

GBJ15005 THRU GBJ1510

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
- 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
- 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.
- ESD Voltage: HBM: 4KV
 MM: 400V
 CDM: 800V

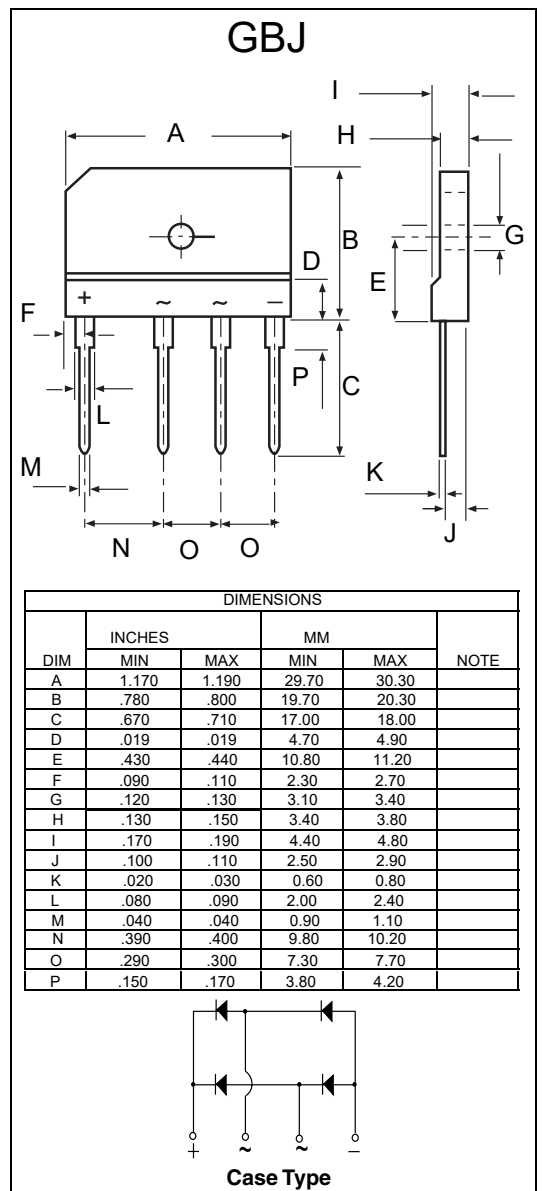
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| GBJ15005 | GBJ15005 | 50V | 35V | 50V |
| GBJ1501 | GBJ1501 | 100V | 70V | 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 |

