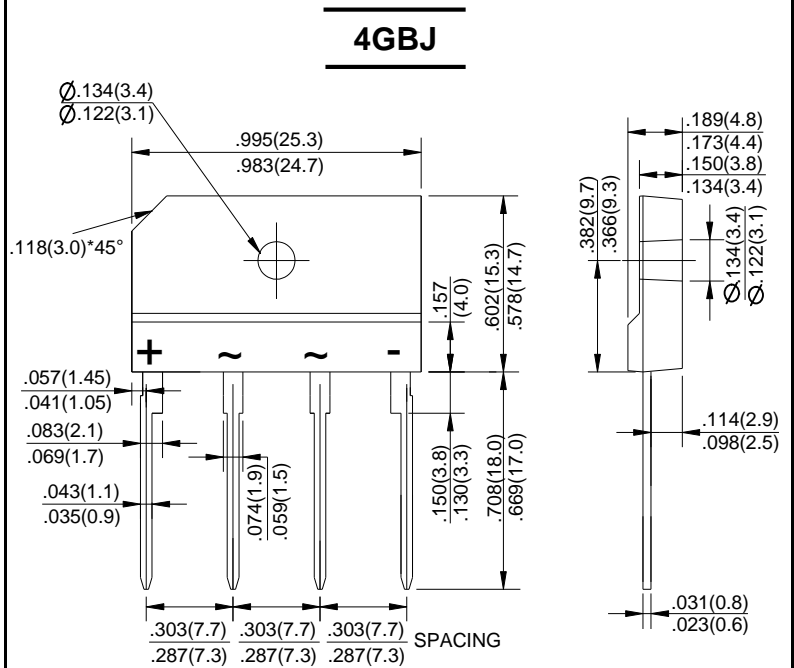


**GLASS PASSIVATED  
BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **600**Volts  
FORWARD CURRENT - **10** Amperes

**FEATURES**

- Rating to 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



Dimensions in inches and (millimeters)

**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%

| CHARACTERISTICS                                                                                             | SYMBOL            | 4GBJ1006L   | UNIT             |
|-------------------------------------------------------------------------------------------------------------|-------------------|-------------|------------------|
| Maximum Recurrent Peak Reverse Voltage                                                                      | V <sub>RRM</sub>  | 600         | V                |
| Maximum RMS Voltage                                                                                         | V <sub>RMS</sub>  | 420         | V                |
| Maximum DC Blocking Voltage                                                                                 | V <sub>DC</sub>   | 600         | V                |
| Maximum Average Forward Rectified Current (with heatsink Note 2) @ T <sub>C</sub> =110°C (without heatsink) | I <sub>(AV)</sub> | 10.0<br>3.0 | A                |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)           | I <sub>FSM</sub>  | 210         | A                |
| Maximum Forward Voltage at 5.0A DC                                                                          | V <sub>F</sub>    | 0.92        | V                |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @ T <sub>J</sub> =25°C @ T <sub>J</sub> =125°C      | I <sub>R</sub>    | 10.0<br>127 | μA               |
| I <sup>2</sup> t Rating for Fusing (t<8.3ms)                                                                | I <sup>2</sup> t  | 183         | A <sup>2</sup> s |
| Typical Junction Capacitance Per Element (Note1)                                                            | C <sub>J</sub>    | 55          | pF               |
| Typical Thermal Resistance                                                                                  | R <sub>θJC</sub>  | 1.4         | °C/W             |
| Operating Temperature Range                                                                                 | T <sub>J</sub>    | -55 to +150 | °C               |
| Storage Temperature Range                                                                                   | T <sub>STG</sub>  | -55 to +150 | °C               |

- NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2. Device mounted on 150mm\*150mm\*1.6mm Cu plate heatsink.  
3. The typical data above is for reference only (典型值仅供参考).

