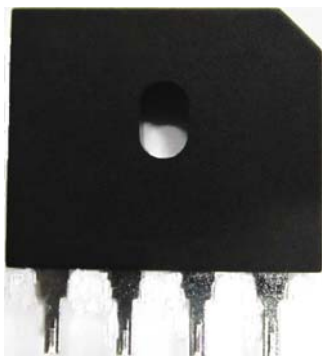




## Glass Passivated Single Phase Bridge Rectifiers

**Reverse Voltage** 200 to 1000V  
**Forward Current** 4.0 Amp

### Features

- Glass passivated die construction
- Ideal for printed circuit boards
- Plastic material used carries UL flammability recognition 94V-0
- High surge current capability
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

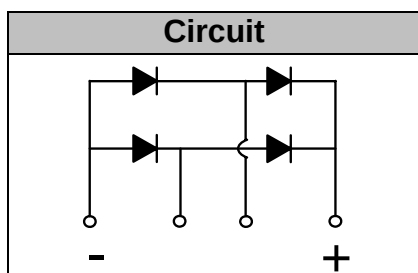
### Mechanical Data

**Case:** Molded plastic case

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Polarity:** Marked on Body

**Mounting Position:** Any



### Module Type

| TYPE   | VRRM  | VRSRM |
|--------|-------|-------|
| GBU402 | 200V  | 300V  |
| GBU404 | 400V  | 500V  |
| GBU406 | 600V  | 700V  |
| GBU408 | 800V  | 900V  |
| GBU410 | 1000V | 1100V |

### Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

| Symbol           | Conditions                                                                                 | Values                                  | Units            |
|------------------|--------------------------------------------------------------------------------------------|-----------------------------------------|------------------|
| IF(AV)           | Maximum average forward output rectified current Tc = 100°C                                | 4.0 <sup>(1)</sup>                      | A                |
| IFSM             | Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) | 150                                     | A                |
| i <sup>2</sup> t | Rating for fusing (t<8.3ms)                                                                | 93                                      | A <sup>2</sup> s |
| Visol            | a.c. 50HZ; r.m.s.; 1min                                                                    | 2500                                    | V                |
| RθJA<br>RθJC     | Maximum thermal resistance per leg                                                         | 22 <sup>(2)</sup><br>4.2 <sup>(3)</sup> | °C/W             |
| Tj, TSTG         | Operating Junction and storage temperature range                                           | -55 to +150                             | °C               |
| Weight           | Approximate Weight                                                                         | 3.8                                     | g                |

### Electrical Characteristics (TA = 25°C unless otherwise noted)

| Symbol | Conditions                                                                                 | Values     | Units |
|--------|--------------------------------------------------------------------------------------------|------------|-------|
| VF     | Maximum Instantaneous Forward Voltage per leg IFM = 4.0A                                   | 1.0        | V     |
| IR     | Maximum DC reverse current at rated DC blocking voltage per leg<br>TA = 25°C<br>TA = 125°C | 5.0<br>500 | μA    |

