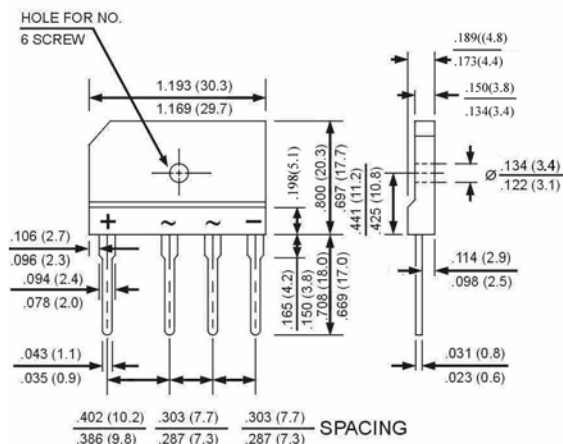


RoHS Compliant Product  
A suffix of "-C" specifies halogen-free.

## FEATURES

- \* Ideal for printed circuit board
- \* Surge overload rating - 60A peak
- \* The plastic material has UL flammability classification 94V-0
- \* Mounting position: Any



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load,

For capacitive load, derate current by 20%.

| TYPE NUMBER                                                                               | SYMBOL     | GBJ2005      | GBJ201 | GBJ202 | GBJ204 | GBJ206 | GBJ208 | GBJ210 | UNITS            |
|-------------------------------------------------------------------------------------------|------------|--------------|--------|--------|--------|--------|--------|--------|------------------|
| Maximum Recurrent Peak Reverse Voltage                                                    | $V_{RRM}$  | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | V                |
| Maximum RMS Voltage                                                                       | $V_{RMS}$  | 35           | 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 Output Current @ $T_A=50^\circ\text{C}$                 | $I_{(AV)}$ | 2.0          |        |        |        |        |        |        | A                |
| Peak Forward Surge Current 8.3 ms single half sine-wave super imposed on rated load       | $I_{FSM}$  | 60           |        |        |        |        |        |        | A                |
| Maximum Forward Voltage at 1.0A                                                           | $V_F$      | 1.1          |        |        |        |        |        |        | V                |
| Maximum Reverse Current at Rated DC Blocking Voltage                                      | $I_R$      | 10           |        |        |        |        |        |        | $\mu\text{A}$    |
| Maximum Reverse Current at Rate DC Blocking Voltage per element @ $T_A=100^\circ\text{C}$ | $I_R$      | 1.0          |        |        |        |        |        |        | mA               |
| Operating Temperature Range                                                               | $T_J$      | - 55 ~ + 150 |        |        |        |        |        |        | $^\circ\text{C}$ |
| Storage Temperature Range                                                                 | $T_{STG}$  | - 55 ~ + 150 |        |        |        |        |        |        | $^\circ\text{C}$ |

### Characteristics Curve

FIG. 1 - DERATING CURVE  
OUTPUT RECTIFIED CURRENT

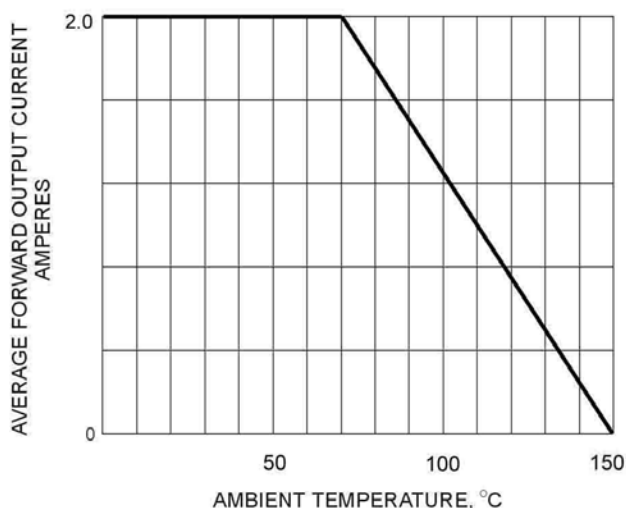


FIG. 2 - TYPICAL FORWARD  
CHARACTERISTICS

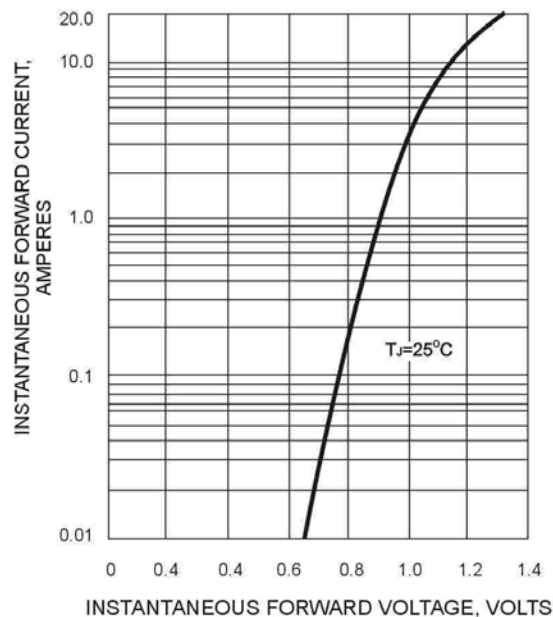


FIG. 3 - TYPICAL REVERSE  
CHARACTERISTICS

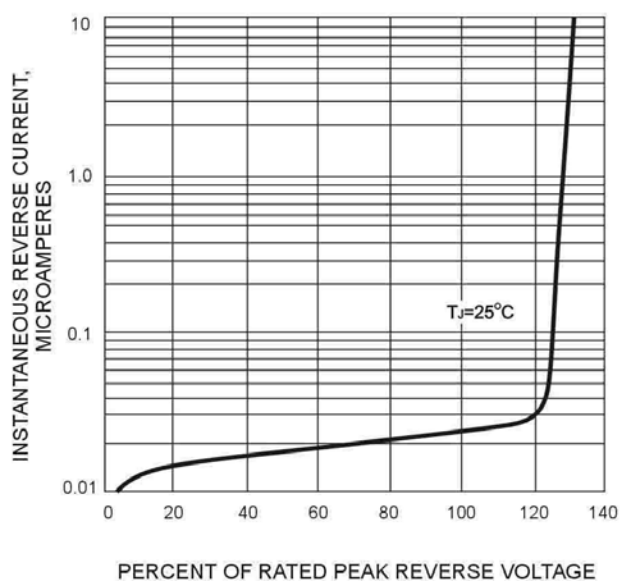


FIG. 4 - MAXIMUM FORWARD SURGE CURRENT

