

## Glass Passivated Bridge Rectifier

**Voltage**

**1000 V**

**Current**

**10A**

### Features



- Ideal for printed circuit boards
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

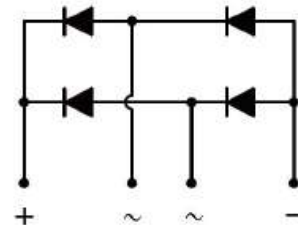
### Mechanical Data

- Case : GBJ-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 6.6972 grams

### Application

- Computing Power,
- Server Power/IND/EV
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board
- TV Power

## GBJ-2



| Key Parameters |              |
|----------------|--------------|
| Parameter      | Value        |
| $V_{RRM}$      | <b>1000V</b> |
| $I_F(AV)$      | <b>10A</b>   |
| $I_{FSM}$      | <b>220A</b>  |
| $I_R$          | <b>5uA</b>   |
| <b>Package</b> | <b>GBJ-2</b> |

**Maximum Ratings and Thermal Characteristics** ( $T_A = 25\text{ }^\circ\text{C}$  unless otherwise noted)

| PARAMETER   |                                     | SYMBOL         | LIMIT   | UNITS              |
|---|-------------------------------------|----------------|---------|--------------------|
| Maximum Repetitive Peak Reverse Voltage   |                                     | $V_{RRM}$      | 1000    | V                  |
| Maximum RMS Voltage   |                                     | $V_{RMS}$      | 700     | V                  |
| Maximum DC Blocking Voltage   |                                     | $V_{DC}$       | 1000    | V                  |
| Maximum Average Forward Current   | With heatsink                       | $I_{F(AV)}$    | 10      | A                  |
|   | Without heatsink                    |                | 3.5     |                    |
| Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load    | @ $T_A = 25\text{ }^\circ\text{C}$  | $I_{FSM}$      | 220     | A                  |
|   | @ $T_A = 125\text{ }^\circ\text{C}$ |                | 176     |                    |
| Peak Forward Surge Current : 1.0 ms Single Half Square -Wave Superimposed On Rated Load | @ $T_A = 25\text{ }^\circ\text{C}$  | $I_{FSM}$      | 410     | A                  |
|   | @ $T_A = 125\text{ }^\circ\text{C}$ |                | 330     |                    |
| $I^2 t$ rating for fusing ( $t = 8.3\text{ms}$ )  |                                     | $I^2 t$        | 200.8   | $A^2S$             |
| Typical Junction Capacitance<br>Measured at 1 MHz And Applied $V_R = 4\text{ V}$        |                                     | $C_J$          | 70      | pF                 |
| Typical Thermal Resistance (Note 1)   | $R_{\theta JA}$                     |                | 8       | $^\circ\text{C/W}$ |
|   | $R_{\theta JL}$                     |                | 2       |                    |
|   | $R_{\theta JC}$                     |                | 3       |                    |
| Operating junction and storage temperature range  |                                     | $T_J, T_{STG}$ | -55~150 | $^\circ\text{C}$   |
| Mounting torque @ Recommend torque:5Kg.cm   |                                     | Tor            | 8       | Kg.cm              |

**Electrical Characteristics** ( $T_A = 25\text{ }^\circ\text{C}$  unless otherwise noted)

| PARAMETER       | SYMBOL | TEST CONDITION   | MIN. | TYP. | MAX. | UNITS |
|-----------------|--------|--|------|------|------|-------|
| Forward Voltage | $V_F$  | $I_F = 5\text{ A}, T_J = 25\text{ }^\circ\text{C}$     | -    | -    | 1.05 | V     |
| Reverse Current | $I_R$  | $V_R = 1000\text{ V}, T_J = 25\text{ }^\circ\text{C}$  | -    | -    | 5    | uA    |
|                 |        | $V_R = 1000\text{ V}, T_J = 125\text{ }^\circ\text{C}$ | -    | -    | 100  |       |

NOTES :

