



Micro Commercial Components



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## GBJL6005 THRU GBJL610

### Features

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

### Maximum Ratings

- Mounting Torque: 5.0 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|----------------------------------------|---------------------|-----------------------------|
| GBJL6005           | GBJL6005       | 50V                                    | 35V                 | 50V                         |
| GBJL601            | GBJL601        | 100V                                   | 70V                 | 100V                        |
| GBJL602            | GBJL602        | 200V                                   | 140V                | 200V                        |
| GBJL604            | GBJL604        | 400V                                   | 280V                | 400V                        |
| GBJL606            | GBJL606        | 600V                                   | 420V                | 600V                        |
| GBJL608            | GBJL608        | 800V                                   | 560V                | 800V                        |
| GBJL610            | GBJL610        | 1000V                                  | 700V                | 1000V                       |

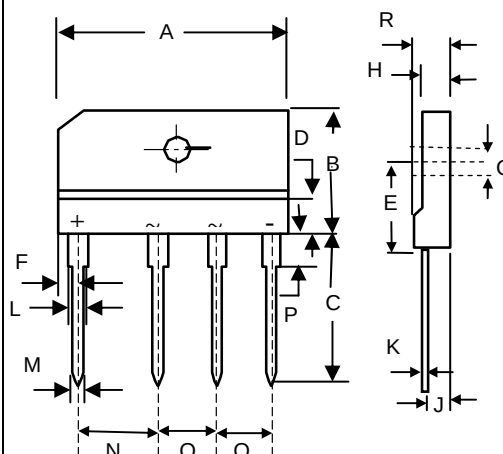
### Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |                 |                          |                                                       |
|---------------------------------------------------------|-----------------|--------------------------|-------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$     | 6 A                      | $T_c = 110^\circ\text{C}$                             |
| Peak Forward Surge Current                              | $I_{FSM}$       | 170A                     | 8.3ms, half sine                                      |
| Maximum Instantaneous Forward Voltage                   | $V_F$           | 1.0V                     | $I_{FM} = 3.0\text{A}$<br>$T_J = 25^\circ\text{C}$    |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$           | 5 $\mu\text{A}$<br>500uA | $T_J = 25^\circ\text{C}$<br>$T_J = 125^\circ\text{C}$ |
| Typical thermal resistance                              | $R_{\theta JC}$ | 1.8°C/W                  |                                                       |
| Typical Junction Capacitance                            | $C_J$           | 55 pF                    | Measured at 1.0MHz, $V_R=4.0\text{V}$                 |

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

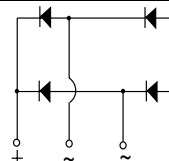
## 6 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

