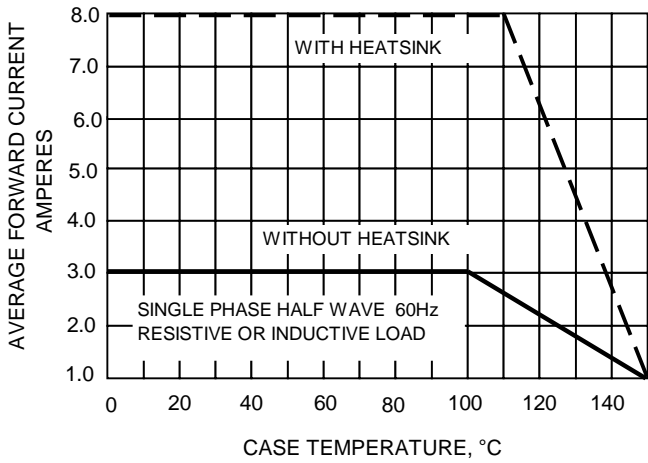


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

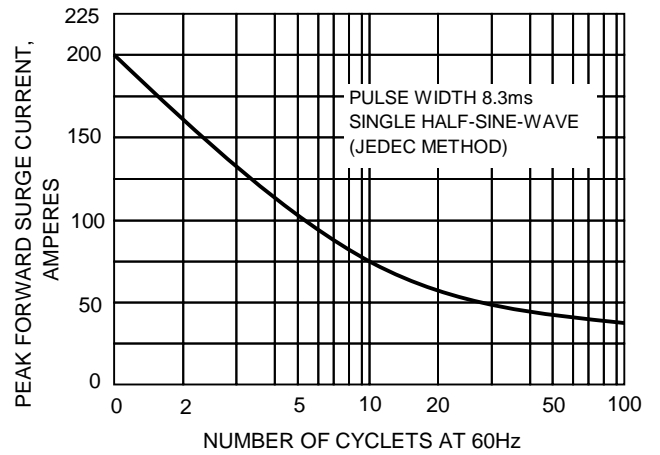


FIG.3-TYPICAL JUNCTION CAPACITANCE

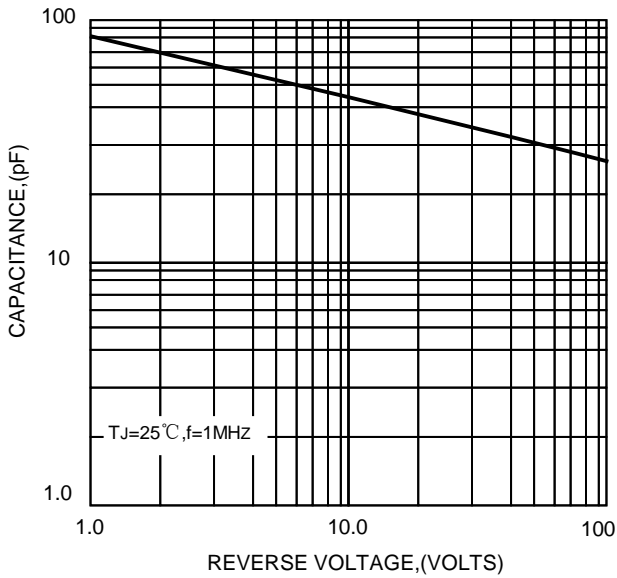


FIG.4-TYPICAL FORWARD CHARACTERISTICS

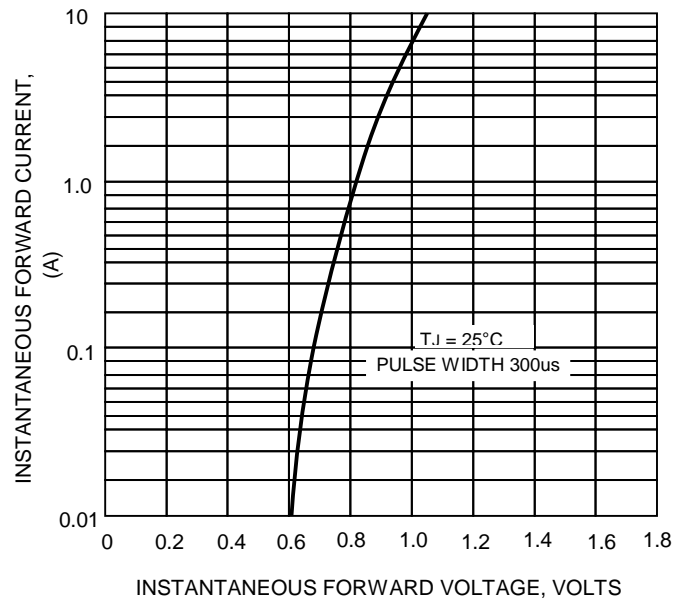


FIG.5-TYPICAL REVERSE CHARACTERISTICS

