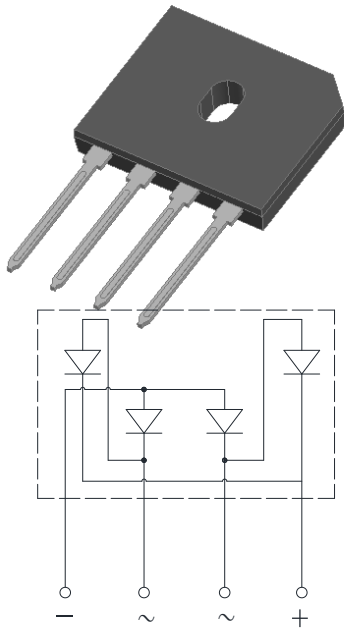


## Bridge Rectifier



### Features

- UL recognition, file #E230084
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

### Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

### Mechanical Data

- **Package:** GBU  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

### ■Maximum Ratings (Ta=25°C Unless otherwise specified)

| PARAMETER   | SYMBOL                       | UNIT             | GBU15005  | GBU1501 | GBU1502 | GBU1504 | GBU1506 | GBU1508 | GBU1510 |
|---|------------------------------|------------------|-----------|---------|---------|---------|---------|---------|---------|
| Device marking code   |                              |                  | GBU15005  | GBU1501 | GBU1502 | GBU1504 | GBU1506 | GBU1508 | GBU1510 |
| Repetitive peak reverse voltage   | VRRM                         | V                | 50        | 100     | 200     | 400     | 600     | 800     | 1000    |
| Average rectified output current @60Hz sine wave, R-load                    | With heatsink<br>Tc =100°C   | IO               | A         | 15.0    |         |         |         |         |         |
|   | Without heatsink<br>Ta =25°C |                  |           | 3.2     |         |         |         |         |         |
| Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C | IFSM                         | A                | 200       |         |         |         |         |         |         |
| Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode              | I <sup>2</sup> t             | A <sup>2</sup> S | 166       |         |         |         |         |         |         |
| Storage temperature   | Tstg                         | °C               | -55 ~+150 |         |         |         |         |         |         |
| Junction temperature  | Tj                           | °C               | -55 ~+150 |         |         |         |         |         |         |
| Dielectric strength @terminals to case, AC 1 minute                         | Vdis                         | KV               | 2.5       |         |         |         |         |         |         |
| Mounting torque @recommend torque: 5kg.cm                                   | Tor                          | kg.cm            | 8         |         |         |         |         |         |         |

### ■Electrical Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER   | SYMBOL | UNIT | TEST CONDITIONS | GBU15005 | GBU1501 | GBU1502 | GBU1504 | GBU1506 | GBU1508 | GBU1510 |
|---|--------|------|-----------------|----------|---------|---------|---------|---------|---------|---------|
| Maximum instantaneous forward voltage drop per diode              | VF     | V    | IFM=7.5A        | 1.00     |         |         |         |         |         |         |
| Maximum DC reverse current at rated DC blocking voltage per diode | IRRM   | µA   | VRM=VRRM        | 5        |         |         |         |         |         |         |



# GBU15005 THRU GBU1510

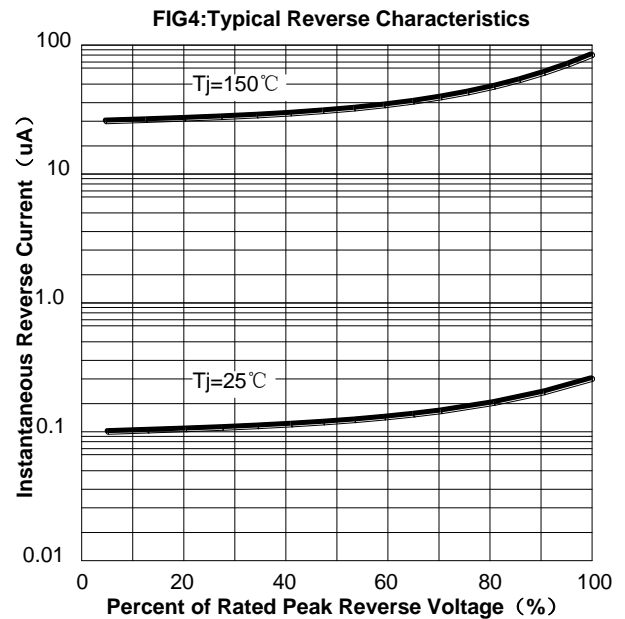
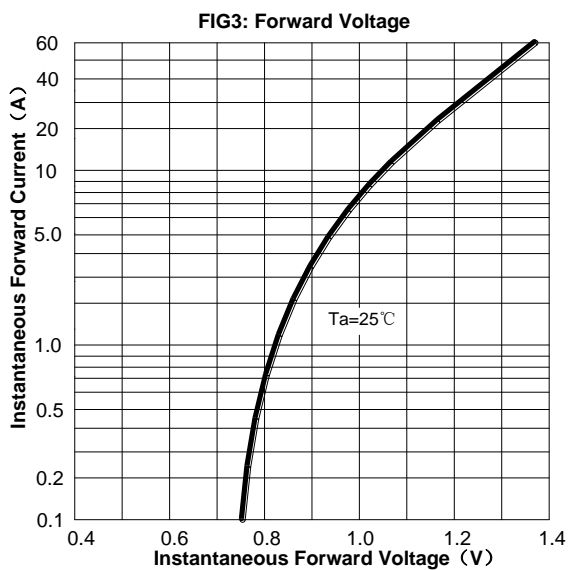
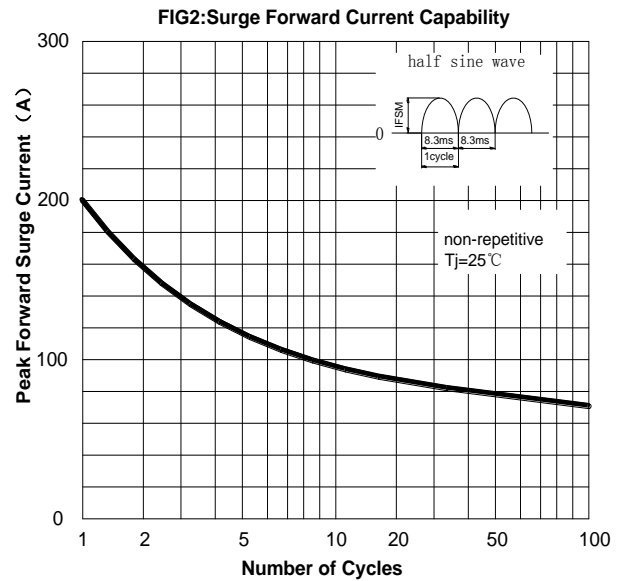
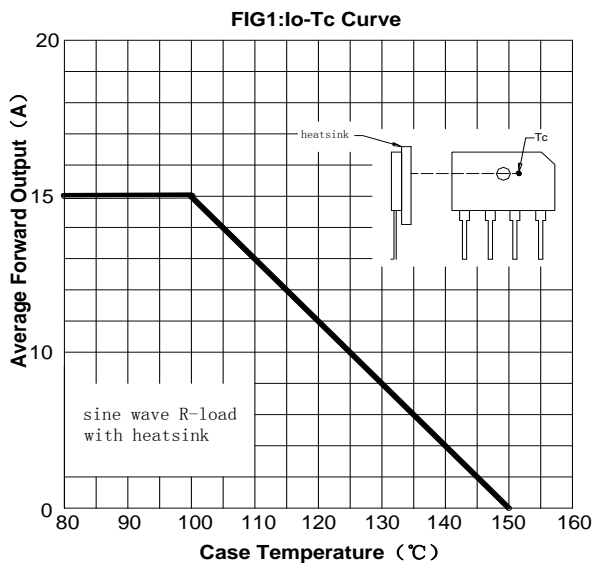
## ■ Thermal Characteristics ( $T_a=25^{\circ}\text{C}$ Unless otherwise specified)

