



Micro Commercial Components



Micro Commercial Components  
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# GBJ35005 THRU GBJ3510

## Features

- 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
- Ideal for printed circuit board

## Maximum Ratings

- Mounting Torque: 5 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

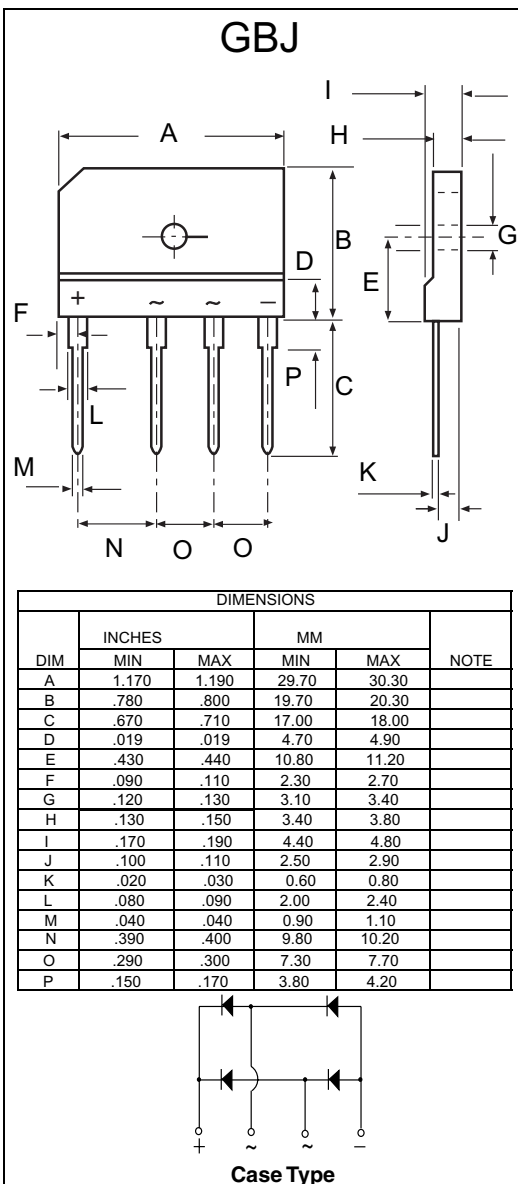
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|----------------------------------------|---------------------|-----------------------------|
| GBJ35005           | GBJ35005       | 50V                                    | 35V                 | 50V                         |
| GBJ3501            | GBJ3501        | 100V                                   | 70V                 | 100V                        |
| GBJ3502            | GBJ3502        | 200V                                   | 140V                | 200V                        |
| GBJ3504            | GBJ3504        | 400V                                   | 280V                | 400V                        |
| GBJ3506            | GBJ3506        | 600V                                   | 420V                | 600V                        |
| GBJ3508            | GBJ3508        | 800V                                   | 560V                | 800V                        |
| GBJ3510            | GBJ3510        | 1000V                                  | 700V                | 1000V                       |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |                 |                           |                                                       |
|---------------------------------------------------------|-----------------|---------------------------|-------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$     | 35 A                      | $T_C = 100^\circ\text{C}$                             |
| Peak Forward Surge Current                              | $I_{FSM}$       | 350A                      | 8.3ms, half sine                                      |
| Maximum Instantaneous Forward Voltage                   | $V_F$           | 1.05V                     | $I_{FM} = 17.5 \text{ A}$<br>$T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$           | 10 $\mu\text{A}$<br>500uA | $T_J = 25^\circ\text{C}$<br>$T_J = 125^\circ\text{C}$ |
| Typical thermal resistance                              | $R_{\theta JC}$ | 0.6°C/W                   |                                                       |
| Typical Junction Capacitance                            | $C_J$           | 85 pF                     | Measured at 1.0MHz, $V_R=4.0\text{V}$                 |

