



Micro Commercial Components



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

# GBU4A THRU GBU4M

## Features

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

## Maximum Ratings

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

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| GBU4A           | GBU4A          | 50V                                    | 35V                 | 50V                         |
| GBU4B           | GBU4B          | 100V                                   | 70V                 | 100V                        |
| GBU4D           | GBU4D          | 200V                                   | 140V                | 200V                        |
| GBU4G           | GBU4G          | 400V                                   | 280V                | 400V                        |
| GBU4J           | GBU4J          | 600V                                   | 420V                | 600V                        |
| GBU4K           | GBU4K          | 800V                                   | 560V                | 800V                        |
| GBU4M           | GBU4M          | 1000V                                  | 700V                | 1000V                       |

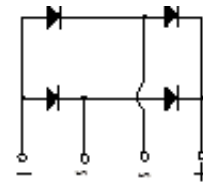
## Electrical Characteristics @ 25°C Unless Otherwise Specified

|   |                                    |  |  |
|---|------------------------------------|--|--|
| Average Forward Current (NOTE 2)                        | $I_{F(AV)}$                        | 4 A  | $T_C = 100^\circ\text{C}$  |
| Peak Forward Surge Current                              | $I_{FSM}$                          | 160A<br>150A<br>320A<br>300A                   | $T_j=25^\circ\text{C}$ , 8.3ms,<br>$T_j=125^\circ\text{C}$ , half sine<br>$T_j=25^\circ\text{C}$ , 1.0ms,<br>$T_j=125^\circ\text{C}$ , half sine |
| Maximum Instantaneous Forward Voltage                   | $V_F$                              | 1.0V   | $I_{FM}=2A$ $T_J = 25^\circ\text{C}$   |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$                              | 5 $\mu\text{A}$<br>500 $\mu\text{A}$           | $T_J = 25^\circ\text{C}$<br>$T_J = 125^\circ\text{C}$  |
| Typical thermal resistance per leg                      | $R_{\theta JA}$<br>$R_{\theta JC}$ | 22°C/W<br>2.2°C/W                              |  |
| $I^2t$ Rating for fusing                                | $I^2t$                             | 106.24A <sup>2</sup> S<br>51.2A <sup>2</sup> S | (t<8.3ms)<br>(t<1.0ms)   |
| Typical Junction Capacitance                            | $C_J$                              | 45pF   | Measured at 1.0MHz, $V_R=4.0V$   |

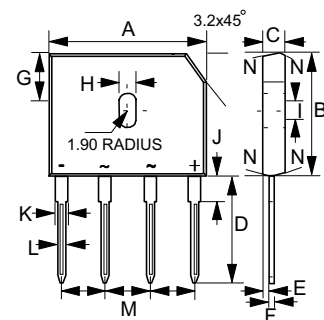
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a  
2. Unit case mounted on 1.6 x 1.6 x 0.06" thick (4.0 x 4.0 x 0.15 cm) aluminum plate