| PARAMETER          |  | SYMBOL           | UNIT                        | GBU15005 | GBU1501 | GBU1502 | GBU1504 | GBU1506 | GBU1508 | GBU1510 |
|--------------------|--|------------------|-----------------------------|----------|---------|---------|---------|---------|---------|---------|
| Thermal Resistance | Between junction and ambient, Without heatsink | $R_{\theta J-A}$ | $^{\circ}\text{C}/\text{W}$ | 23.0     |         |         |         |         |         |         |
|                    | Between junction and case, With heatsink       | $R_{\theta J-C}$ |                             | 1.8      |         |         |         |         |         |         |

## ■ Ordering Information (Example)

| PREFERRED P/N         | PACKING CODE | UNIT WEIGHT(g)   | MINIIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|-----------------------|--------------|------------------|-----------------------|-------------------------|----------------------------|---------------|
| GBU15005 THRU GBU1510 | B1           | Approximate 3.97 | 20                    | 1000                    | 2000                       | TUBE          |

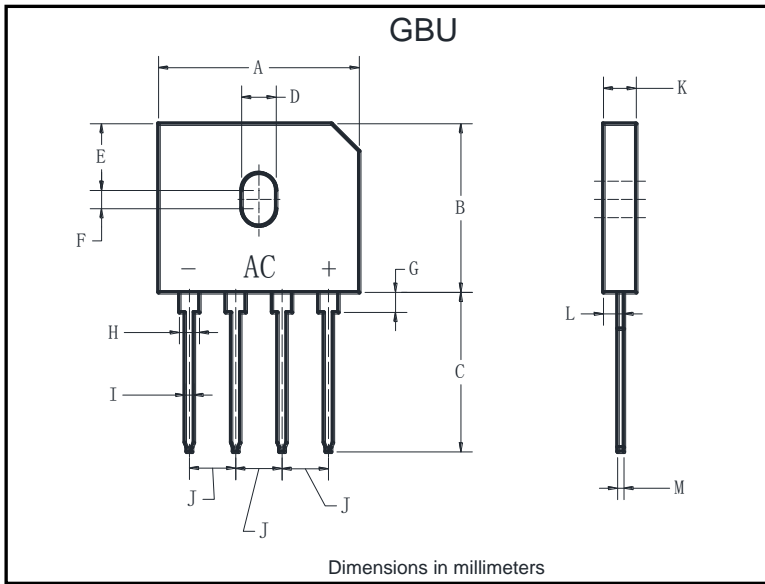
## ■ Characteristics (Typical)





# GBU15005 THRU GBU1510

## ■ Outline Dimensions



| GBU |       |       |
|-----|-------|-------|
| Dim | Min   | Max   |
| A   | 21.80 | 22.30 |
| B   | 18.30 | 18.80 |
| C   | 17.50 | 18.00 |
| D   | 3.50  | 4.10  |
| E   | 7.40  | 7.90  |
| F   | 1.65  | 2.16  |
| G   | 1.91  | 2.54  |
| H   | 2.06  | 2.54  |
| I   | 1.02  | 1.27  |
| J   | 4.83  | 5.33  |
| K   | 3.30  | 3.56  |
| L   | 2.40  | 2.66  |
| M   | 0.46  | 0.56  |



## GBU15005 THRU GBU1510

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