



Micro Commercial Components



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## GBU15A THRU GBU15M

### Features

- UL Recognized File # E165989
- Glass Passivated Chip junction
- High Surge Overload Rating
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

### Maximum Ratings

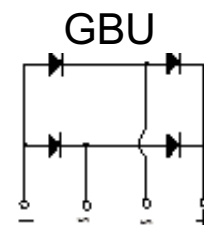
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 2.2°C/W Junction to Case (Heatsink)
- Mounting Torque: 5.0 in-lbs Maximum

| MCC Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------------------------------|---------------------|-----------------------------|
| GBU15A          | 50V                                    | 35V                 | 50V                         |
| GBU15B          | 100V                                   | 70V                 | 100V                        |
| GBU15D          | 200V                                   | 140V                | 200V                        |
| GBU15G          | 400V                                   | 280V                | 400V                        |
| GBU15J          | 600V                                   | 420V                | 600V                        |
| GBU15K          | 800V                                   | 560V                | 800V                        |
| GBU15M          | 1000V                                  | 700V                | 1000V                       |

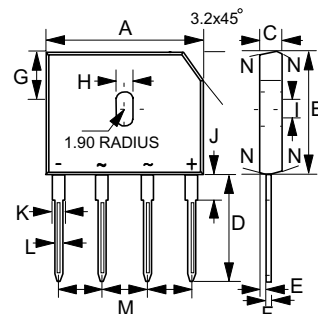
### Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |             |                     |                                                       |
|---------------------------------------------------------|-------------|---------------------|-------------------------------------------------------|
| Maximum Average Forward Current (with heatsink)         | $I_{F(AV)}$ | 15 A                | $T_C = 100^\circ\text{C}$                             |
| Peak Forward Surge Current                              | $I_{FSM}$   | 240A                | 8.3ms, half sine                                      |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.1V                | At 7.5A DC                                            |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 5.0uA<br>500uA      | $T_A = 25^\circ\text{C}$<br>$T_A = 125^\circ\text{C}$ |
| Typical Junction Capacitance                            | $C_J$       | 70pF                | Measured at 1.0MHz, $V_R=4.0V$                        |
| $I^2t$ Rating for Fusing                                | $I^2t$      | 240A <sup>2</sup> S | $t < 8.3\text{ms}$                                    |

