



# GBU 10A/15A SERIES

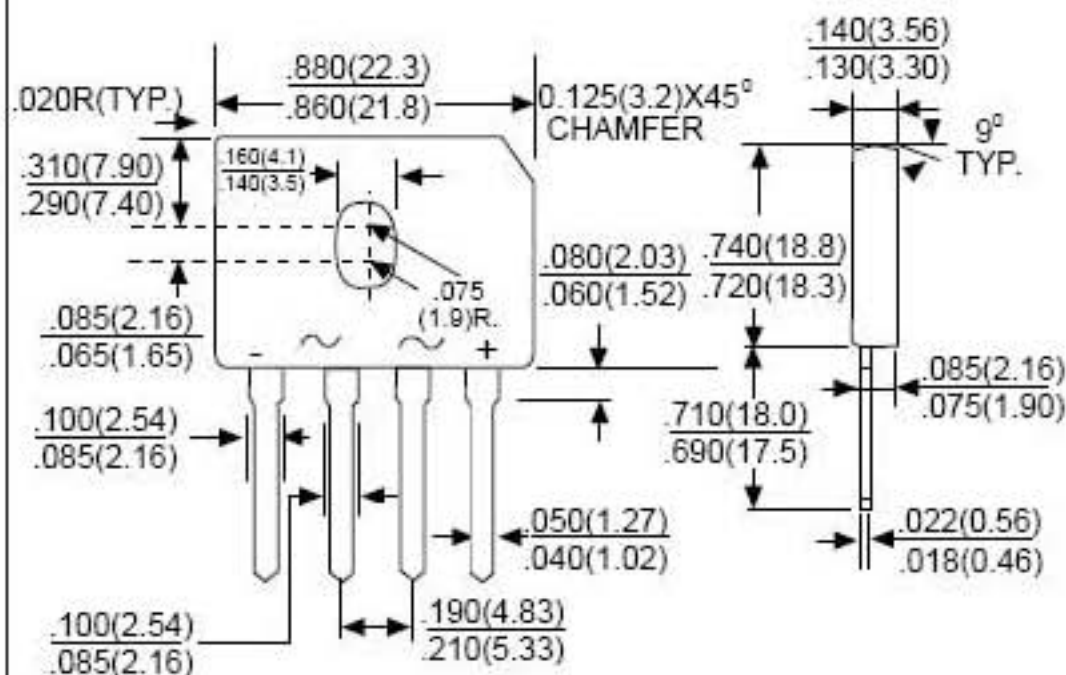
**SINGLE PHASE 10/15/25/35AMPS.  
GLASS PASSIVATED BRIDGE  
RECTIFIERS**

**Voltage Range  
50 to 1000 Volts  
Current  
10/15 Amperes**

**FEATURES**

- Surge overload rating - 250 ~ 400 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory Flammability classification 94 V-0
- Mounting position: Any

**GBU**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 50Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

| Type Number  |                  | GBU        | GBU  | GBU  | GBU         | GBU  | GBU  | UNITS |                  |
|--|------------------|------------|------|------|-------------|------|------|-------|------------------|
|  |                  | 10005      | 1001 | 1002 | 1004        | 1006 | 1008 |       | 1010             |
|  |                  | 15005      | 1501 | 1502 | 1504        | 1506 | 1508 | 1510  |                  |
|  |                  | 25005      | 2501 | 2502 | 2504        | 2506 | 2508 | 2510  |                  |
|  |                  | 35005      | 3501 | 3502 | 3504        | 3506 | 3508 | 3510  |                  |
| Maximum Repetitive Peak Reverse Voltage  | VRRM             | 50         | 100  | 200  | 400         | 600  | 800  | 1000  | V                |
| Maximum RMS Voltage  | VRMS             | 350        | 70   | 140  | 280         | 420  | 560  | 700   | V                |
| Maximum DC Blocking Voltage  | VDC              | 50         | 100  | 200  | 400         | 600  | 800  | 1000  | V                |
| Maximum Average Forward (with heatsink Note 2) Rectified Current@Tc = 100°C (without heatsink)         | IF(AV)           |            |      |      | 10<br>3.6   |      |      |       | A                |
| Peak Forward Surge Current<br>8.3ms single half sine-wave<br>super imposed on rated load(JEDEC Method) | IFSM             | 10A<br>15A |      |      | 250<br>300  |      |      |       | A                |
| Maximum Instantaneous Forward Voltage Drop Per Leg@ 5.0A/7.5A  | VF               |            |      |      | 1.1         |      |      |       | V                |
| Maximum DC Reverse Current at Rated DC Blocking Voltage  | IR               |            |      |      | 5.0<br>5.00 |      |      |       | uA               |
| TJ = 25°C<br>TJ = 125°C  |                  |            |      |      |             |      |      |       |                  |
| I <sup>2</sup> t Rating for fusing (t<8,3ms)   | I <sup>2</sup> t |            |      |      | 200         |      |      |       | A <sup>2</sup> S |
| Typical Junction Capacitance per Leg(Note 1)   | CJ               |            |      |      | 70          |      |      |       | pF               |
| Typical Thermal Resistance(Note 2)   | RθJC             |            |      |      | 2.2         |      |      |       | °C/W             |
| Operating Temperature Range  | TJ               |            |      |      | -55 to+150  |      |      |       | °C               |
| Storage Temperature Range  | TSTG             |            |      |      | -55 to+150  |      |      |       | °C               |

NOTES: 1, Measured at 1.0MHz and applied reverse voltage of 4.0 V DC,  
2.Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.

# RATING AND CHARACTERISTIC CURVES GBU10A/15A SERIES

