

# Low VF

## Glass Passivated Bridge Rectifier

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### 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 UL 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                                                                             | $V_{RRM}$  | 600         | V                    |
| Maximum RMS Voltage                                                                                                | $V_{RMS}$  | 420         |                      |
| Maximum DC Blocking Voltage                                                                                        | $V_{DC}$   | 600         |                      |
| Maximum Average Forward (with heatsink Note 2)<br>Rectified Current @ $T_c = 100^\circ\text{C}$ (without heatsink) | $I_{(AV)}$ | 6<br>2.8    | A                    |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load (JEDEC Method)            | $I_{FSM}$  | 175         |                      |
| Maximum Forward Voltage at 3A DC                                                                                   | $V_F$      | 0.95        | V                    |
| Maximum DC Reverse Current @ $T_J = 25^\circ\text{C}$<br>at Rated DC Blocking Voltage @ $T_J = 125^\circ\text{C}$  | $I_R$      | 10<br>500   | $\mu\text{A}$        |
| $I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )                                                                    | $I^2t$     | 120         | $\text{A}^2\text{s}$ |
| Typical Junction Capacitance Per Element (Note 1)                                                                  | $C_J$      | 55          | pF                   |
| Operating Temperature Range                                                                                        | $T_J$      | -55 to +150 | $^\circ\text{C}$     |
| Storage Temperature Range                                                                                          | $T_{STG}$  |             |                      |

#### 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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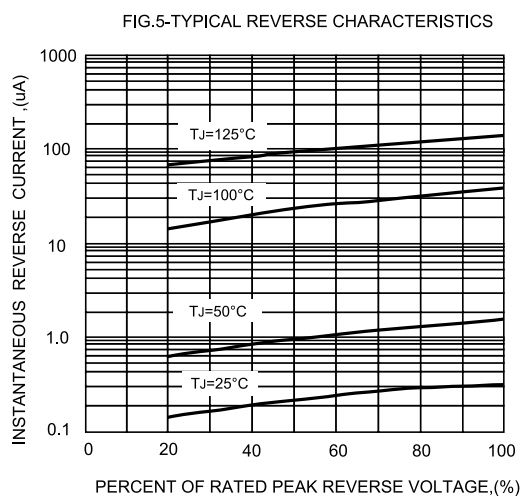
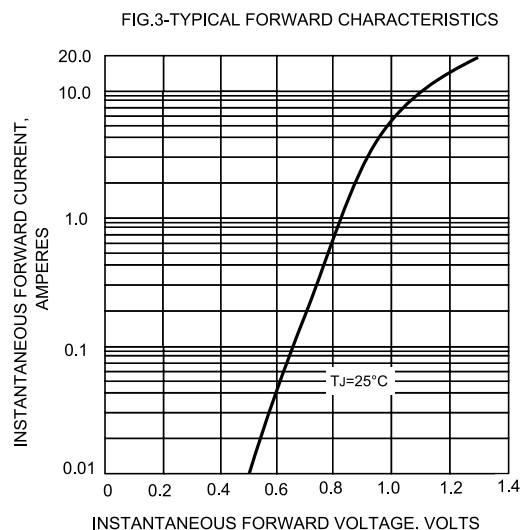
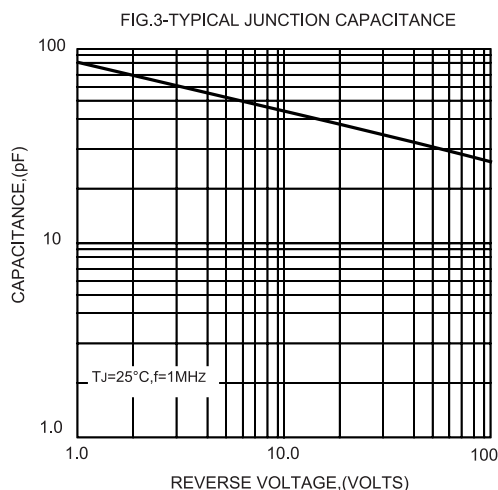
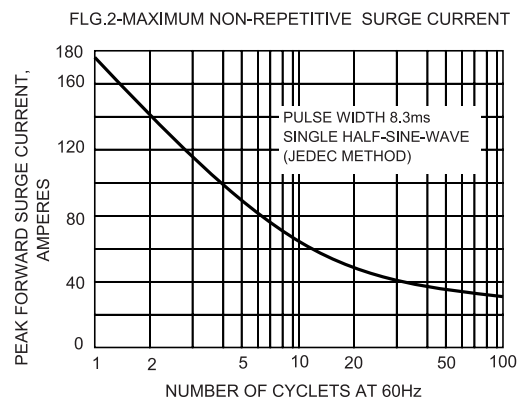
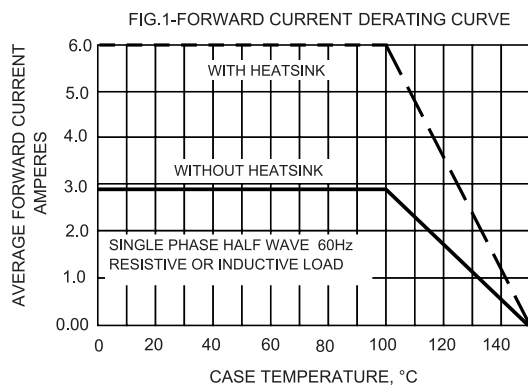
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### Rating and Characteristic Curves

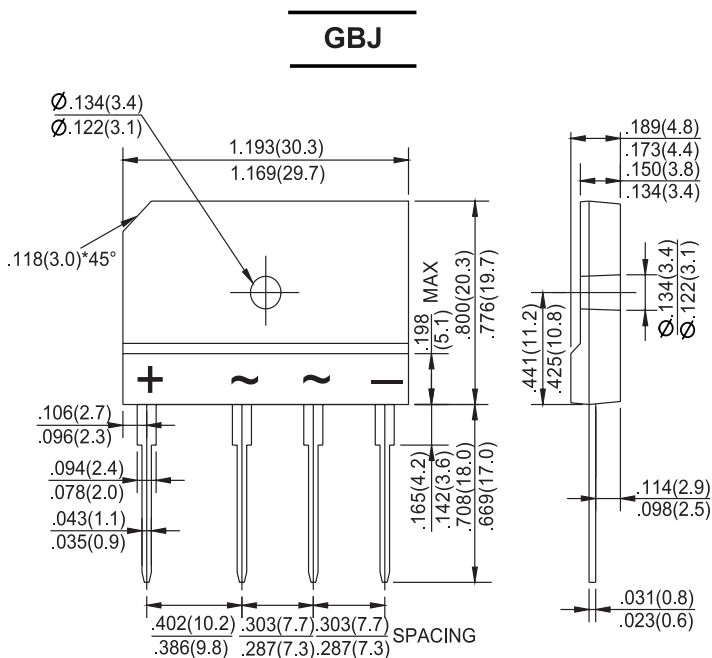


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### Dimension:



Dimensions : Inches (Millimetres)

### Part Number Table

| Description                              | Part Number |
|------------------------------------------|-------------|
| Low VF Glass Passivated Bridge Rectifier | GBJ606F     |

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