## 4 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts

### GBU



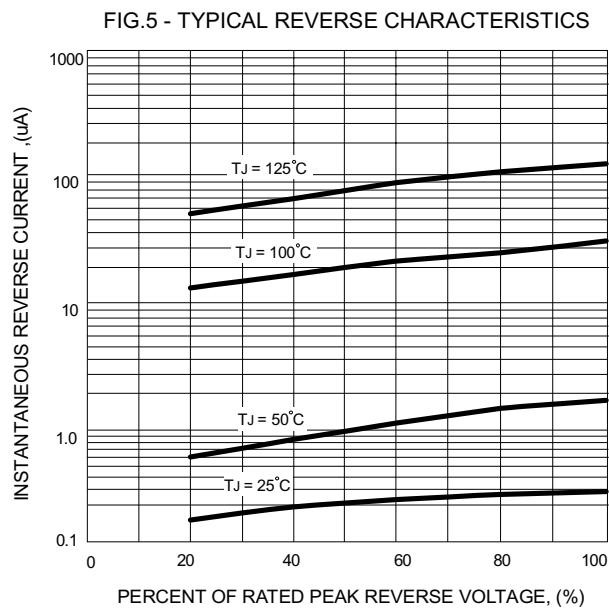
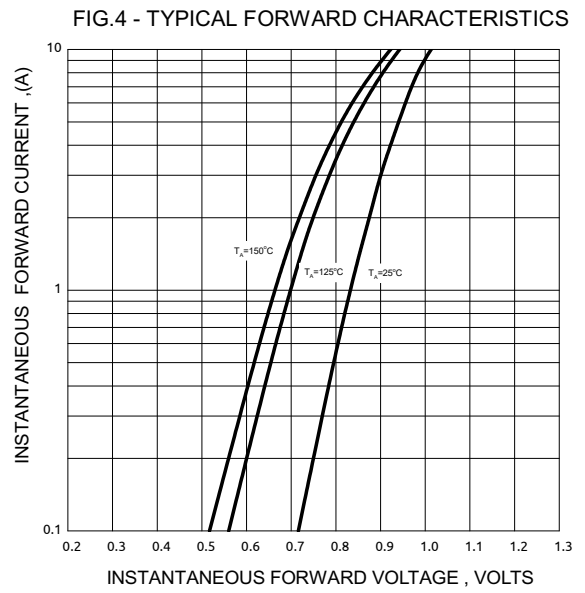
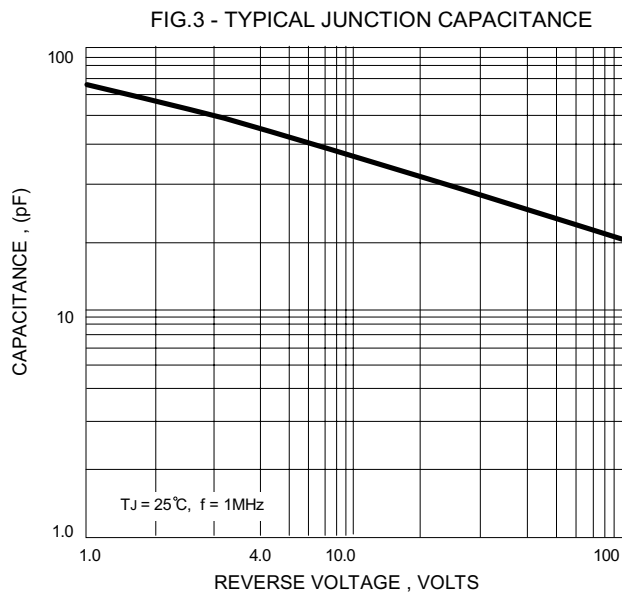
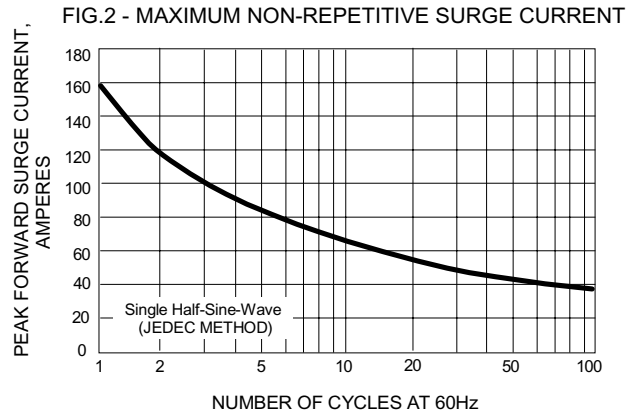
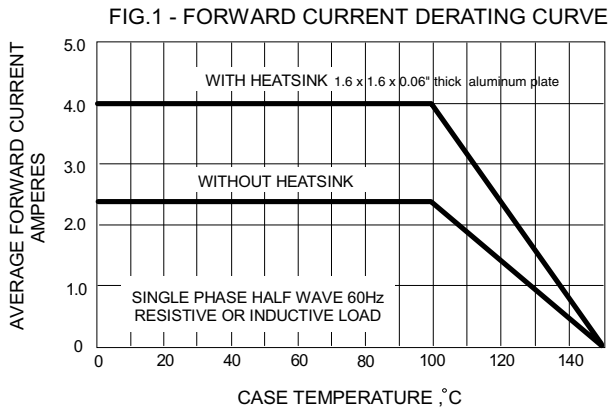
Case Style



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         | .142 | 3.30  | 3.60  |      |
| D   | .690         | .717 | 17.50 | 18.20 |      |
| E   | .030         | .039 | 0.76  | 1.00  |      |
| F   | .018         | .024 | 0.46  | 0.60  |      |
| G   | .290         | .310 | 7.40  | 7.90  |      |
| H   | .140         | .160 | 3.50  | 4.10  |      |
| I   | .065         | .085 | 1.65  | 2.16  |      |
| J   | .060         | .096 | 1.52  | 2.45  |      |
| K   | .077         | .098 | 1.95  | 2.50  |      |
| L   | .040         | .050 | 1.02  | 1.27  |      |
| M   | .190         | .210 | 4.83  | 5.33  |      |
| N   | 7.0° TYPICAL |      |       |       |      |

## Characteristics(Typical)





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## Ordering Information :

| Device         | Packing         |
|----------------|-----------------|
| Part Number-BP | Bulk: 1Kpcs/Box |

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

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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.