



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

GBJ15005 THRU GBJ1510

15 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

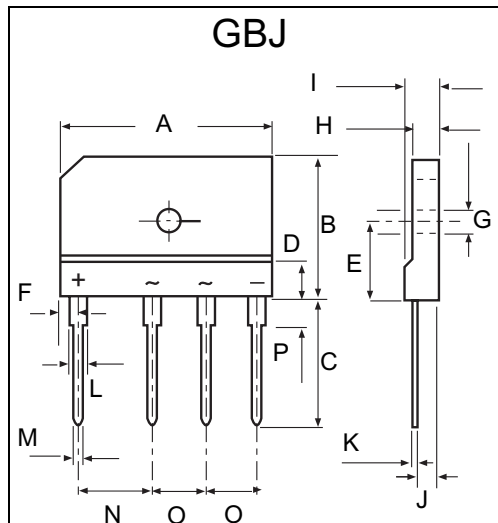
Features

- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

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 12°C/W J to A (Without heatsink)
- UL Recognized File # E165989; Mounting torque: 5in-lbs.

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| GBJ15005 | GBJ15005 | 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 |

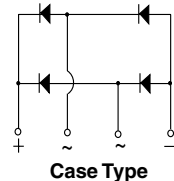


| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | 1.170 | 1.190 | 29.70 | 30.30 | |
| B | .780 | .800 | 19.70 | 20.30 | |
| C | .670 | .710 | 17.00 | 18.00 | |
| D | .019 | .019 | 4.70 | 4.90 | |
| E | .430 | .440 | 10.80 | 11.20 | |
| 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 | $T_C = 100^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 240A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.05V | $I_{FM} = 7.5\text{A}$ $T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10 μA 500 μA | $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ |
| I^2t Rating for fusing | I^2t | 240A ² S | (t<8.3ms) |
| Typical Junction Capacitance | C_J | 60 pF | Measured at 1.0MHz, $V_R=4.0\text{V}$ |

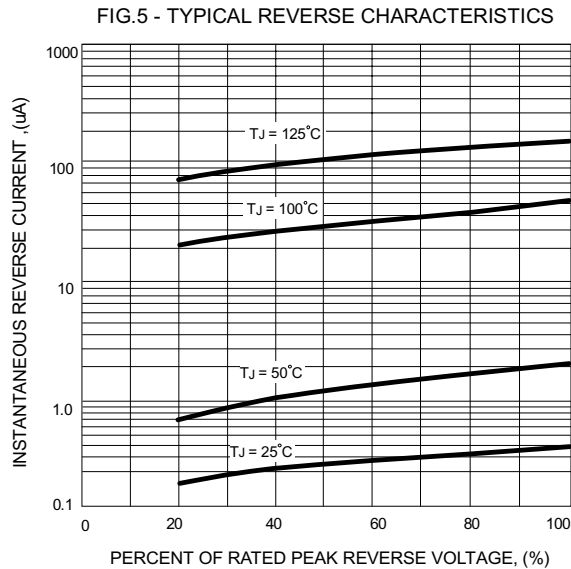
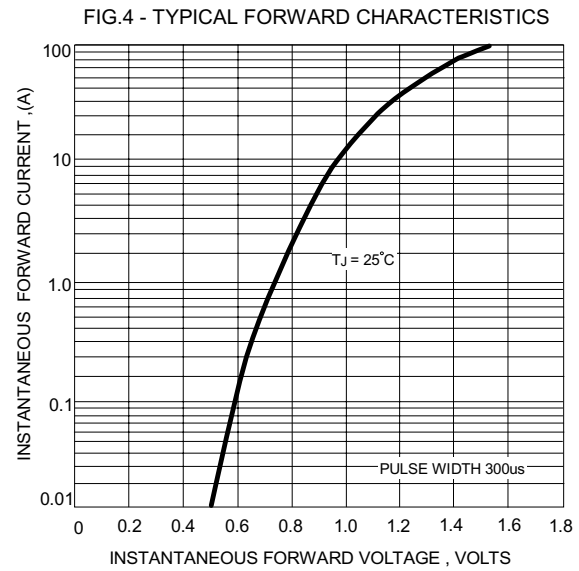
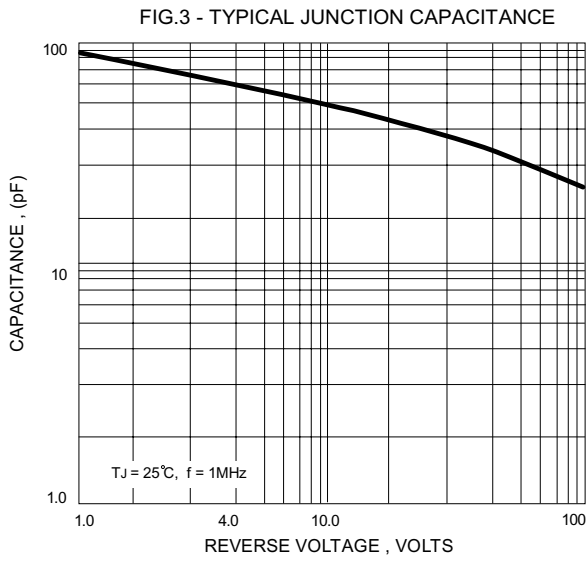
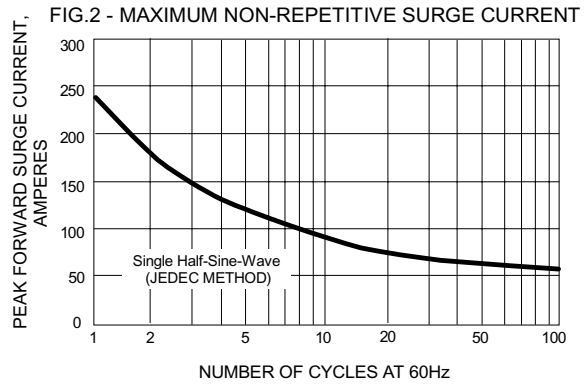
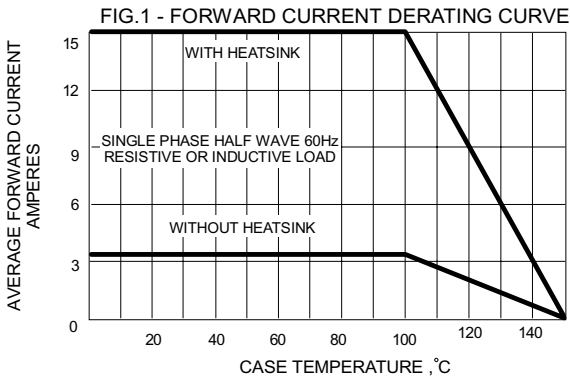
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
3. Device mounted on 300mm * 300mm * 1.6mm Cu Plate Heatsink



Case Type

www.mccsemi.com

RATING AND CHARACTERISTIC CURVES
GBJ15005 thru GBJ1510





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Ordering Information :

| Device | Packing |
|----------------|------------------|
| Part Number-BP | Bulk: 750pcs/Box |

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