1. Device mounted on 10 cm \* 9.4 cm \* 2.6 cm Fin type heat sink.

TYPICAL CHARACTERISTIC CURVES

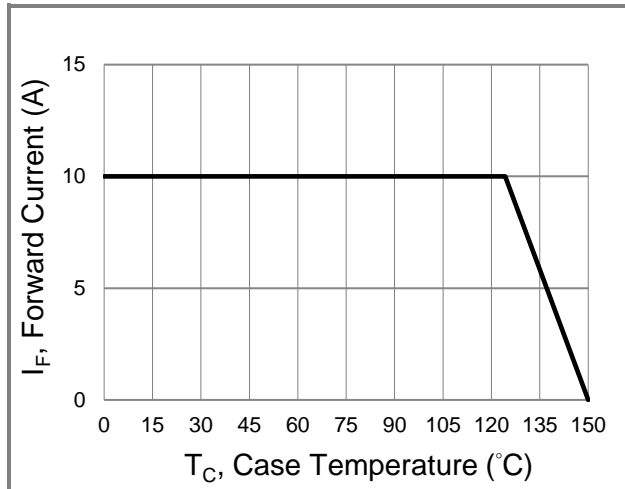


Fig.1 Forward Current Derating Curve

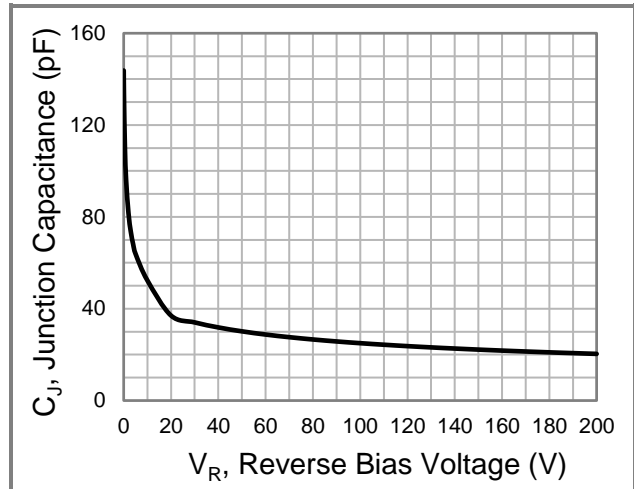


Fig.2 Typical Junction Capacitance

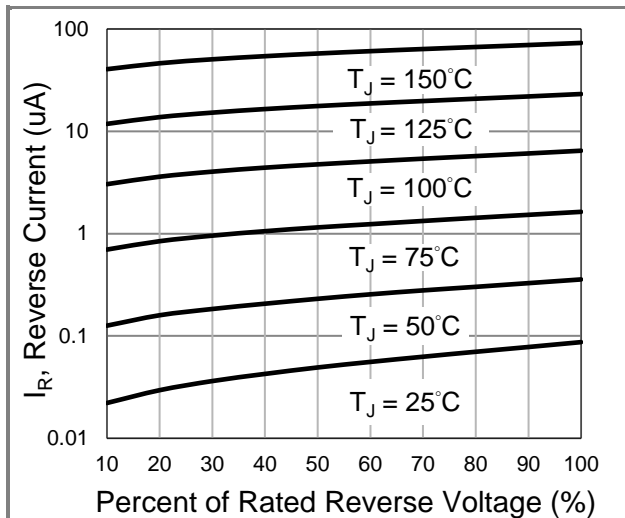


Fig.3 Typical Reverse Characteristics

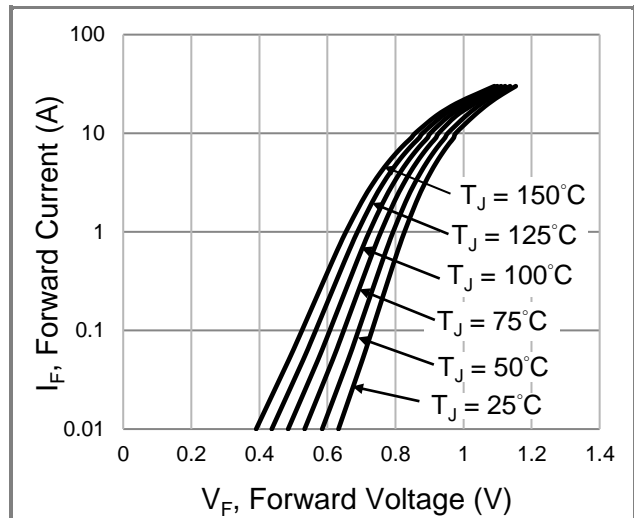
