

## Glass Passivated Bridge Rectifier

|         |        |         |     |
|---------|--------|---------|-----|
| Voltage | 1000 V | Current | 15A |
|---------|--------|---------|-----|

### Features



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

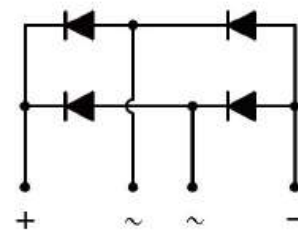
### Mechanical Data

- 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 |
| $V_{RRM}$      | 1000V |
| $I_F(AV)$      | 15A   |
| $I_{FSM}$      | 240A  |
| $I_R$          | 5uA   |
| Package        | GBJ-2 |

**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                       | $I_{F(AV)}$     | 15      | A                    |
|  | Without heatsink                    |                 | 3.8     |                      |
| Peak Forward Surge Current : 8.3 ms<br>Single Half Sine-Wave Superimposed<br>On Rated Load   | @ $T_A = 25\text{ }^\circ\text{C}$  | $I_{FSM}$       | 240     | A                    |
|  | @ $T_A = 125\text{ }^\circ\text{C}$ |                 | 192     |                      |
| Peak Forward Surge Current : 1.0 ms<br>Single Half Square-Wave Superimposed<br>On Rated Load | @ $T_A = 25\text{ }^\circ\text{C}$  | $I_{FSM}$       | 450     | A                    |
|  | @ $T_A = 125\text{ }^\circ\text{C}$ |                 | 360     |                      |
| $I^2 t$ rating for fusing ( $t = 8.3\text{ms}$ )   |                                     | $I^2 t$         | 239     | $\text{A}^2\text{S}$ |
| Typical Junction Capacitance<br>Measured at 1 MHz And Applied $V_R = 4\text{ V}$             |                                     | $C_J$           | 75      | pF                   |
| Typical Thermal Resistance (Note 1)  |                                     | $R_{\theta JA}$ | 8       | $^\circ\text{C/W}$   |
|  |                                     | $R_{\theta JL}$ | 2       |                      |
|  |                                     | $R_{\theta JC}$ | 2       |                      |
| 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 | $V_F$  | $I_F = 7.5\text{ A}, T_J = 25\text{ }^\circ\text{C}$   | -    | -    | 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 :

