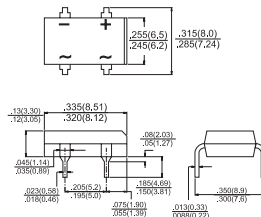




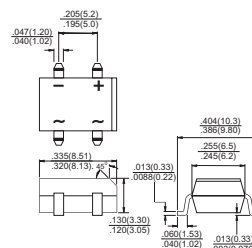
DB



Features

- ◇ UL Recognized File # E-96005
- ◇ Glass passivated junction
- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique
- ◇ High temperature soldering guaranteed:
260 °C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension
- ◇ Small size, simple installation
Pure tin plated, Lead free. Leads solderable
per MIL-STD-202, Method 208
- ◇ High surge current capability

DBS



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

| Type Number | Symbol | DB | DB | DB | DB | DB | DB | DB | Units |
|--|------------------------------------|-------------|------|------|------|------|------|------|--------------------------------|
| | | 101G | 102G | 103G | 104G | 105G | 106G | 107G | |
| | | DBS | DBS | DBS | DBS | DBS | DBS | DBS | |
| | | 101G | 102G | 103G | 104G | 105G | 106G | 107G | |
| Maximum Recurrent Peak Reverse 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 @ $T_A = 40^\circ\text{C}$ | $I_{(AV)}$ | 1.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I_{FSM} | 50 | | | | | | | A |
| Maximum Instantaneous Forward Voltage @ 1.0A | V_F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$ | I_R | 10 500 | | | | | | | μA μA |
| Typical Thermal resistance (Note 1) | $R_{\theta JA}$ $R_{\theta JL}$ | 40 15 | | | | | | | $^\circ\text{C}/\text{W}$ |
| Operating Temperature Range | T_J | -55 to +150 | | | | | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ\text{C}$ |

- Notes:
1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted On P.C.B. with 0.2" x 0.2" (5mm x 5mm) Copper Pads.
 2. DBS for Surface Mount Package.

RATINGS AND CHARACTERISTIC CURVES (DB(S)101G THRU DB(S)107G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

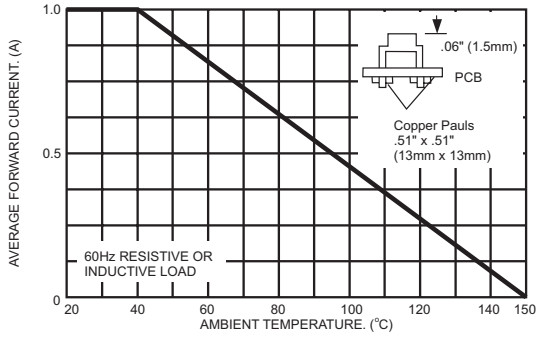


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

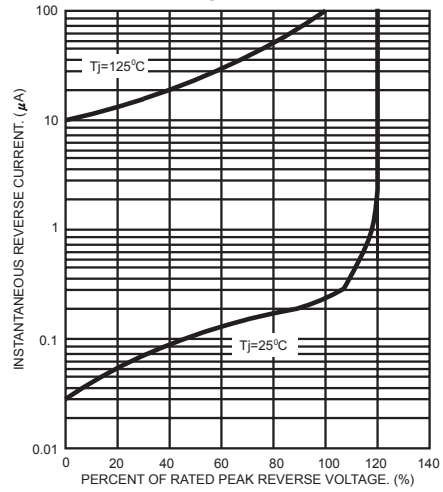


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

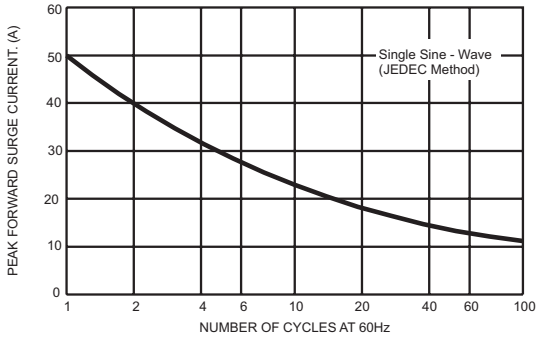


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

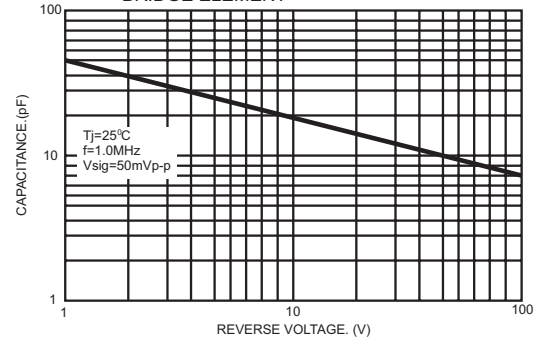


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

