

GBU6005 THRU GBU610

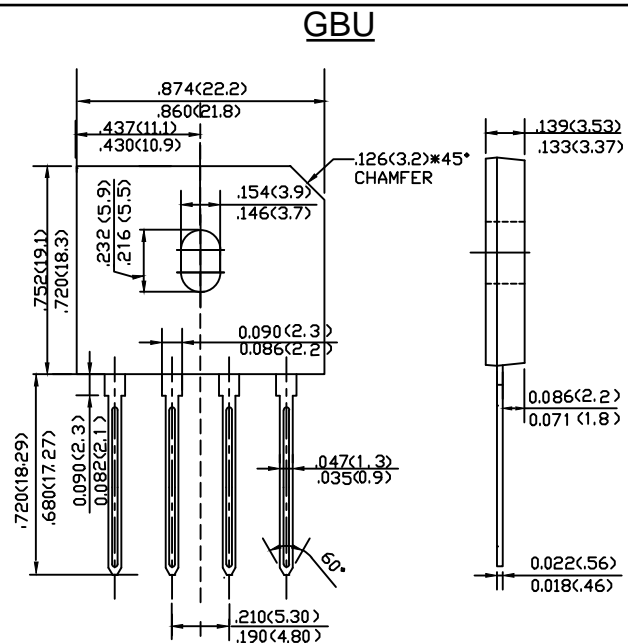
SINGLE PHASE 6.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: GBU, molded plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



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.

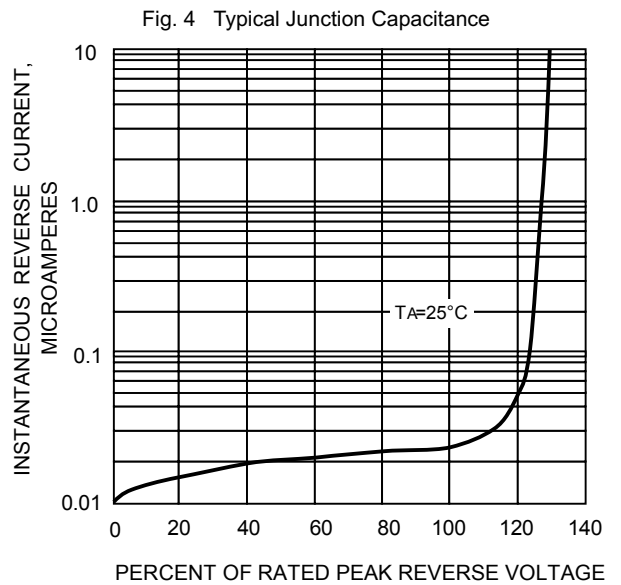
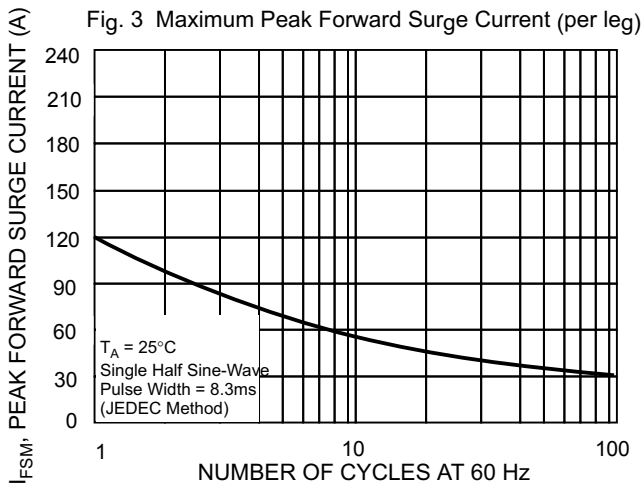
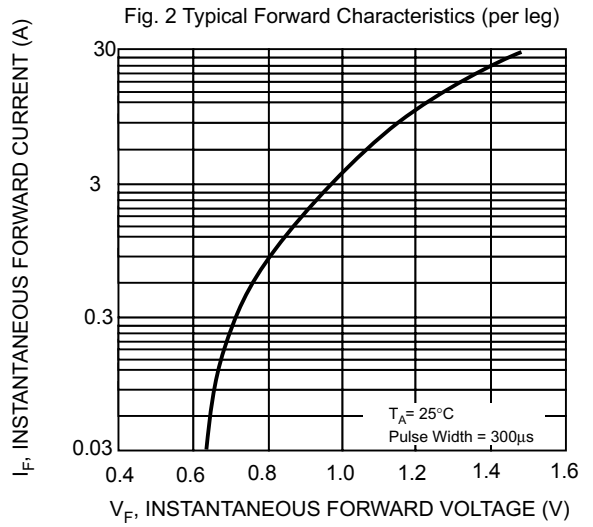
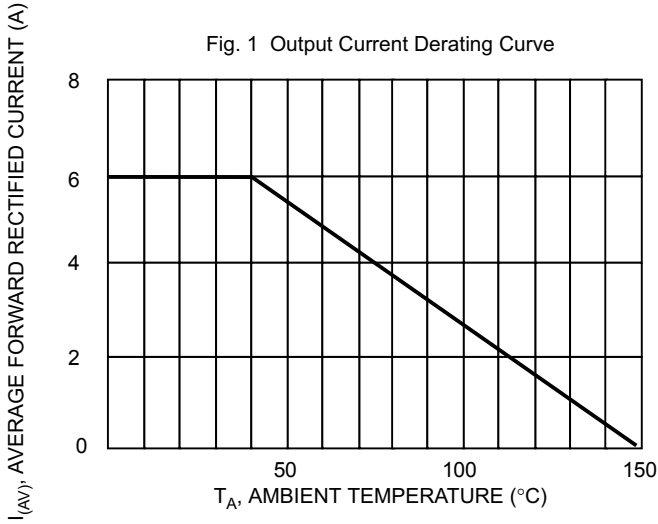
For capacitive load, derate current by 20%.

| TYPE NUMBER | SYMBOL | GBU 6005 | GBU 601 | GBU 602 | GBU 604 | GBU 606 | GBU 608 | GBU 610 | 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)@ $T_A=40^\circ\text{C}$ | I_o | 6.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 120 | | | | | | | A |
| Forward Voltage per element @ $I_F=3\text{A}$ @ $I_F=6\text{A}$ | V_{FM} | 1.0 1.1 | | | | | | | V |
| Peak Reverse Current @ $T_A=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$ | I_R | 5.0 500 | | | | | | | μA |
| Typical Junction Capacitance per leg | C_J | 65 | | | | | | | pF |
| Typical Thermal Resistance per leg (Note 2) | $R_{\theta JA}$ | 17 | | | | | | | $^\circ\text{C}/\text{W}$ |
| | $R_{\theta JL}$ | 2.2 | | | | | | | |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55to+150 | | | | | | | $^\circ\text{C}$ |

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.

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