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

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



# RATING AND CHARACTERISTIC CURVES

## GBJ35005 thru GBJ3510

FIG.1 - FORWARD CURRENT DERATING CURVE

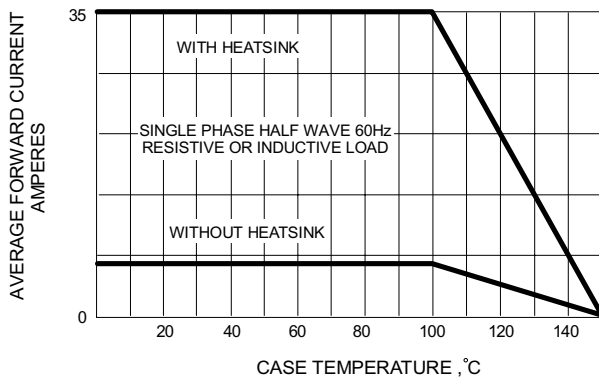


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

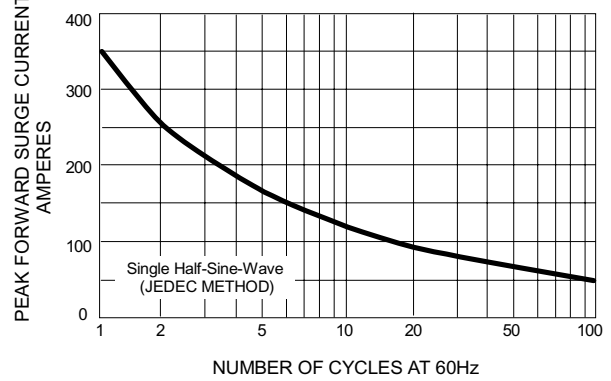


FIG.3 - TYPICAL JUNCTION CAPACITANCE

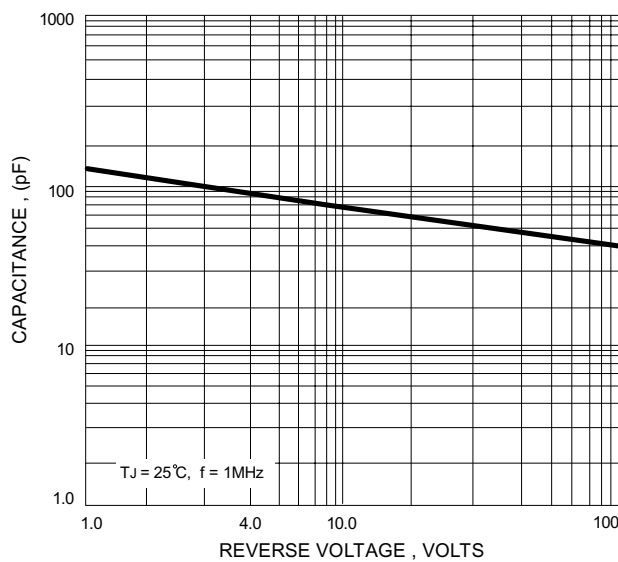


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

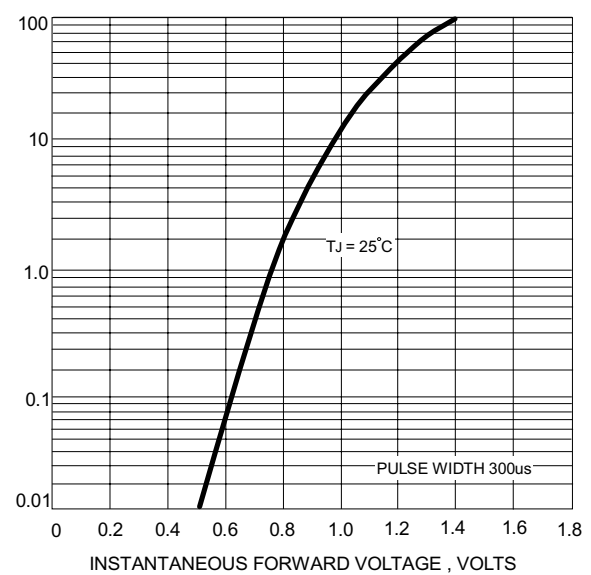
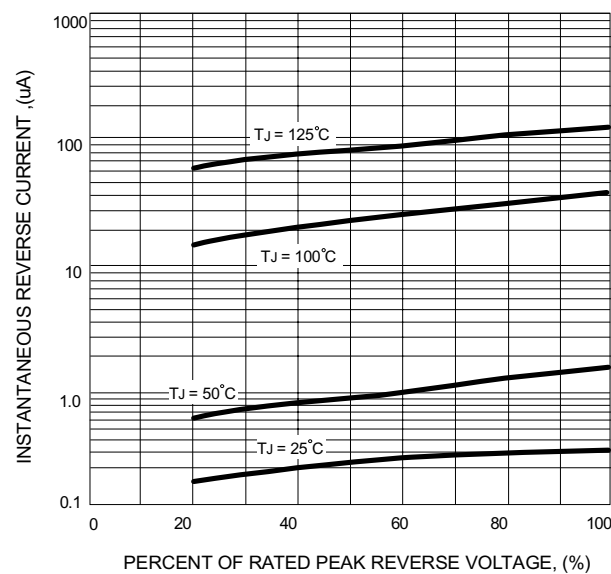


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



## Ordering Information :

| Device         | Packing        |
|----------------|----------------|
| Part Number-BP | Bulk: 1.5K/Ctn |

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