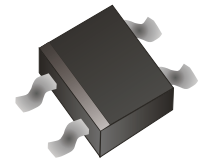


DB101S-G Thru. DB107S-G

Reverse Voltage: 50 to 1000V

Forward Current: 1.0A

RoHS Device

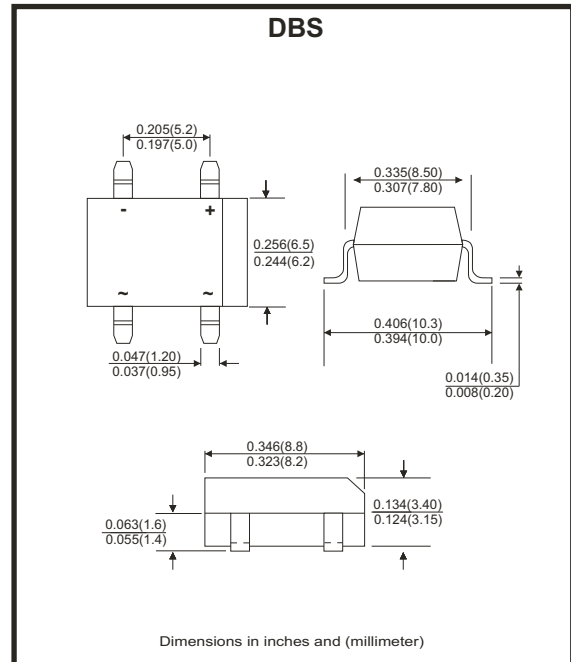


Features

- 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

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



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%

| Parameter | Symbol | DB101S-G | DB102S-G | DB103S-G | DB104S-G | DB105S-G | DB106S-G | DB107S-G | Unit |
|--|-----------------|------------|----------|----------|----------|----------|----------|----------|------------------|
| | marking | DB101S | DB102S | DB103S | DB104S | DB105S | DB106S | DB107S | |
| Maximum Reverse Peak Repetitive Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @ $T_A=40$ °C | $I_{(AV)}$ | 1.0 | | | | | | | A |
| Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load | I_{FSM} | 50 | | | | | | | A |
| $I^2 t$ Rating For Fusing ($t < 8.3ms$) | $I^2 t$ | 10.4 | | | | | | | A ² s |
| Maximum Forward Voltage At 1.0A DC | V_F | 1.1 | | | | | | | V |
| Maximum Reverse Current @ $T_J=25$ °C At rRated DC Blocking Voltage @ $T_J=125$ °C | I_R | 10 500 | | | | | | | μA |
| Typical Junction Capacitance (Note 1) | C_J | 25 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 40 | | | | | | | °C/W |
| Operating Temperature Range | T_J | -55 ~ +150 | | | | | | | °C |
| Storage Temperature Range | T_{STG} | -55 ~ +150 | | | | | | | °C |

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V.
2. Unit mounted on P.C.B with 0.51"×0.51" (13×13mm) copper pads.

Rating and Characteristics Curves (DB101S-G Thru. DB107S-G)

Fig. 1 Forward Current Derating Curve

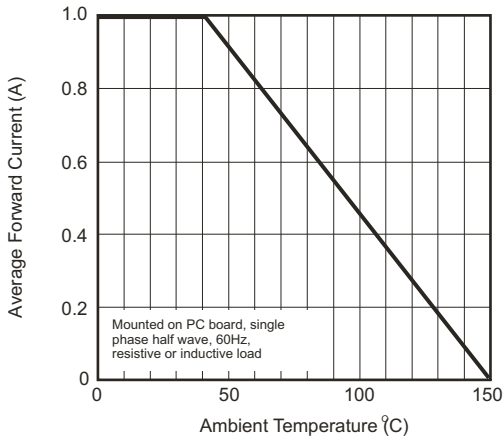


Fig. 2 Maximum Non-repetitive Surge Current

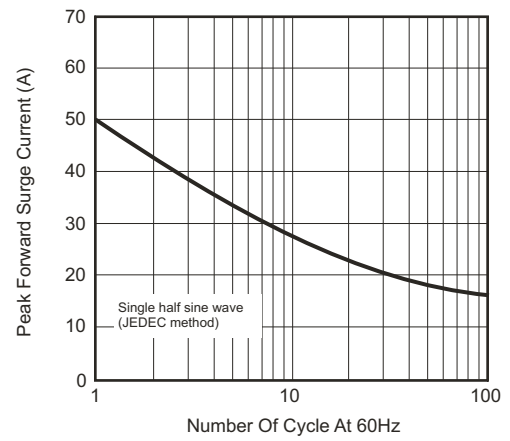


Fig. 3- Typical Junction Capacitance

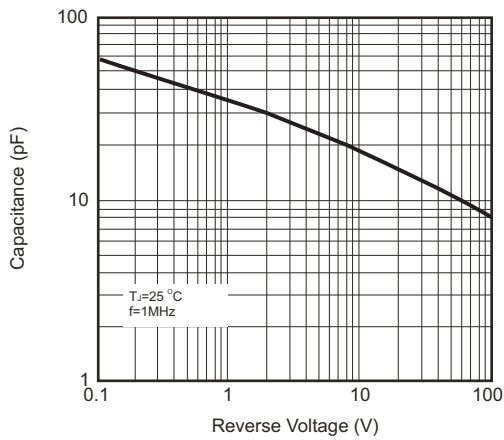


Fig. 4 Typical Forward Characteristics

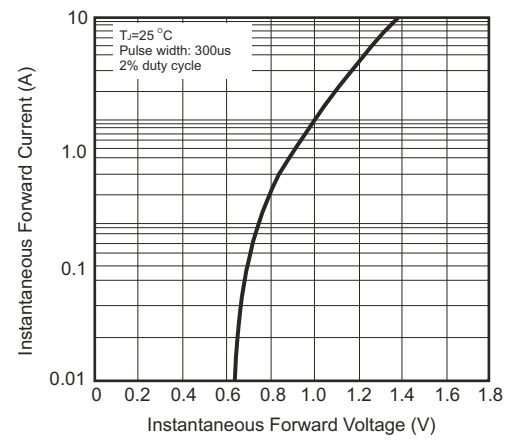


Fig. 5- Typical Reverse Characteristics