### 15 Amp Single Phase Glass Passivated Bridge Rectifiers 50 to 1000 Volts



Case Style

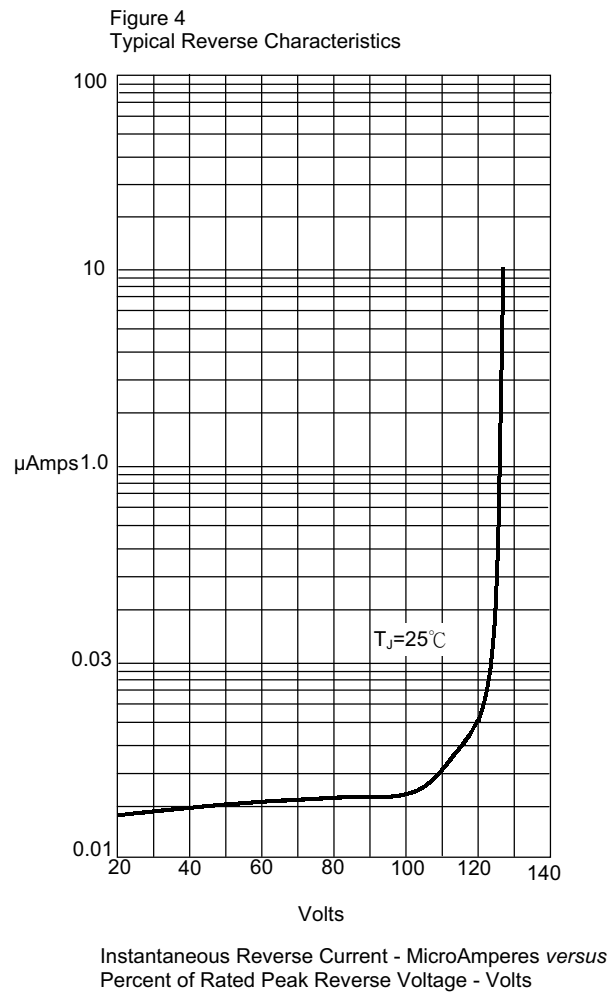
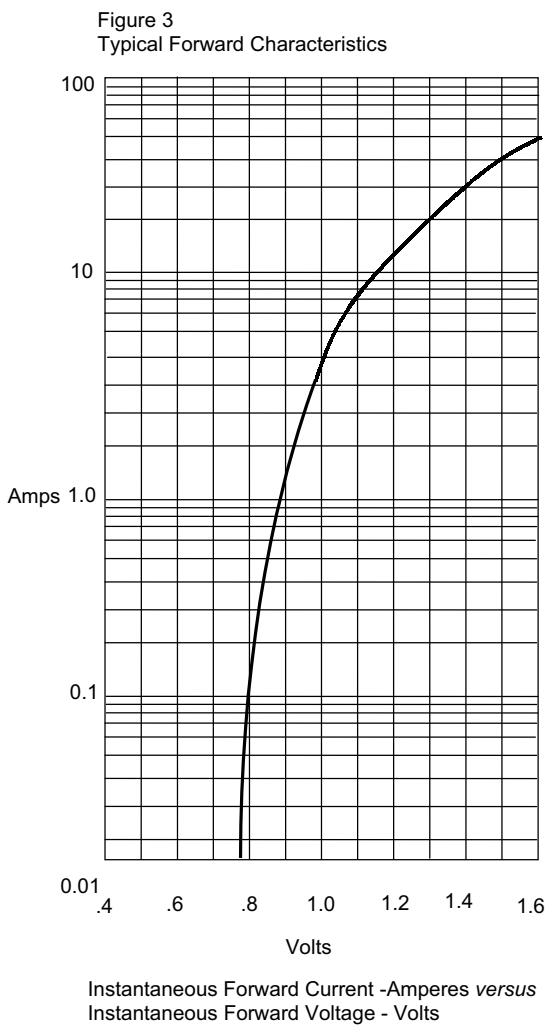
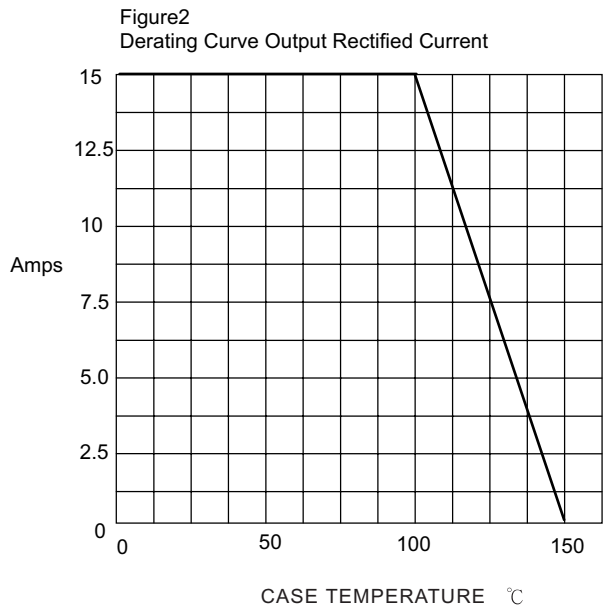
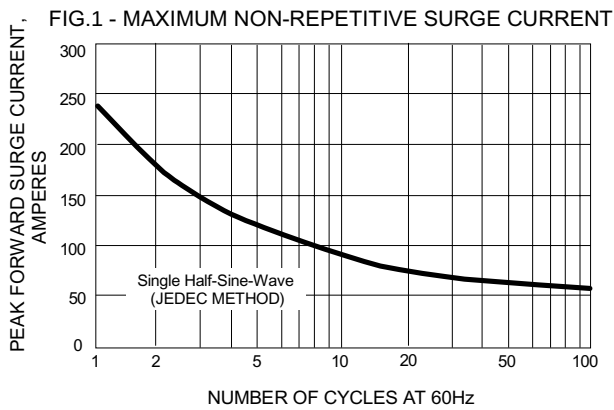


DIMENSIONS

| DIM | INCHES       |      | MM    |       | NOTE |
|-----|--------------|------|-------|-------|------|
|     | MIN          | MAX  | MIN   | MAX   |      |
| A   | .860         | .880 | 21.80 | 22.30 |      |
| B   | .720         | .740 | 18.30 | 18.80 |      |
| C   | .130         | .140 | 3.30  | 3.56  |      |
| D   | .690         | .710 | 17.50 | 18.00 |      |
| E   | .030         | .039 | 0.76  | 1.00  |      |
| F   | .018         | .022 | 0.46  | 0.56  |      |
| G   | .290         | .310 | 7.40  | 7.90  |      |
| H   | .140         | .160 | 3.50  | 4.10  |      |
| I   | .065         | .085 | 1.65  | 2.16  |      |
| J   | .089         | .108 | 2.25  | 2.75  |      |
| K   | .077         | .093 | 1.95  | 2.35  |      |
| L   | .040         | .050 | 1.02  | 1.27  |      |
| M   | .190         | .210 | 4.83  | 5.33  |      |
| N   | 7.0° TYPICAL |      |       |       |      |

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

# GBU15A thru GBU15M



## Ordering Information

| Device           | Packing     |
|------------------|-------------|
| (Part Number)-BP | Bulk;1K/Box |

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

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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