



DB101G THRU DB107G

Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers



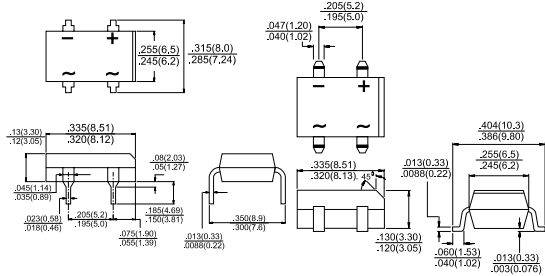
Voltage Range
50 to 1000 Volts
Current
1.0 Ampere

Features

- ✧ UL Recognized File # E-96005
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ High temperature soldering guaranteed:
250°C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension
- ✧ Small size, simple installation
Leads solderable per MIL-STD-202,
Method 208
- ✧ High surge current capability

DB

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 | DB101G | DB102G | DB103G | DB104G | DB105G | DB106G | DB107G | Units |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| | DBS 101G | DBS 102G | DBS 103G | DBS 104G | DBS 105G | DBS 106G | DBS 107G | |
| Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @ T _A = 40°C | 1.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | 50 | | | | | | | A |
| Maximum Instantaneous Forward Voltage @ 1.0A | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C | 10 500 | | | | | | | µA µA |
| Operating Temperature Range T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range T _{STG} | -55 to +150 | | | | | | | °C |

Note: DBS for Surface Mount Package.

RATINGS AND CHARACTERISTIC CURVES (DB101G THRU DB107G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

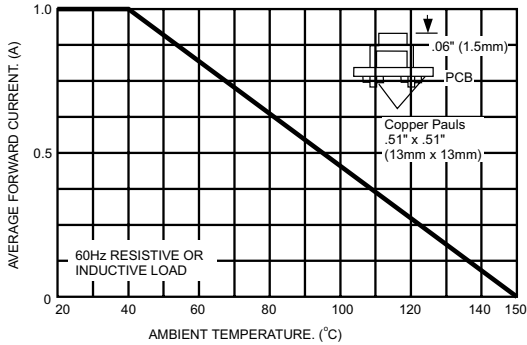


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

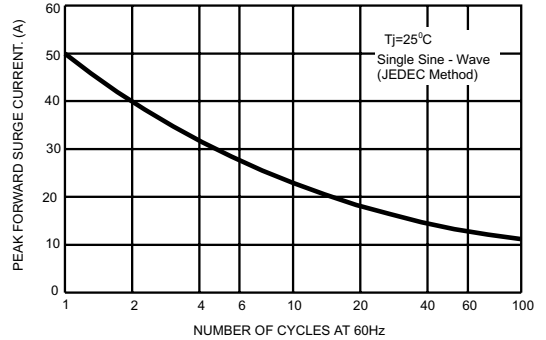


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

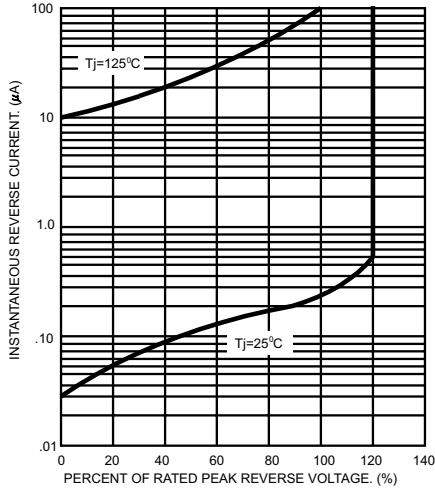


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

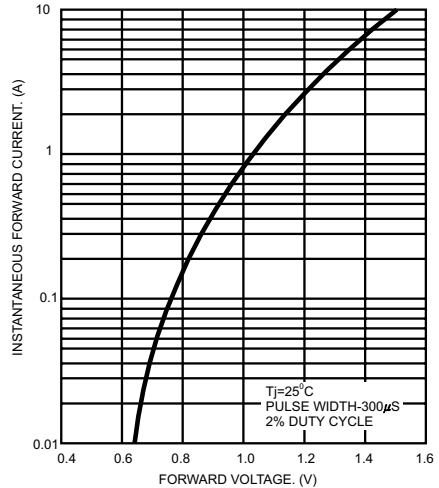


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

