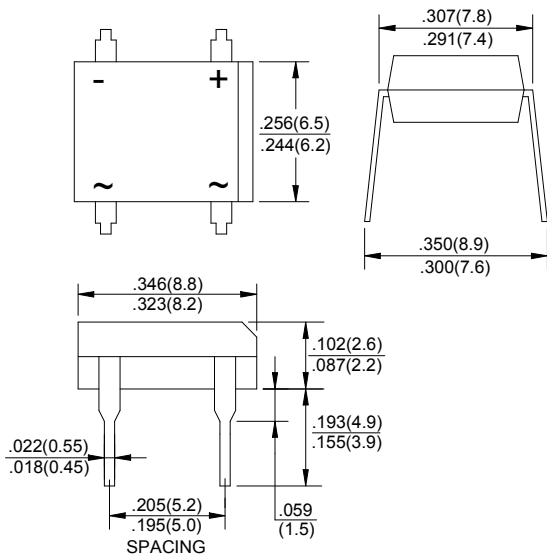


**Glass Passivated Bridge Rectifiers**
**REVERSE VOLTAGE - 50 to 1000Volts**
**FORWARD CURRENT - 1.0Amperes**
**FEATURES**

- Rating to 1000V 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
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0

**MECHANICAL DATA**

- Polarity: As marked on Body
- Weight: 0.02 ounces, 0.38 grams
- Mounting position: Any



Dimensions in inches and (millimeters)

**Package:DB**
**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            | ARDDDB<br>101GX0 | ARDDDB<br>102GX0 | ARDDDB<br>103GX0 | ARDDDB<br>104GX0 | ARDDDB<br>105GX0 | ARDDDB<br>106GX0 | ARDDDB<br>107GX0 | UNIT             |
|---------------------------------------------------------------------------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Maximum Recurrent Peak Reverse Voltage                                                                  | V <sub>RRM</sub>  | 50               | 100              | 200              | 400              | 600              | 800              | 1000             | V                |
| Maximum RMS Voltage                                                                                     | V <sub>RMS</sub>  | 35               | 70               | 140              | 280              | 420              | 560              | 700              | V                |
| Maximum DC Blocking Voltage                                                                             | V <sub>DC</sub>   | 50               | 100              | 200              | 400              | 600              | 800              | 1000             | V                |
| Maximum Average Forward Rectified Current<br>@T <sub>A</sub> =40℃                                       | I <sub>(AV)</sub> | 1.0              |                  |                  |                  |                  |                  |                  | A                |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load (JEDEC Method) | I <sub>FSM</sub>  | 30               |                  |                  |                  |                  |                  |                  | A                |
| Maximum Forward Voltage at 1.0A DC                                                                      | V <sub>F</sub>    | 1.1              |                  |                  |                  |                  |                  |                  | V                |
| Maximum DC Reverse Current<br>@T <sub>J</sub> =25℃                                                      | I <sub>R</sub>    | 10               |                  |                  |                  |                  |                  |                  | uA               |
| at Rated DC Blocking Voltage<br>@T <sub>J</sub> =125℃                                                   |                   | 500              |                  |                  |                  |                  |                  |                  |                  |
| I <sup>2</sup> t Rating for Fusing(t<8.3ms)                                                             | I <sup>2</sup> t  | 10.4             |                  |                  |                  |                  |                  |                  | A <sup>2</sup> s |
| Typical Junction Capacitance Per Element(Note1)                                                         | C <sub>J</sub>    | 25               |                  |                  |                  |                  |                  |                  | pF               |
| Typical Thermal Resistance (Note2)                                                                      | R <sub>θJC</sub>  | 40               |                  |                  |                  |                  |                  |                  | ℃/W              |
| Operating Temperature Range                                                                             | T <sub>J</sub>    | -55 to +150      |                  |                  |                  |                  |                  |                  | ℃                |
| Storage Temperature Range                                                                               | T <sub>STG</sub>  | -55 to +150      |                  |                  |                  |                  |                  |                  | ℃                |

Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC

2.Thermal resistance from junction to ambient mounted on P.C.B

with 0.5\*0.5"(13\*13mm)copper pads.