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

TYPICAL CHARACTERISTIC CURVES

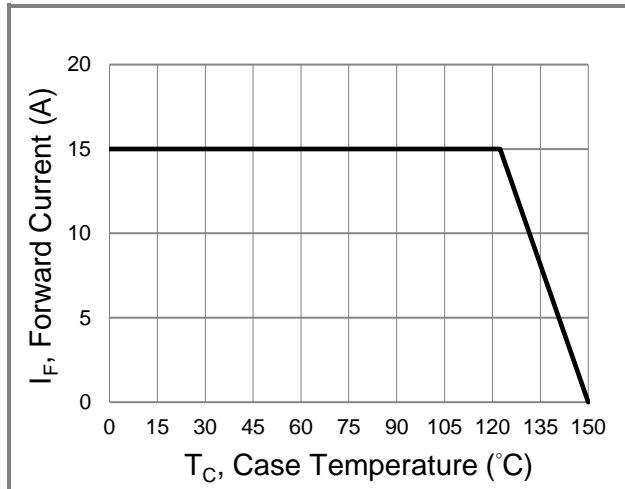


Fig.1 Forward Current Derating Curve

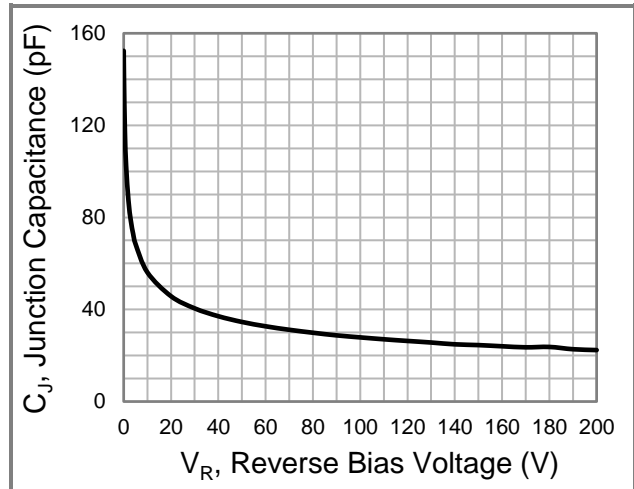


Fig.2 Typical Junction Capacitance

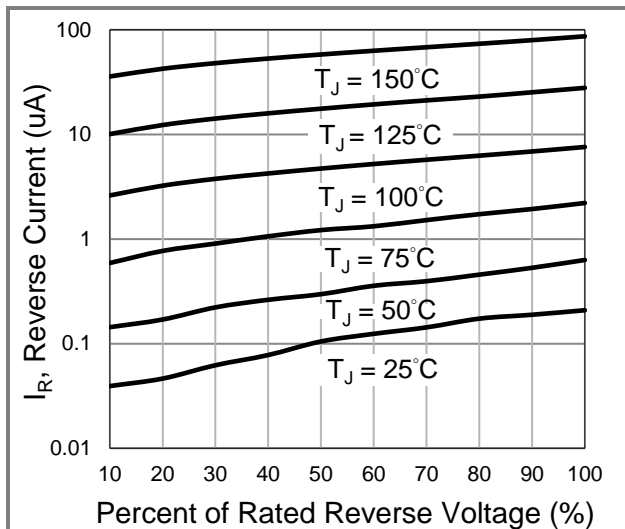


Fig.3 Typical Reverse Characteristics

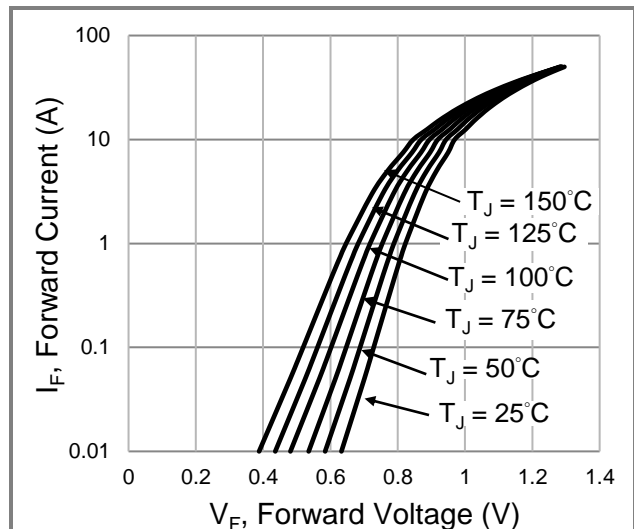
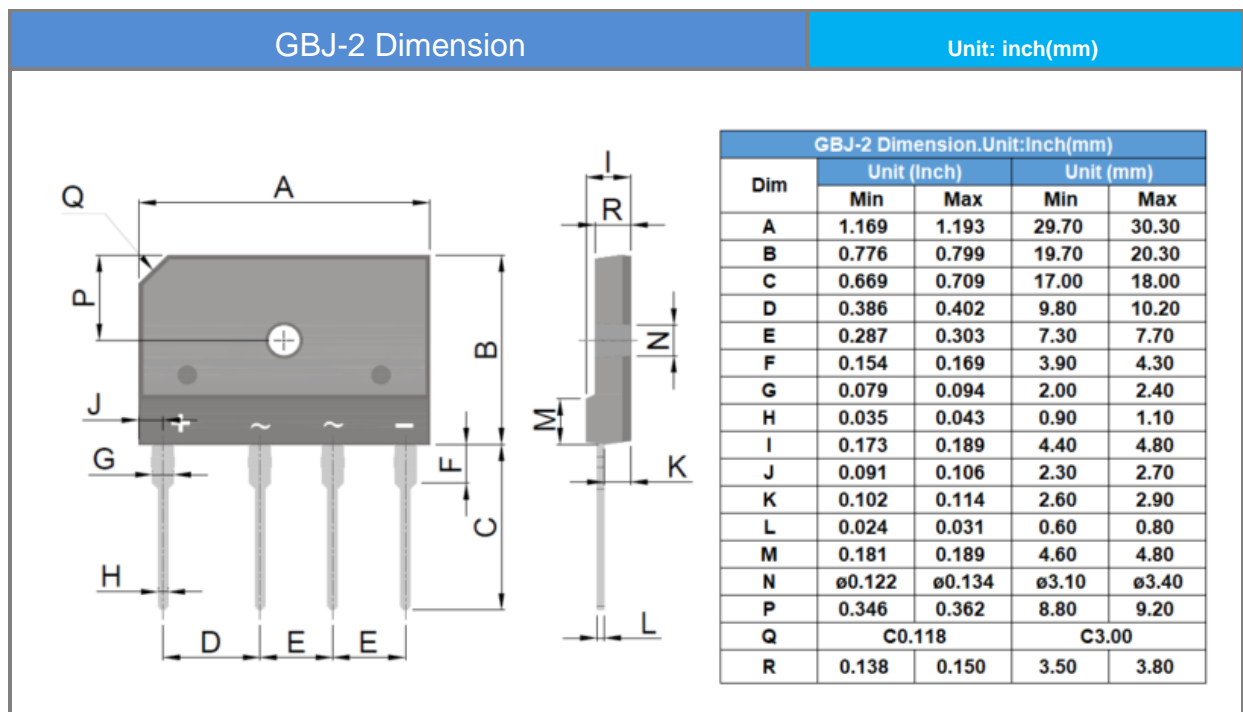


Fig.4 Typical Forward Characteristics

**Part No. Marking Code Version**

| Approved Part No. | Package Type | Packing Type  | Marking |
|-------------------|--------------|---------------|---------|
| GBJ1510           | GBJ-2        | 15 pcs / tube | GBJ1510 |

**Packaging Information**



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