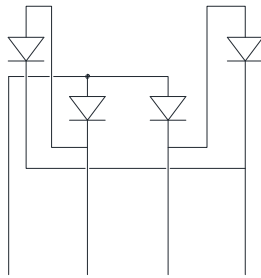
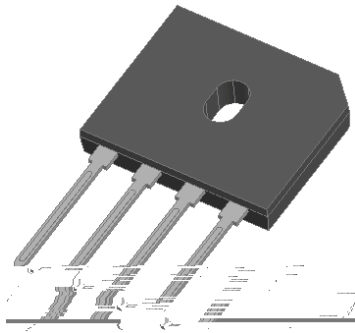


## Low VF Bridge Rectifiers



### Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Low VF
- 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
- **Pola**

|                                                                               | Without heatsink<br>Ta =25 |                  |  |            |
|-------------------------------------------------------------------------------|----------------------------|------------------|--|------------|
|                                                                               |                            |                  |  | 3.6        |
| Forward Surge Current (Non-repetitive)<br>@60Hz Half-sine wave,1 cycle, Tj=25 | IFSM                       | A                |  | 220        |
| Forward Surge Current (Non-repetitive)<br>@1ms, square wave, 1 cycle, Tj=25   |                            |                  |  | 440        |
| Current squared time<br>@1ms≤t≤8.3ms Tj=25 , Rating of per diode              | I <sup>2</sup> t           | A <sup>2</sup> S |  | 200        |
| Storage temperature                                                           | Tstg                       |                  |  | -55 ~ +150 |
| Junction temperature                                                          | Tj                         |                  |  | -55 ~ +150 |
| Dielectric strength<br>@ Terminals to case, AC 1 minute                       | Vdis                       | KV               |  | 2.5        |
| Mounting torque<br>@Recommend torque 5kg cm                                   | Tor                        | kg cm            |  | 8          |

### ■Electrical Characteristics Ta=25 Unless otherwise specified

| PARAMETER                                                         | SYMBOL | UNIT | TEST CONDITIONS                                           | GBUL1008A |
|-------------------------------------------------------------------|--------|------|-----------------------------------------------------------|-----------|
| Maximum instantaneous forward voltage drop per diode              | VF     | V    | IFM=5.0A                                                  | 0.92      |
| Maximum DC reverse current at rated DC blocking voltage per diode | IR     | μA   | Tj =25                                                    | 5         |
|                                                                   |        |      | Tj =125                                                   | 100       |
| Typical junction capacitance                                      | Cj     | pF   | Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C | 110       |



## GBUL1008A

### ■ Thermal Characteristics $T_a=25$ Unless otherwise specified

| PARAMETER          |                                                   | SYMBOL           | UNIT | GBUL1008A |
|--------------------|---------------------------------------------------|------------------|------|-----------|
| Thermal Resistance | Between junction and ambient,<br>Without heatsink | $R_{\theta J-A}$ | /W   | 25        |
|                    | Between junction and case,<br>With heatsink       | $R_{\theta J-C}$ |      | 2         |

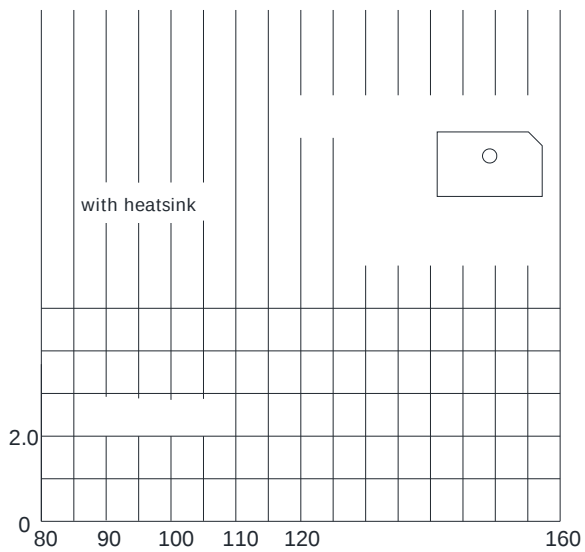
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

### ■ Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g)   | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---------------|--------------|------------------|----------------------|-------------------------|----------------------------|---------------|
| GBUL1008A     | B1           | Approximate 3.97 | 20                   | 1000                    | 2000                       | TUBE          |

### ■ Characteristics (Typical)

FIG1:  $I_o$ - $T_c$  Curve





■ Outline Dimensions



Dimensions in millimeters

| 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  |



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