

# Glass Passivated Bridge Rectifier

**multicomp**PRO



## Features

- Rating 600V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has U/L flammability classification 94V-0

## Maximum Ratings And Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

| Characteristic                                                                                                  | Symbol            | Values      | Unit             |
|-----------------------------------------------------------------------------------------------------------------|-------------------|-------------|------------------|
| Maximum Recurrent Peak Reverse Voltage                                                                          | V <sub>RRM</sub>  | 600         | V                |
| Maximum RMS Voltage                                                                                             | V <sub>RMS</sub>  | 420         |                  |
| Maximum DC Blocking Voltage                                                                                     | V <sub>DC</sub>   | 600         |                  |
| Maximum Average Forward (with heatsink Note 2)<br>Rectified Current @ T <sub>c</sub> = 100°C (without heatsink) | I <sub>(AV)</sub> | 6<br>2.8    | A                |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load (JEDEC Method)         | I <sub>FSM</sub>  | 170         |                  |
| Maximum Forward Voltage at 3A DC                                                                                | V <sub>F</sub>    | 0.92        | V                |
| Maximum DC Reverse Current @ T <sub>J</sub> = 25°C<br>at Rated DC Blocking Voltage @ T <sub>J</sub> = 125°C     | I <sub>R</sub>    | 10<br>127   | μA               |
| I <sup>2</sup> t Rating for Fusing (t<8.3ms)                                                                    | I <sup>2</sup> t  | 120         | A <sup>2</sup> s |
| Typical Junction Capacitance Per Element (Note1)                                                                | C <sub>J</sub>    | 55          | pF               |
| Typical Thermal Resistance                                                                                      | R <sub>θJC</sub>  | 1.8         | °C/W             |
| Operating Temperature Range                                                                                     | T <sub>J</sub>    | -55 to +150 | °C               |
| Storage Temperature Range                                                                                       | T <sub>STG</sub>  |             |                  |

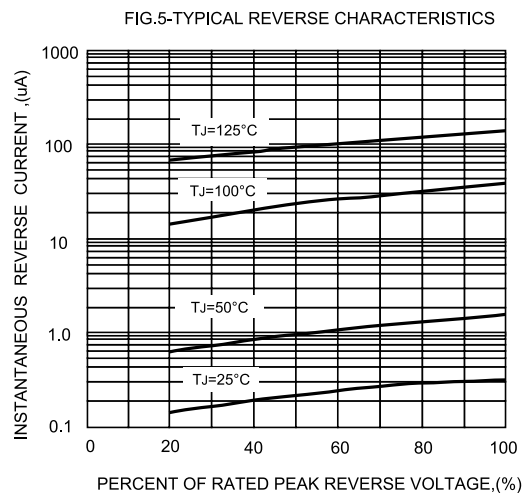
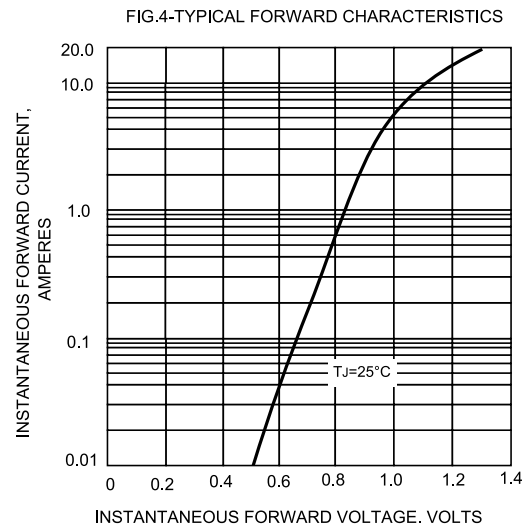
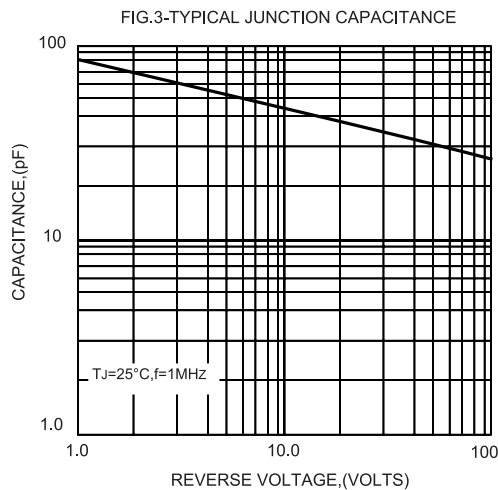
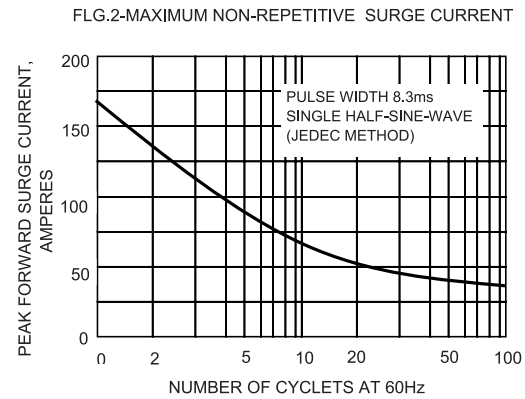
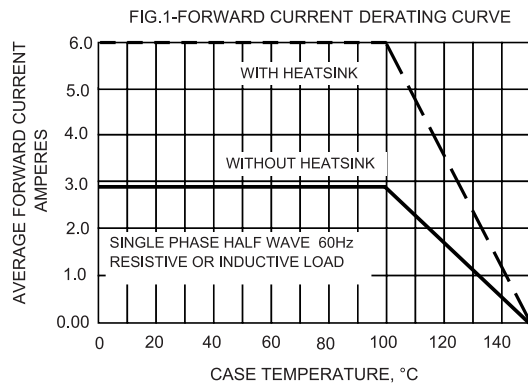
### Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC
2. Device mounted on 75mm × 75mm × 1.6mm Cu plate heatsink.
3. The typical data above is for reference only