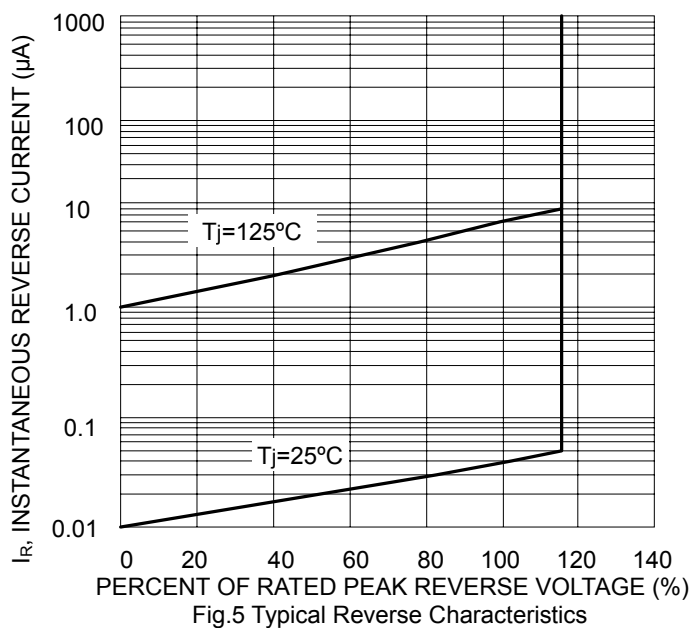
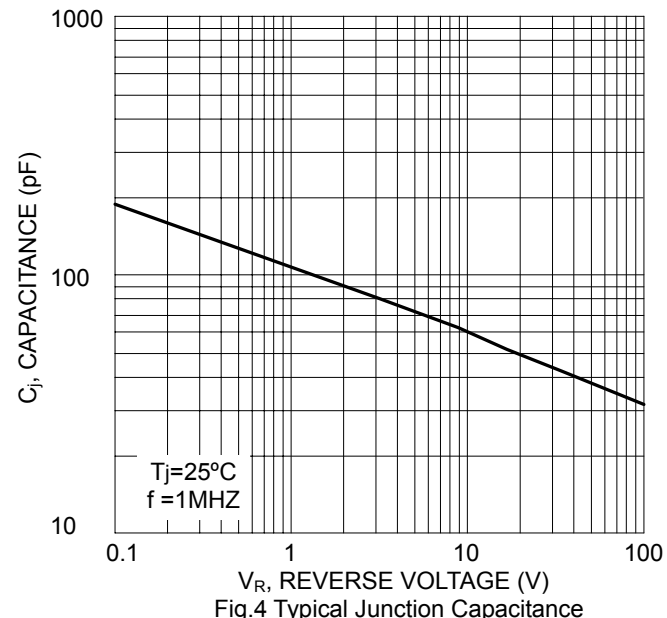
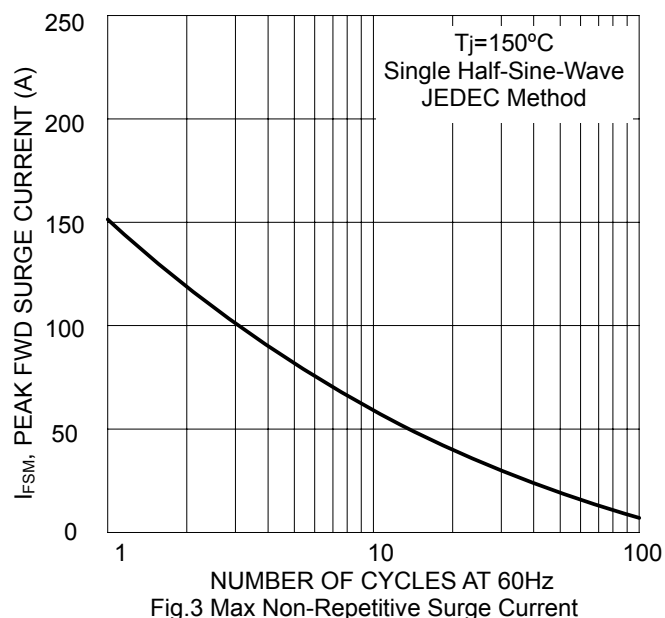
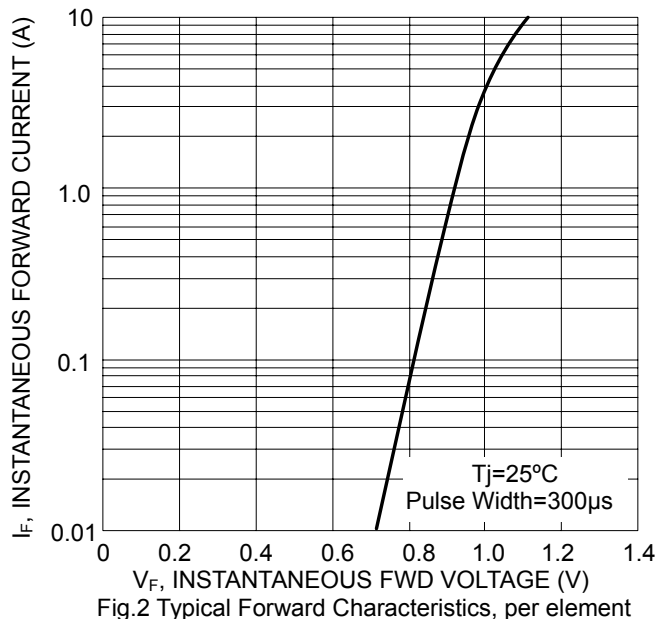
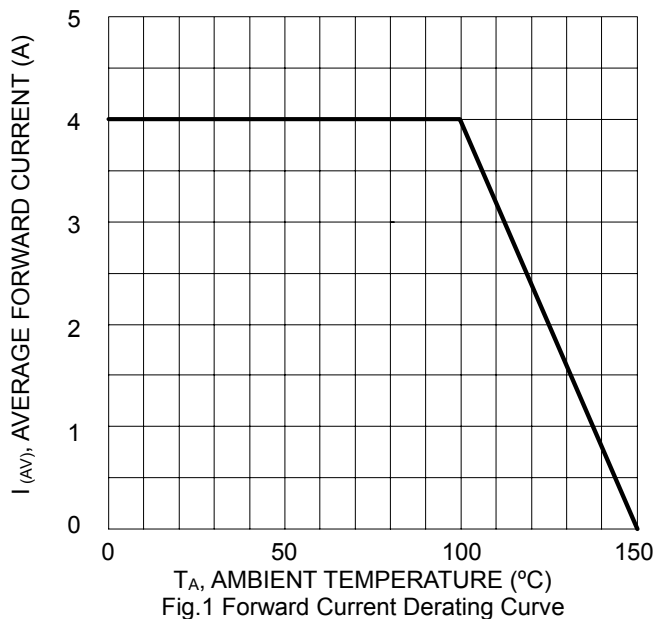
Notes: (1) Heat sink, Tc mounting-4x4x0.15cm thick copper plate

