



Micro Commercial Components

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

GBJ25005 THRU GBJ2510

25 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
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 in-lbs Maximum
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

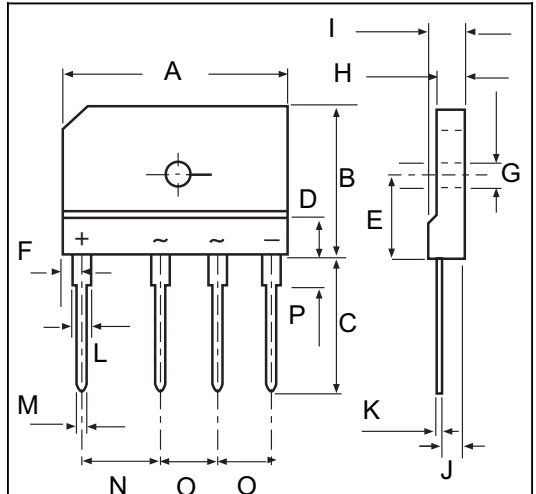
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| GBJ25005 | GBJ25005 | 50V | 35V | 50V |
| GBJ2501 | GBJ2501 | 100V | 70V | 100V |
| GBJ2502 | GBJ2502 | 200V | 140V | 200V |
| GBJ2504 | GBJ2504 | 400V | 280V | 400V |
| GBJ2506 | GBJ2506 | 600V | 420V | 600V |
| GBJ2508 | GBJ2508 | 800V | 560V | 800V |
| GBJ2510 | GBJ2510 | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

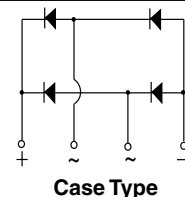
| | | | |
|---|-----------------|---------------------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 25 A | $T_C = 100^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 350A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.05V | $I_{FM} = 12.5 \text{ A}$ $T_J = 25^\circ\text{C}$ |
| 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 | 508A ² S | $t < 8.3\text{ms}$ |
| 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