### GBJL



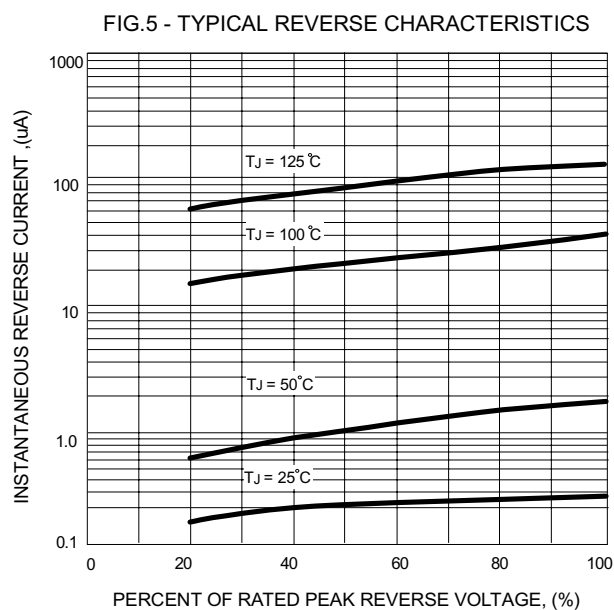
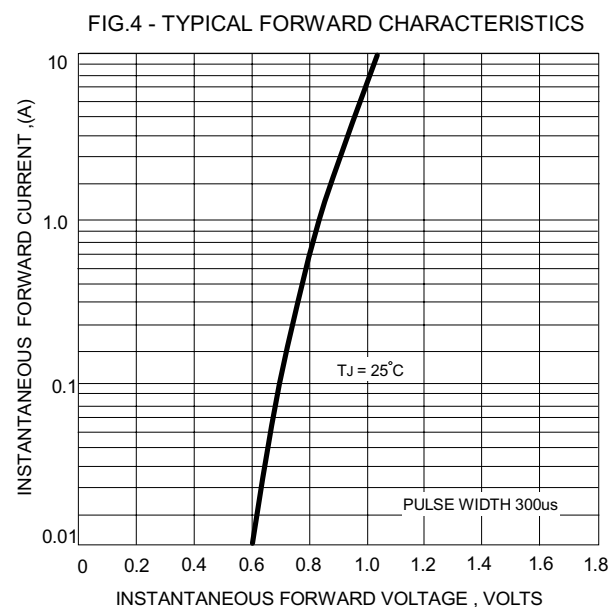
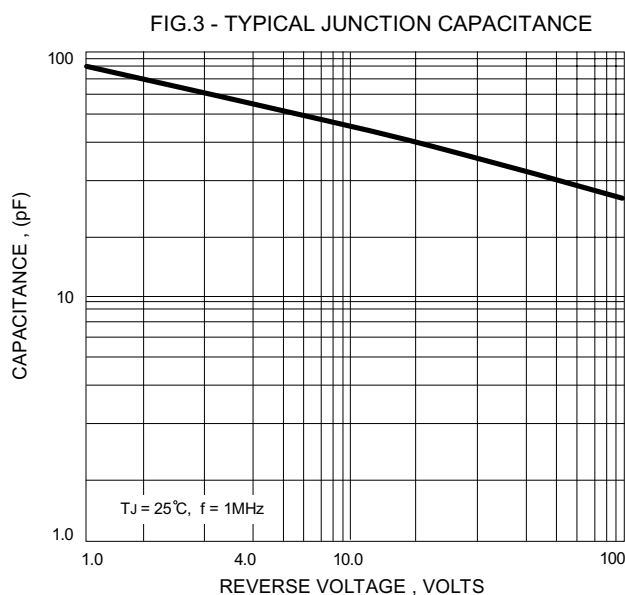
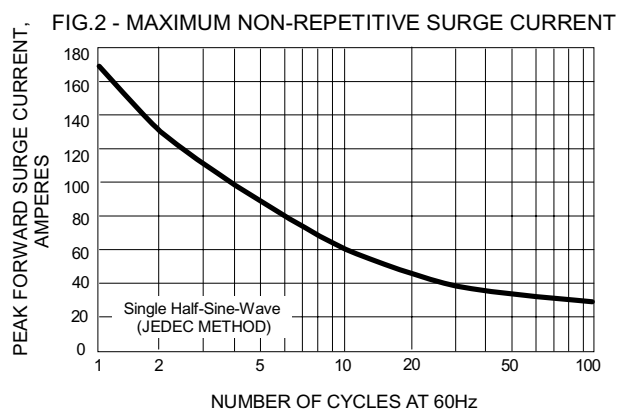
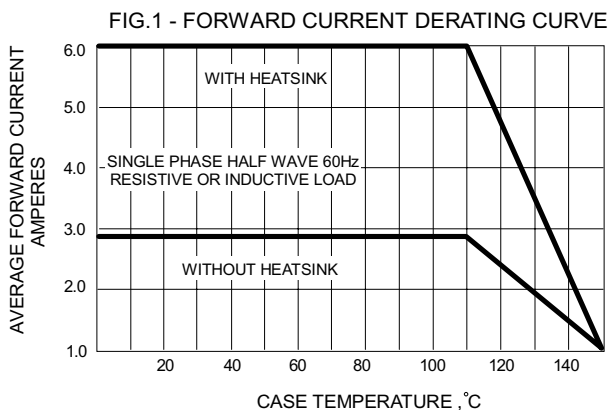
#### DIMENSIONS

| DIM | INCHES   |       | MM       |       | NOTE |
|-----|----------|-------|----------|-------|------|
|     | MIN      | MAX   | MIN      | MAX   |      |
| A   | 1.067    | 1.091 | 27.10    | 27.70 |      |
| B   | .551     | .575  | 14.00    | 14.60 |      |
| C   | .570     | .610  | 14.50    | 15.50 |      |
| D   | .071 typ |       | 1.80 typ |       |      |
| E   | .339     | .354  | 8.60     | 9.00  |      |
| F   | .071     | .087  | 1.80     | 2.20  |      |
| G   | .120     | .134  | 3.00     | 3.40  |      |
| H   | .110     | .126  | 2.80     | 3.20  |      |
| J   | .098     | .114  | 2.50     | 2.90  |      |
| K   | .012     | .028  | 0.30     | 0.70  |      |
| L   | .098     | .114  | 2.50     | 2.90  |      |
| M   | .035     | .043  | 0.90     | 1.10  |      |
| N   | .390     | .400  | 9.80     | 10.20 |      |
| O   | .290     | .300  | 7.30     | 7.70  |      |
| P   | .079     | .094  | 2.00     | 2.40  |      |
| R   | .150     | .157  | 3.60     | 4.00  |      |



Case Type

[www.mccsemi.com](http://www.mccsemi.com)



## Ordering Information :

| Device         | Packing        |
|----------------|----------------|
| Part Number-BP | Bulk; 2.2K/Ctn |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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