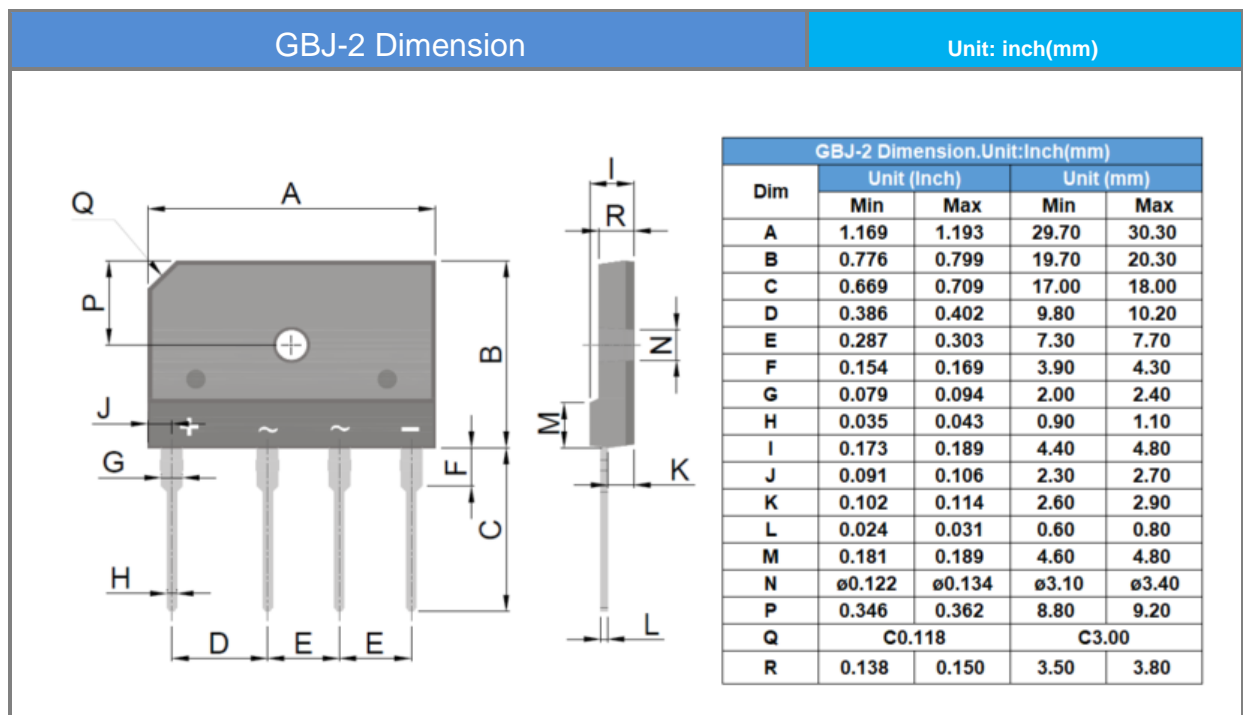


Fig.4 Typical Forward Characteristics

**Part No. Marking Code Version**

| Approved Part No. | Package Type | Packing Type  | Marking |
|-------------------|--------------|---------------|---------|
| GBJ1010           | GBJ-2        | 15 pcs / tube | GBJ1010 |

**Packaging Information**



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