GBJ



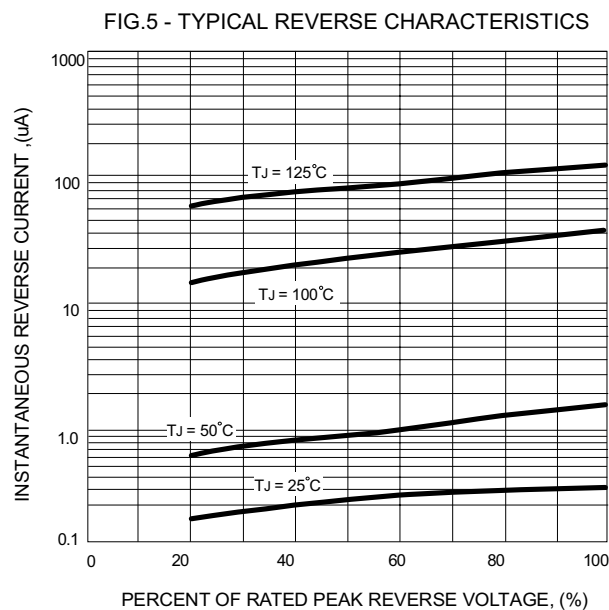
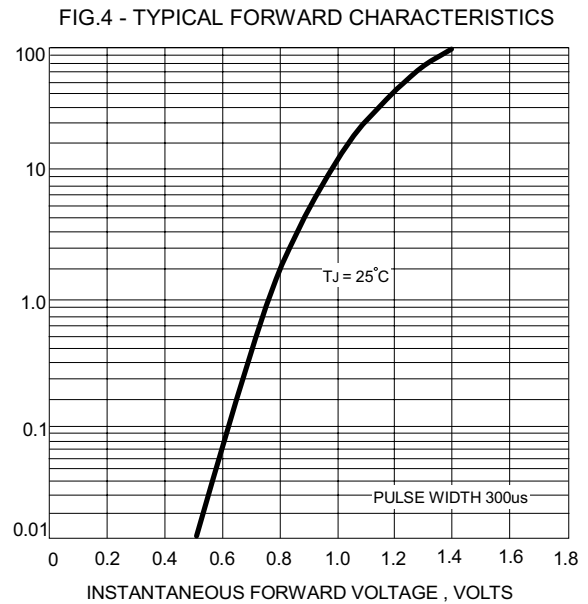
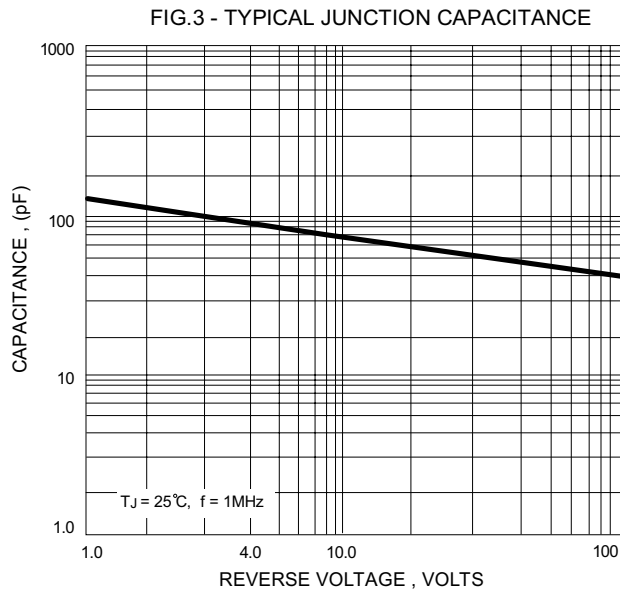
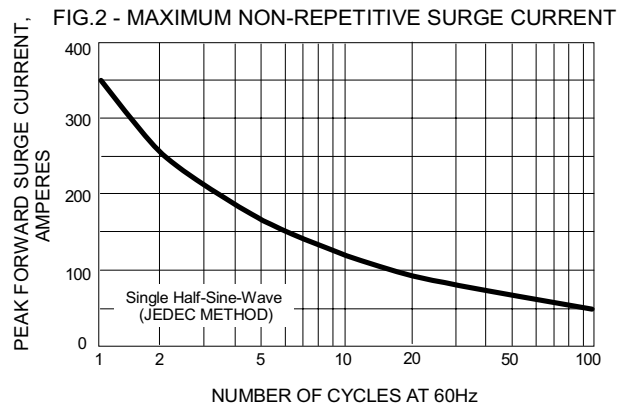
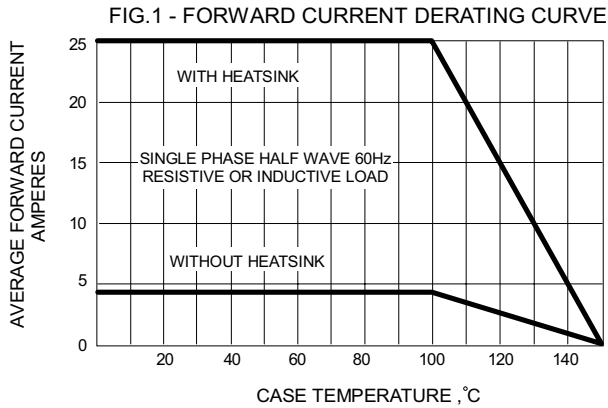
| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| A | 1.170 | 1.190 | 29.70 | 30.30 | |
| B | .780 | .800 | 19.70 | 20.30 | |
| C | .670 | .710 | 17.00 | 18.00 | |
| D | .019 | .019 | 4.70 | 4.90 | |
| E | .430 | .440 | 10.80 | 11.20 | |
| 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 | |



Case Type

www.mccsemi.com

RATING AND CHARACTERISTIC CURVES
GBJ25005 thru GBJ2510





Micro Commercial Components

Ordering Information :

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

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com