Electrical Characteristics @ 25°C Unless Otherwise Specified

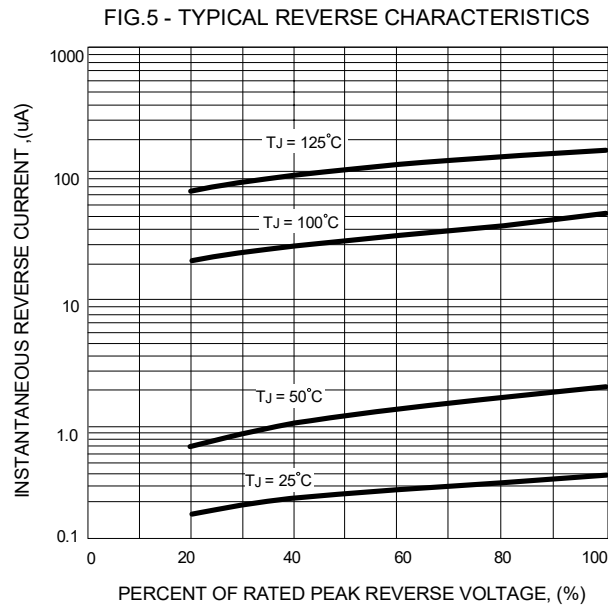
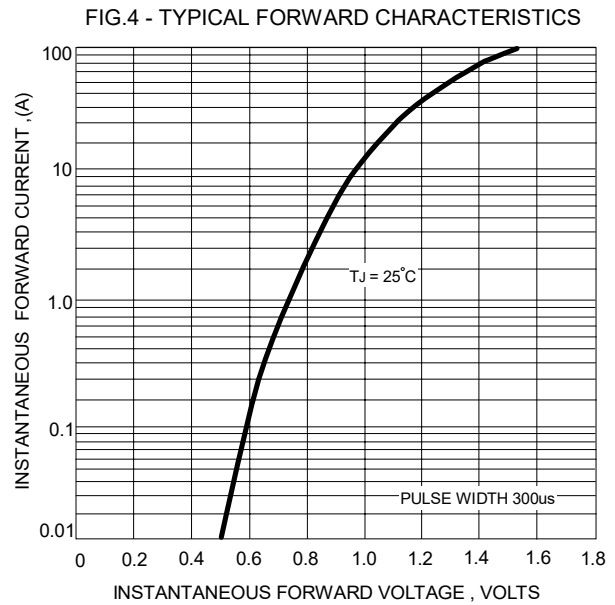
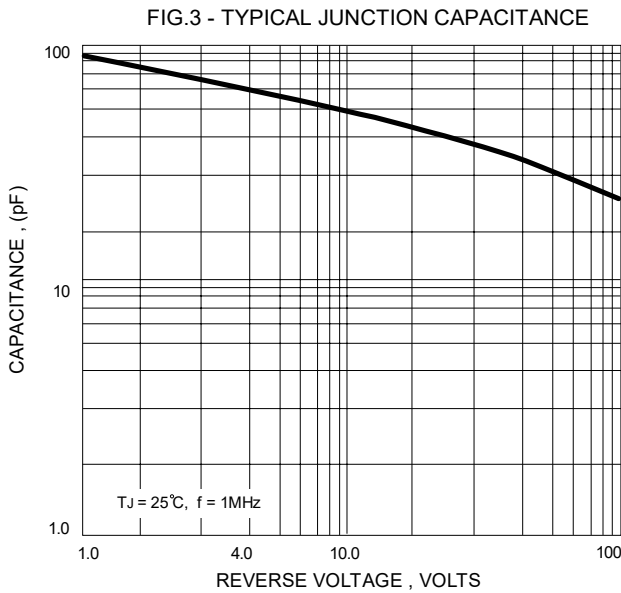
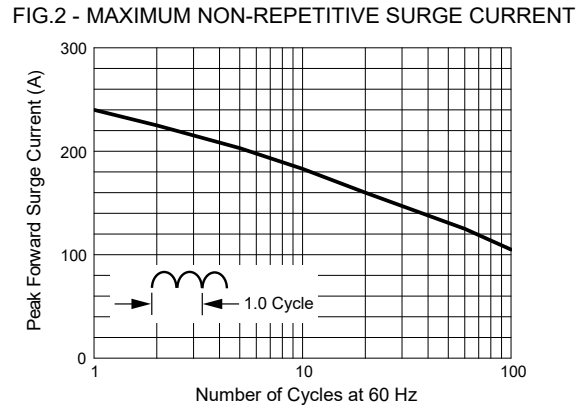
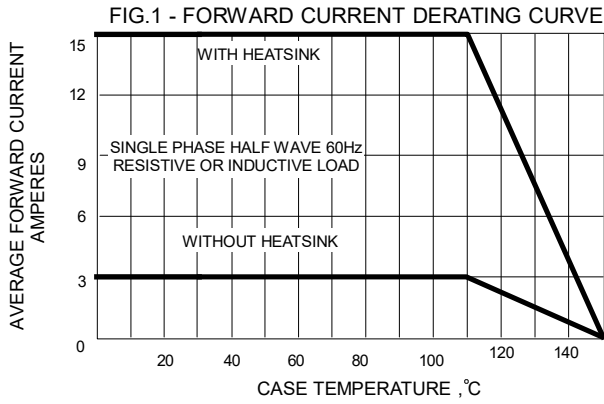
| | | | |
|---|-------------|---------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 15 A | $T_c = 110^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 240A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.0V | $I_{FM} = 7.5A$ $T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10 μA 500uA | $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ |
| I^2t Rating for fusing | I^2t | 240A ² S | ($t < 8.3\text{ms}$) |
| Typical Junction Capacitance | C_J | 60 pF | Measured at 1.0MHz, $V_R = 4.0V$ |

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

15 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts



RATING AND CHARACTERISTIC CURVES
GBJ15005 thru GBJ1510





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

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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