



GBU10005 THRU GBU1010

BRIDGE RECTIFIERS

FEATURES

- UL Recognized File #E469616
- Glass passivated chip junction
- Reliable low cost construction utilizing molded plastic technique
- Ideal for printed circuit board
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability

MECHANICAL DATA

Case: Molded plastic, GBU

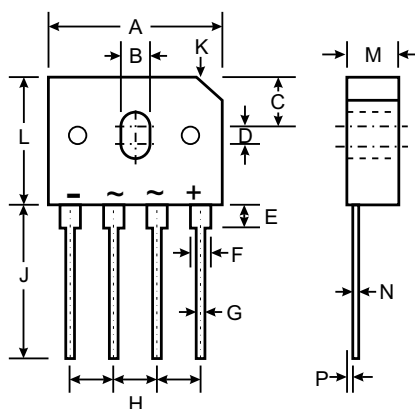
Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed

Mounting position: Any

Weight: 0.15ounce, 4.0gram

GBU



| Dim | Min | Max |
|-----|-----------|------|
| A | 21.8 | 22.3 |
| B | 3.5 | 4.1 |
| C | 7.4 | 7.9 |
| D | 1.65 | 2.16 |
| E | 2.25 | 2.75 |
| F | 2.05 | 2.3 |
| G | 1.02 | 1.27 |
| H | 4.83 | 5.33 |
| J | 17.5 | 18.0 |
| K | 4.2 X 45° | |
| L | 18.3 | 18.8 |
| M | 3.30 | 3.56 |
| N | 0.46 | 0.56 |
| P | 0.76 | 1.0 |

Dimensions in millimeters

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, derate current by 20%.

| TYPE NUMBER | SYMBOL | GBU 10005 | GBU 1001 | GBU 1002 | GBU 1004 | GBU 1006 | GBU 1008 | GBU 1010 | UNITS |
|---|-----------------------------------|------------|----------|----------|----------|----------|----------|----------|------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | | | | | | | | V |
| Working Peak Reverse Voltage | V_{RWM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | |
| DC Blocking Voltage | V_{DC} | | | | | | | | |
| RMS Reverse Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1)@T _c =90°C | $I_{F(AV)}$ | 10.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 175 | | | | | | | A |
| Forward Voltage per element @I _F =5A @I _F =10A | V_{FM} | 1.0 1.1 | | | | | | | V |
| Peak Reverse Current @T _A =25 °C At Rated DC Blocking Voltage @T _A =125 °C | I_R | 5.0 500 | | | | | | | uA |
| I ² t Rating for fusing (t <8.3ms) | I^2t | 166 | | | | | | | A ² s |
| Typical Junction Capacitance per leg (Note 2) | C_J | 70 | | | | | | | pF |
| Typical Thermal Resistance per leg (Note 3) | $R_{\theta JA}$ | 30.9 | | | | | | | °C/W |
| | $R_{\theta JL}$ | 7.3 | | | | | | | |
| Operating and Storage Temperature Range | T _J , T _{STG} | -55to+150 | | | | | | | °C |

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

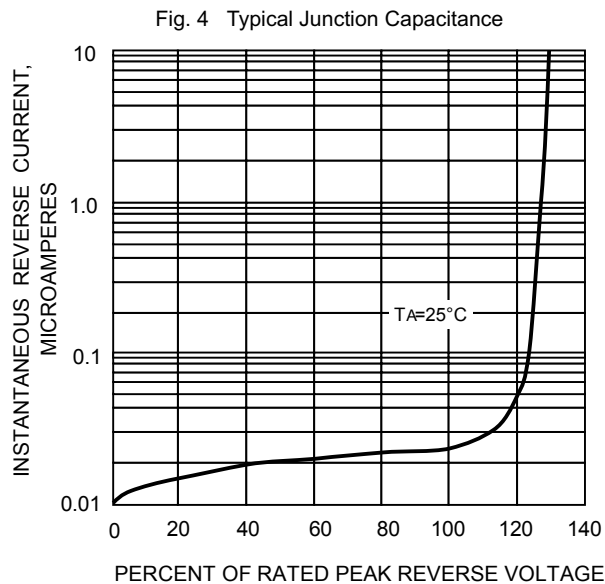
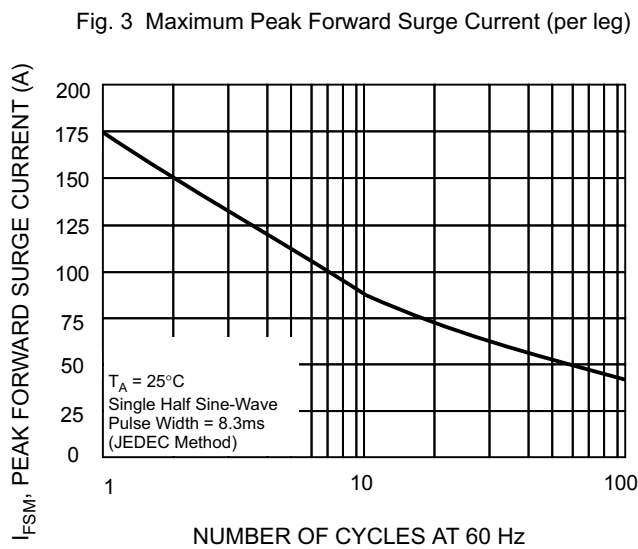
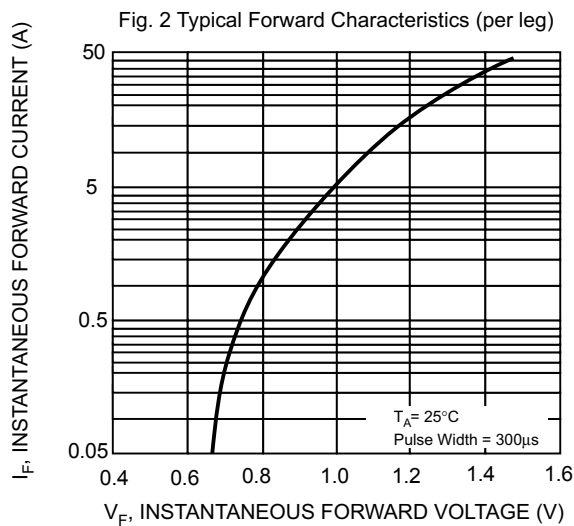
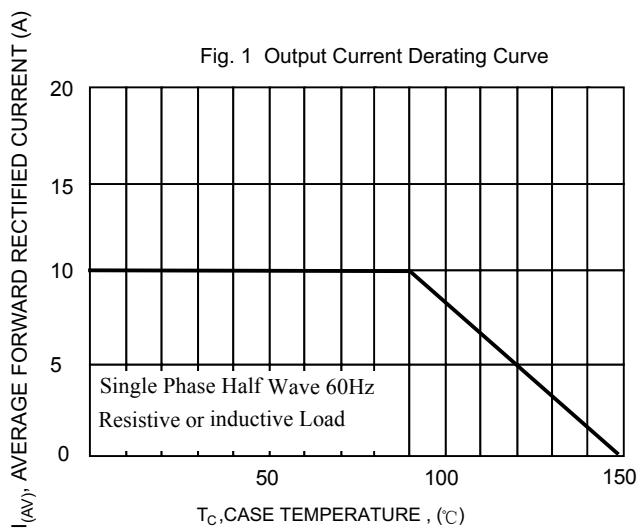
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

3. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)



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