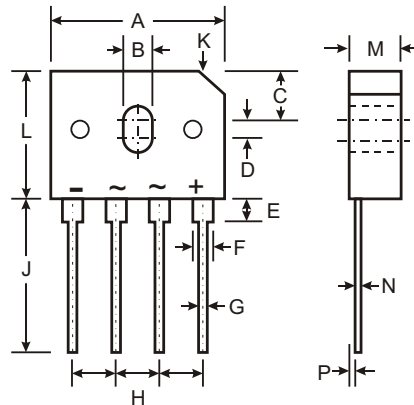


Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500VRMS
- Low Reverse Leakage Current
- Surge Overload Rating to 150A Peak
- Ideal for Printed Circuit Board Applications
- Plastic Material: UL Flammability Classification Rating 94V-0
- UL Listed Under Recognized Component Index, File Number E94661

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Marked on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 Inch-pounds Maximum
- Marking: Date Code and Type Number
- Weight: 6.6 grams (approx.)



| 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 |
| G | 1.02 | 1.27 |
| H | 4.83 | 5.33 |
| J | 17.5 | 18.0 |
| K | 3.2 X 45° | |
| L | 18.3 | 18.8 |
| M | 3.30 | 3.56 |
| N | 0.46 | 0.56 |
| P | 0.76 | 1.0 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| Characteristic | Symbol | GBU 4005 | GBU 401 | GBU 402 | GBU 404 | GBU 406 | GBU 408 | GBU 410 | Unit |
|---|--|-------------|---------|---------|---------|---------|---------|---------|------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V _{RRM} V _{RWM} V _R | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | V _{R(RMS)} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1) @ T _C = 100°C | I _O | 4.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 150 | | | | | | | A |
| Forward Voltage (per element) @ I _F = 2.0A | V _{FM} | 1.0 | | | | | | | V |
| Peak Reverse Current @ T _C = 25°C at Rated DC Blocking Voltage @ T _C = 125°C | I _R | 5.0 50 | | | | | | | μA |
| I ² t Rating for Fusing (Note 2) | I ² t | 93 | | | | | | | A ² s |
| Typical Junction Capacitance per Element (Note 3) | C _J | 80 | | | | | | | pF |
| Typical Thermal Resistance Junction to Case (Note 1) | R _{θJC} | 2.2 | | | | | | | °C/W |
| Operating and Storage Temperature Range | T _J , T _{STG} | -55 to +150 | | | | | | | °C |

- Notes:
1. Unit mounted on 50mm x 50mm x 1.6mm copper plate heatsink.
 2. Non-repetitive, for t > 1.0ms and < 8.3ms.
 3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

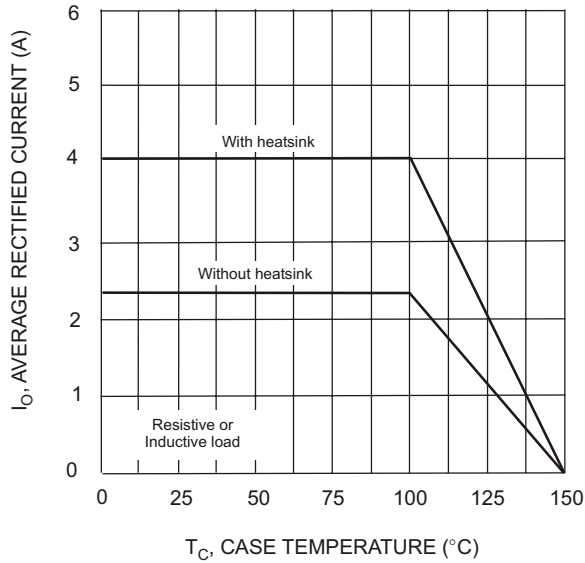


Fig. 1 Forward Current Derating Curve

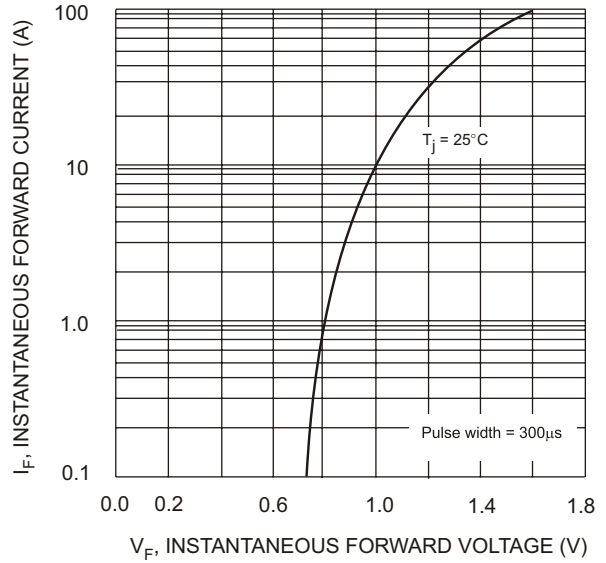


Fig. 2 Typical Fwd Characteristics

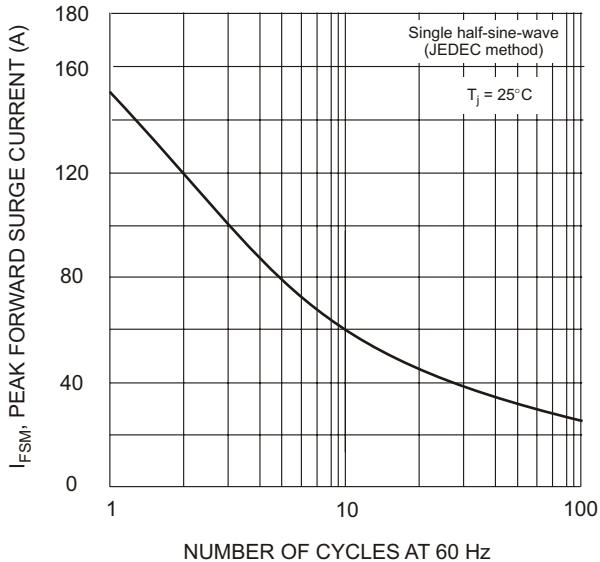


Fig. 3 Maximum Non-Repetitive Surge Current

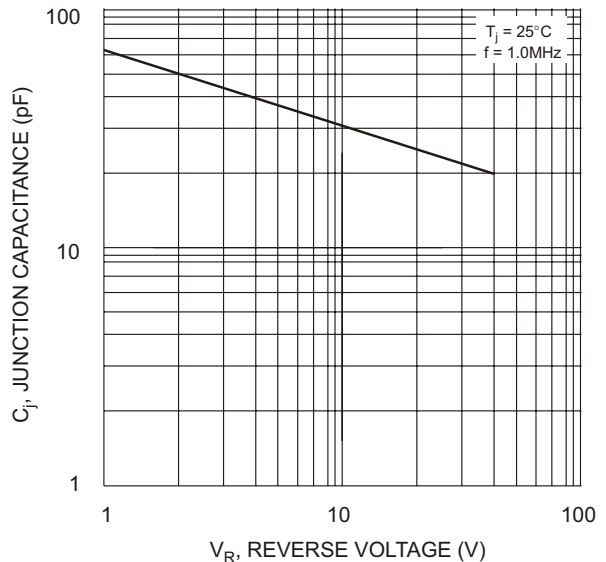


Fig. 4 Typical Junction Capacitance



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