FIG.1-FORWARD CURRENT DERATING CURVE

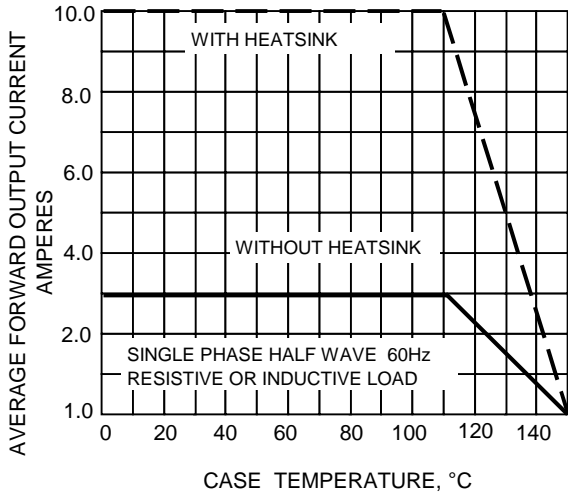


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

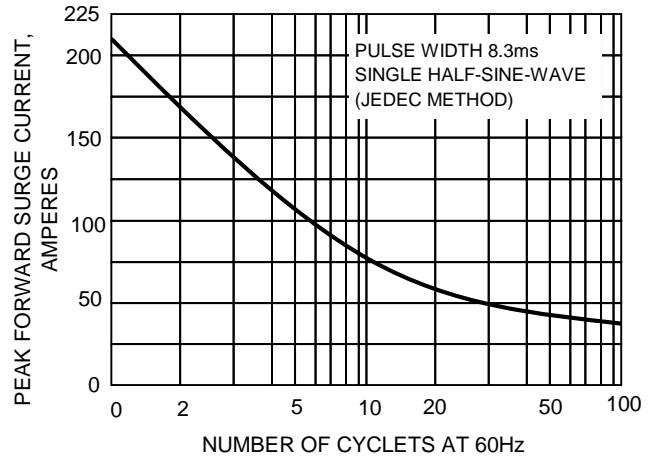


FIG.3-TYPICAL JUNCTION CAPACITANCE

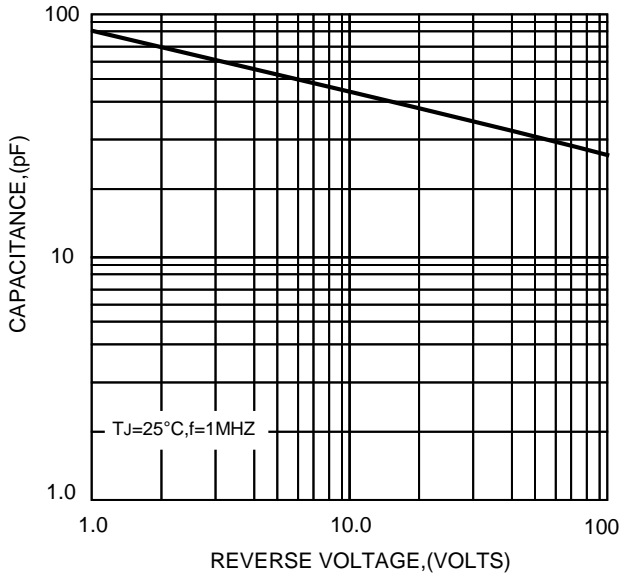


FIG.4-TYPICAL FORWARD CHARACTERISTICS

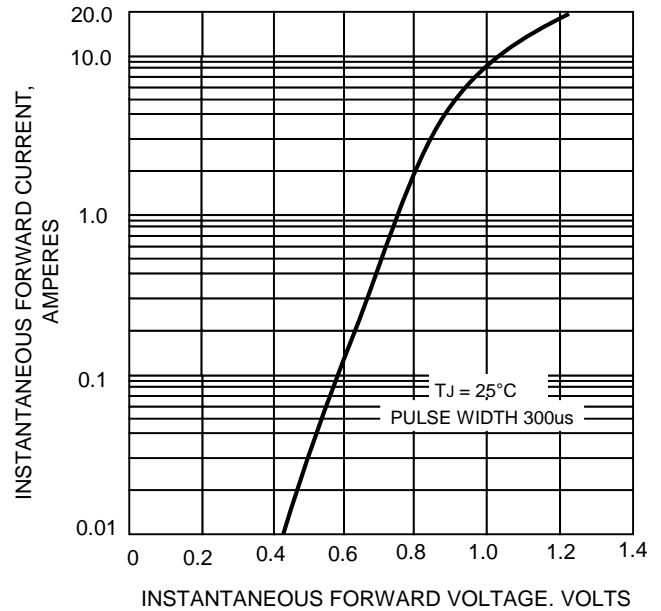
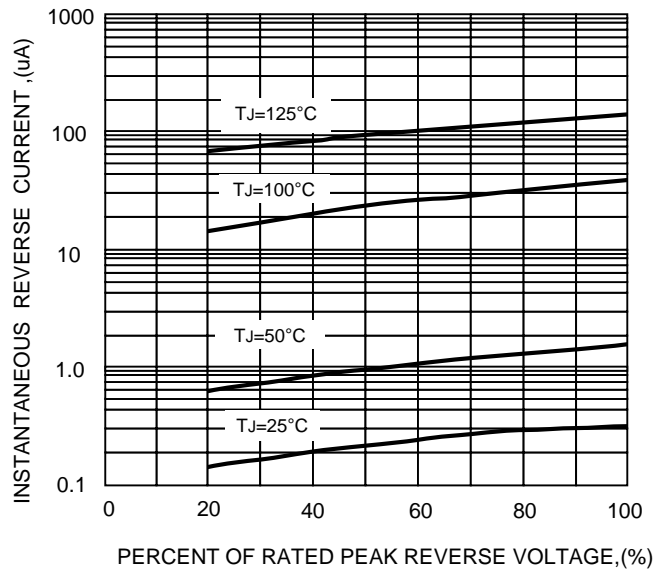


FIG.5-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!