

GBU8005~GBU810**Single Phase 8.0Amp Glass passivated Bridge Rectifiers****Features**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated Junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C/10 seconds at terminals

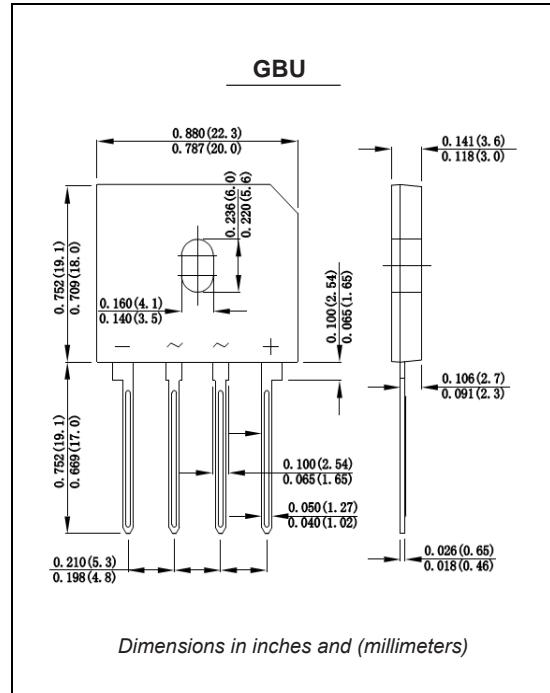
Mechanical Data

Case: Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

**Maximum Ratings And Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

| | SYMBOLS | GBU 8005 | GBU 801 | GBU 802 | GBU 804 | GBU 806 | GBU 808 | GBU 810 | UNITS |
|--|--------------------------------|-------------|------------|------------|------------|------------|------------|------------|-------|
| Maximum repetitive 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 blocking voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current at T _L =50°C | I _(AV) | | | | | | | | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | | | | | | | | Amps |
| Maximum instantaneous forward voltage at 4.0A | V _F | | | | | | | | Volts |
| Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C | I _R | | | | | | | | uA |
| Typical junction capacitance (Note 1) | C _J | | | | | | | | pF |
| Typical thermal resistance (Note 2) | R _{QJA} | | | | | | | | °C/W |
| Operating junction and storage temperature range | T _{J,T_{STG}} | | | | | | | | °C |

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Mounted on PCB with 12*12mm copper pad

Ratings And Characteristic Curves

GBU8005 THRU GBU810

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

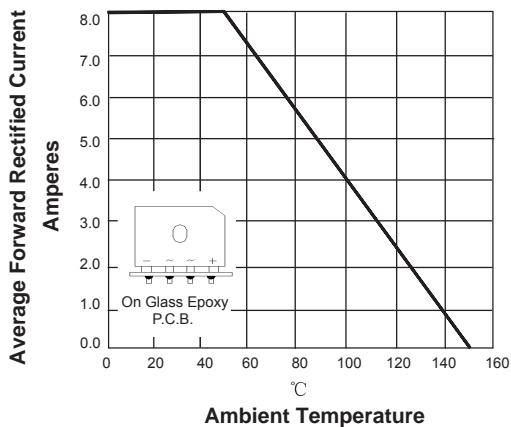


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

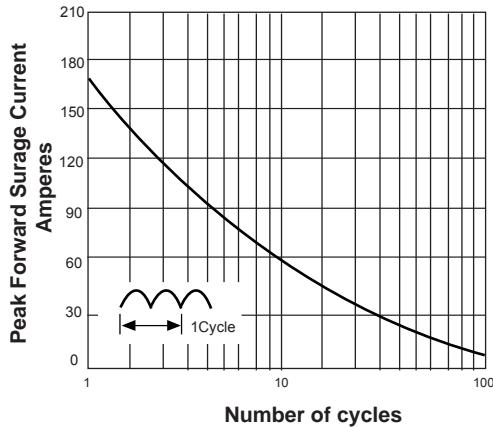


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

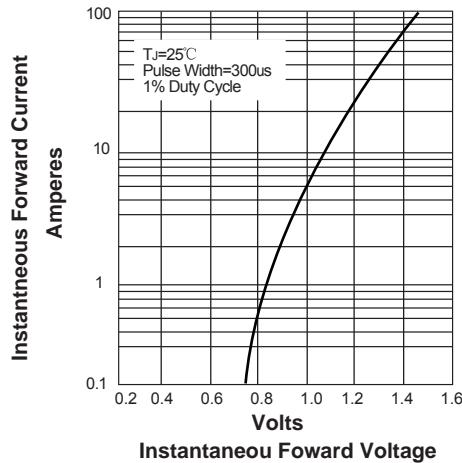


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

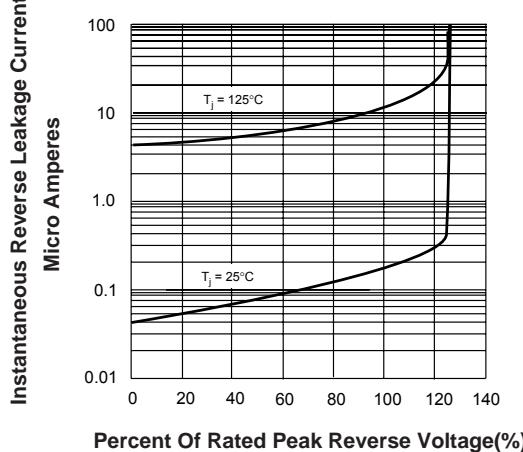


FIG. 5-TYPICAL JUNCTION CAPACITANCE

