

**GBJ15005  
THRU  
GBJ1510**

**Features**

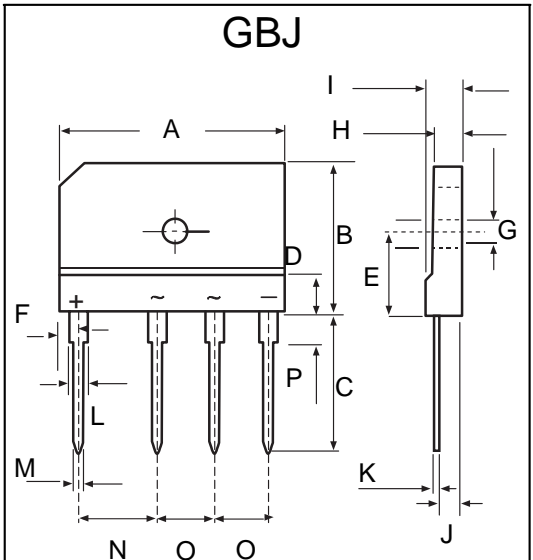
- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product

**Maximum Ratings**

Operating Temperature: -55 C to +150 C  
 Storage Temperature: -55 C to +150 C  
 Typical Thermal Resistance 0.8 C/W J to C (With heatsink)  
 Typical Thermal Resistance 3.5 C/W J to L (Without heatsink)  
 Typical Thermal Resistance C/W J to A (Without heatsink)

| GM Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-------------------|----------------|--|---------------------|-----------------------------|
| GBJ15005          | GBJ1005        | 50V                                    | 35V                 | 50V                         |
| GBJ1501           | GBJ1501        | 100V                                   | 70V                 | 100V                        |
| GBJ1502           | GBJ1502        | 200V                                   | 140V                | 200V                        |
| GBJ1504           | GBJ1504        | 400V                                   | 280V                | 400V                        |
| GBJ1506           | GBJ1506        | 600V                                   | 420V                | 600V                        |
| GBJ1508           | GBJ1508        | 800V                                   | 560V                | 800V                        |
| GBJ1510           | GBJ1510        | 1000V                                  | 700V                | 1000V                       |

**15 Amp  
Glass Passivated  
Bridge Rectifier  
50 to 1000 Volts**



DIMENSIONS

| DIM | INCHES |       | MM    |       | NOTE |
|-----|--------|-------|-------|-------|------|
|     | MIN    | MAX   | MIN   | MAX   |      |
| A   | 1.170  | 1.190 | 29.70 | 30.30 |      |
| B   | .780   | .800  | 19.70 | 20.30 |      |
| C   | .670   | .710  | 17.00 | 18.00 |      |
| D   | .019   | .019  | 4.70  | 4.90  |      |
| E   | .430   | .440  | 10.80 | 11.20 |      |
| F   | .090   | .110  | 2.30  | 2.70  |      |
| G   | .120   | .130  | 3.10  | 3.40  |      |
| H   | .130   | .150  | 3.40  | 3.80  |      |
| I   | .170   | .190  | 4.40  | 4.80  |      |
| J   | .100   | .110  | 2.50  | 2.90  |      |
| K   | .020   | .030  | 0.60  | 0.80  |      |
| L   | .080   | .090  | 2.00  | 2.40  |      |
| M   | .040   | .040  | 0.90  | 1.10  |      |
| N   | .390   | .400  | 9.80  | 10.20 |      |
| O   | .290   | .300  | 7.30  | 7.70  |      |
| P   | .150   | .170  | 3.80  | 4.20  |      |

**Electrical Characteristics @ 25 C Unless Otherwise Specified**

|   |             |                     |   |
|---|-------------|---------------------|---|
| Average Forward Current                                 | $I_{F(AV)}$ | 15 A                | $T_c = 100\text{ C}$                        |
| Peak Forward Surge Current                              | $I_{FSM}$   | 240A                | 8.3ms, half sine                            |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.05V               | $I_{FM} = 7.5A$<br>$T_J = 25\text{ C}$      |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 500uA               | $T_J = 25\text{ C}$<br>$T_J = 125\text{ C}$ |
| $I^2t$ Rating for fusing                                | $I^2t$      | 240A <sup>2</sup> S | ( $t < 8.3ms$ )                             |
| Typical Junction Capacitance                            | $C_J$       | 60 pF               | Measured at 1.0MHz, $V_R = 4.0V$            |

NOTES : 1. Pulse Test: Pulse Width 300 sec, Duty Cycle 1%  
 2. Device mounted on 300mm \* 300mm \*1.6mm Cu Plate Heatsink

**RATING AND CHARACTERISTIC CURVES**  
**GBJ15005 thru GBJ1510**