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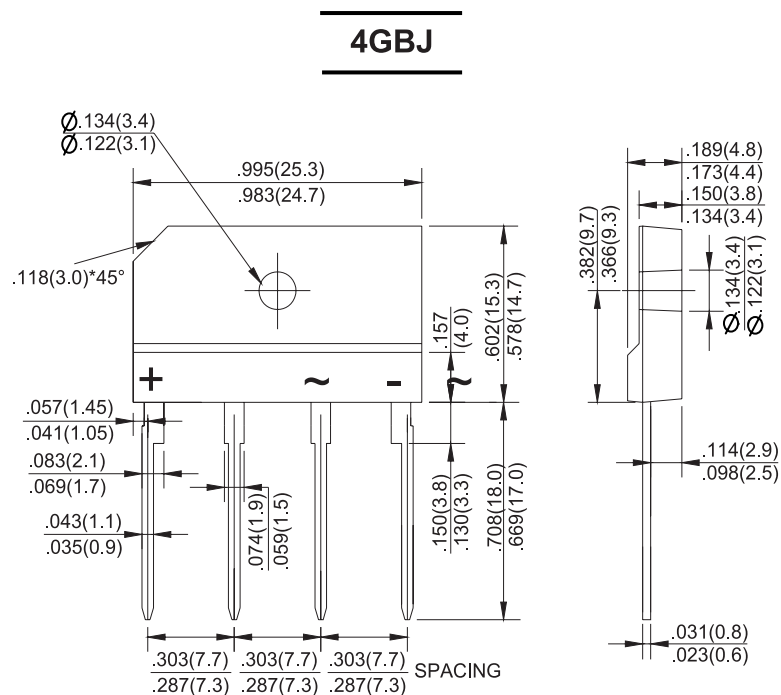
## Rating and Characteristic Curves



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## Dimension:



Dimensions : Inches (Millimetres)

## Part Number Table

| Description                       | Part Number |
|-----------------------------------|-------------|
| Glass Passivated Bridge Rectifier | 4GBJ606L    |

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