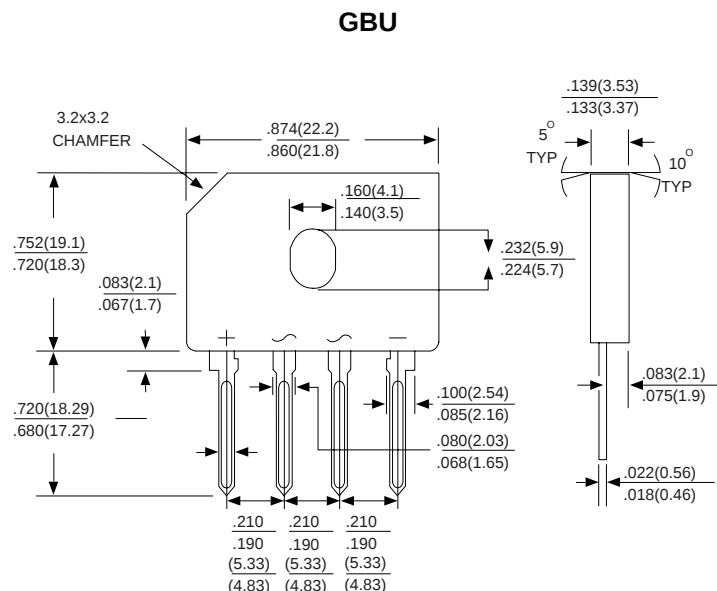


RoHS Compliant Product  
A suffix of "-C" specifies halogen-free.

## FEATURES

- \* Ideal For Printed Circuit Board
- \* Surge Overload Rating -150 Amp Peak
- \* Reliable Low Cost Construction Utilizing Molded Plastic Technique
- \* Plastic Material Has U/L Flammability Classification 94V-0
- \* Mounting Position: Any



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Resistive or inductive load, 60Hz,  
For capacitive load, derate current by 20%.

| TYPE NUMBER                                                                                                     | SYMBOL          | GBU4A        | GBU4B | GBU4D | GBU4G | GBU4J | GBU4K | GBU4M | UNITS                       |
|-----------------------------------------------------------------------------------------------------------------|-----------------|--------------|-------|-------|-------|-------|-------|-------|-----------------------------|
| Maximum Recurrent Peak Reverse Voltage                                                                          | $V_{RRM}$       | 50           | 100   | 200   | 400   | 600   | 800   | 1000  | V                           |
| Maximum RMS Voltage                                                                                             | $V_{RMS}$       | 30           | 70    | 140   | 280   | 420   | 560   | 700   | V                           |
| Maximum DC Blocking Voltage                                                                                     | $V_{DC}$        | 50           | 100   | 200   | 400   | 600   | 800   | 1000  | V                           |
| Maximum Average Forward Rectified Current @ $T_C=100^\circ\text{C}$ (with heatsink Note2)<br>(without heatsink) | $I_{(AV)}$      | 4.0<br>2.4   |       |       |       |       |       |       | A                           |
| Peak Forward Surge Current, 8.3 ms single half Sine-wave superimposed on rated load (JEDEC method)              | $I_{FSM}$       | 150          |       |       |       |       |       |       | A                           |
| Maximum Forward Voltage at 2.0A                                                                                 | $V_F$           | 1.1          |       |       |       |       |       |       | V                           |
| Maximum DC Reverse Current $T_a=25^\circ\text{C}$<br>at Rated DC Blocking Voltage $T_a=125^\circ\text{C}$       | $I_R$           | 10.0<br>500  |       |       |       |       |       |       | $\mu\text{A}$               |
| $I^2t$ Rating for fusing ( $t < 8.3\text{ms}$ )                                                                 | $I^2t$          | 93           |       |       |       |       |       |       | $\text{A}^2\text{S}$        |
| Typical Junction Capacitance per element (Note1)                                                                | $C_J$           | 45           |       |       |       |       |       |       | pF                          |
| Typical Thermal Resistance (Note 2)                                                                             | $R_{\theta JC}$ | 2.2          |       |       |       |       |       |       | $^\circ\text{C} / \text{W}$ |
| Operating Temperature Range                                                                                     | $T_J$           | - 55 ~ + 150 |       |       |       |       |       |       | $^\circ\text{C}$            |
| Storage Temperature Range                                                                                       | $T_{STG}$       | - 55 ~ + 150 |       |       |       |       |       |       | $^\circ\text{C}$            |

### NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

● **RATING AND CHARACTERISTIC CURVES**

FIG.1-FORWARD CURRENT DERATING CURVE

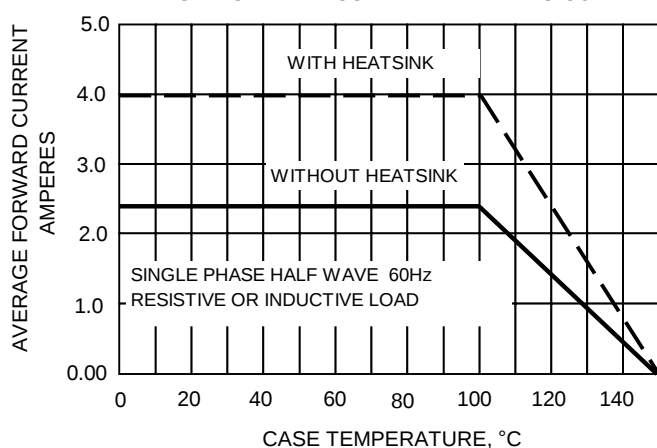


FIG.3-TYPICAL JUNCTION CAPACITANCE

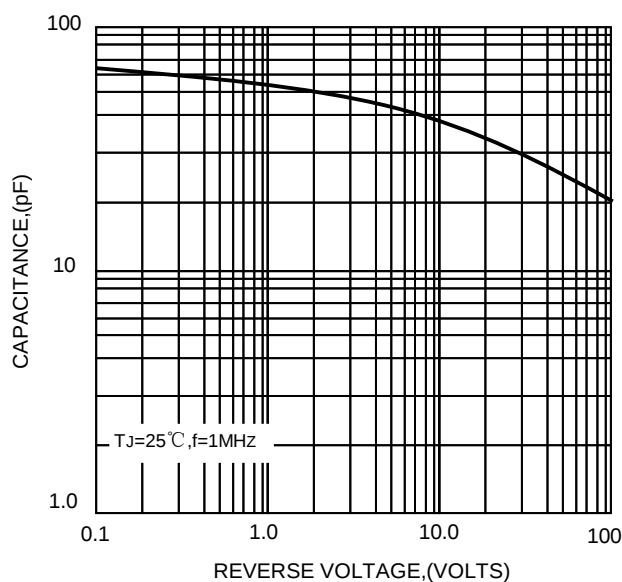


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

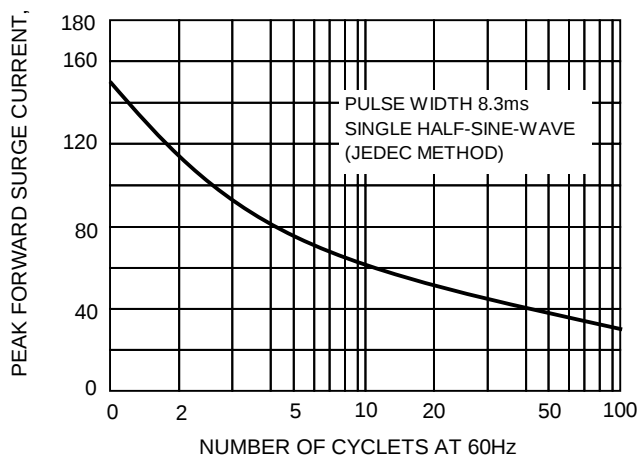


FIG.4-TYPICAL FORWARD CHARACTERISTICS

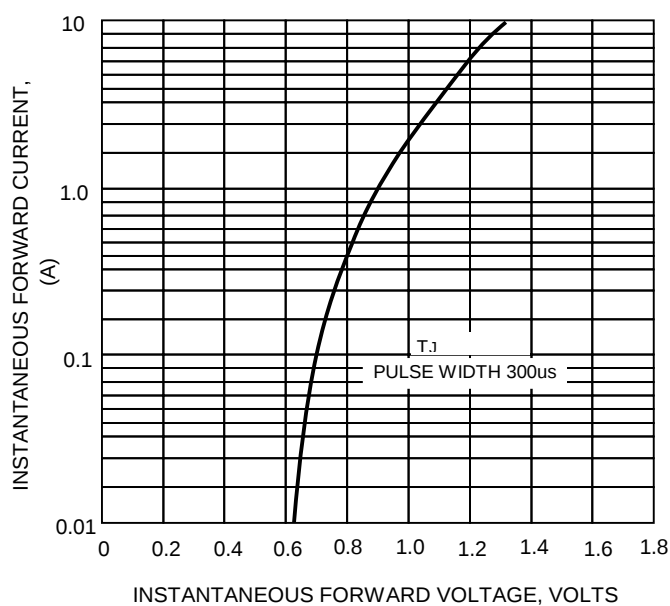


FIG.5-TYPICAL REVERSE CHARACTERISTICS