Fig. 1 - Forward Current Derating Curve

图1 正向电流降额曲线

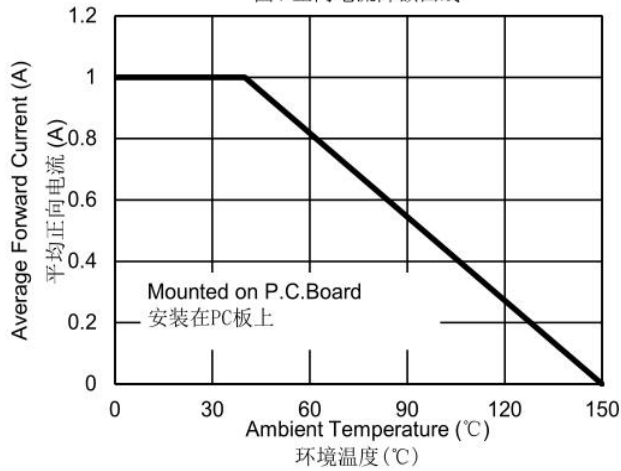


Fig. 3 - Typical Reverse Characteristics

图3 典型的反向特性

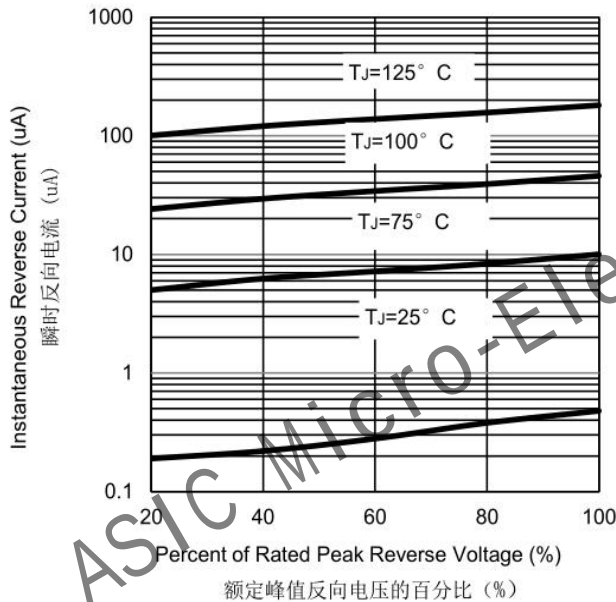


Fig. 2 - Maximum Non-Repetitive Surge Current

图2 最大不重复正向浪涌曲线

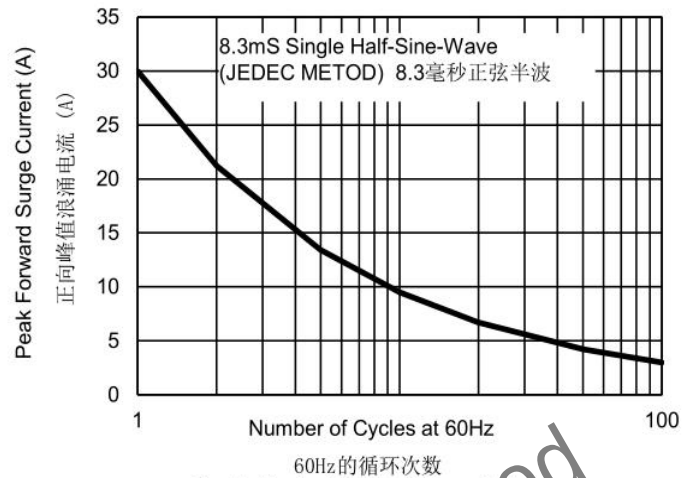


Fig. 4 - Typical Forward Characteristics

图4 典型的正向特性

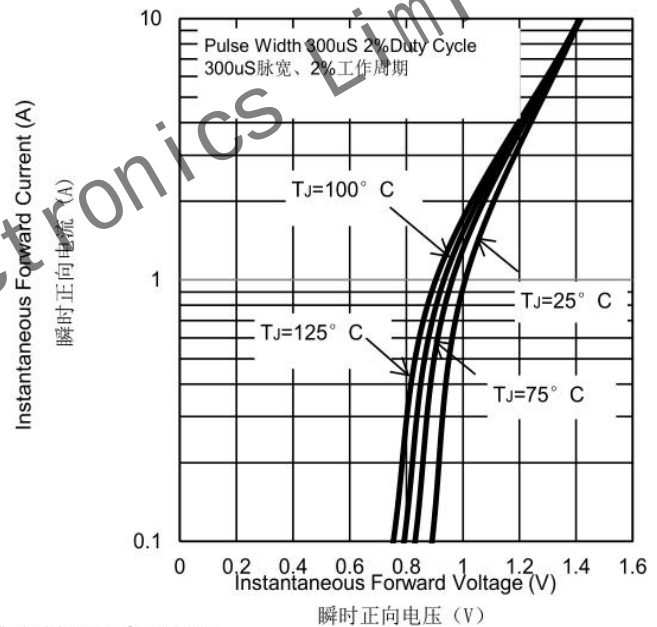


Fig. 5 - Typical Junction Capacitance

图5 典型的结电容