(2) Junction to ambient without heatsink

(3) Junction to case with heatsink

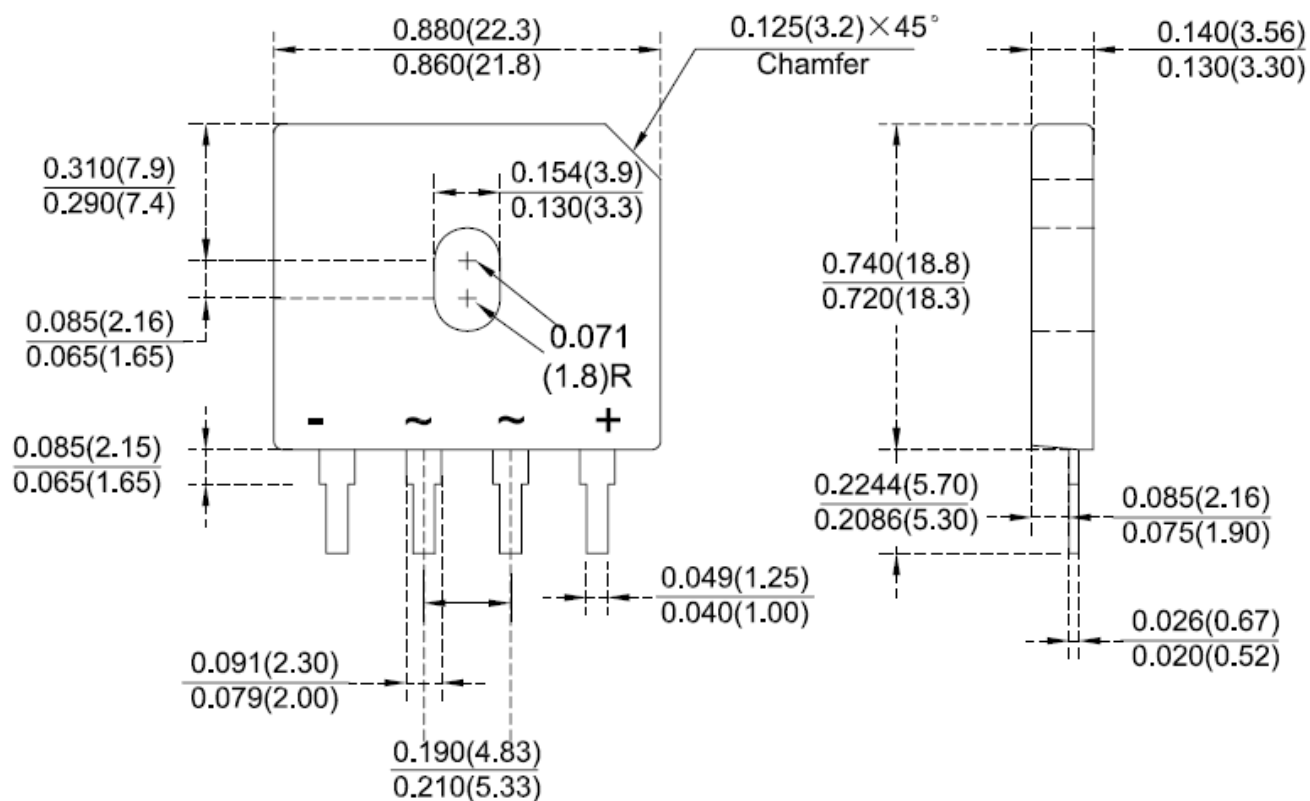
(4) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw

## Performance Curves



## Package Outline Information

### CASE: GBU-L



Dimensions in inches (mm)