



DBL101G THRU DBL107G

Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers

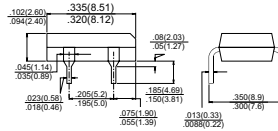
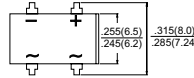


Voltage Range
50 to 1000 Volts
Current
1.0 Ampere

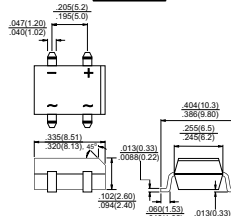
Features

- ✧ UL Recognized File # E-96005
- ✧ 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
Leads solderable per MIL-STD-202,
Method 208
- ✧ High surge current capability

DBL



DBLS



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 | DBL 101G | DBL 102G | DBL 103G | DBL 104G | DBL 105G | DBL 106G | DBL 107G | Units |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|
| | DBLS 101G | DBLS 102G | DBLS 103G | DBLS 104G | DBLS 105G | DBLS 106G | DBLS 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 |
| Typical Thermal resistance (Note 1) R _{θJA} R _{θJL} | 40 15 | | | | | | | °C/W |
| Operating Temperature Range T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range T _{STG} | -55 to +150 | | | | | | | °C |

Note: 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted
On P.C.B. with 0.47 x 0.47" (12 x 12mm) Copper Pads.

2. DBS for Surface Mount Package.

RATINGS AND CHARACTERISTIC CURVES (DBL101G THRU DBL107G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

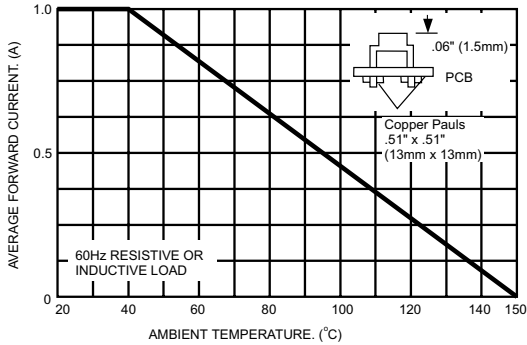


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

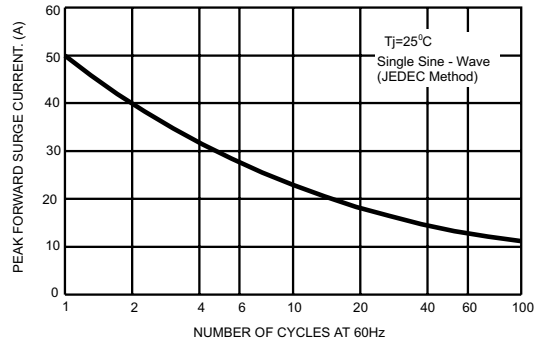


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

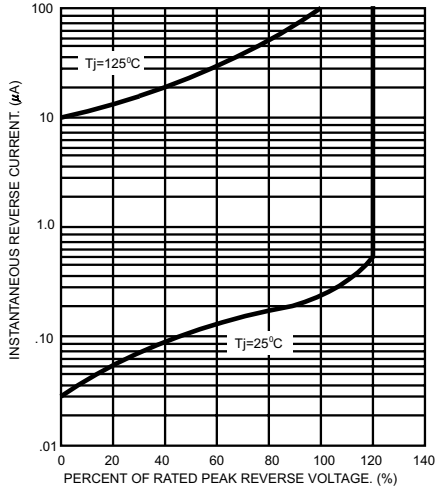


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

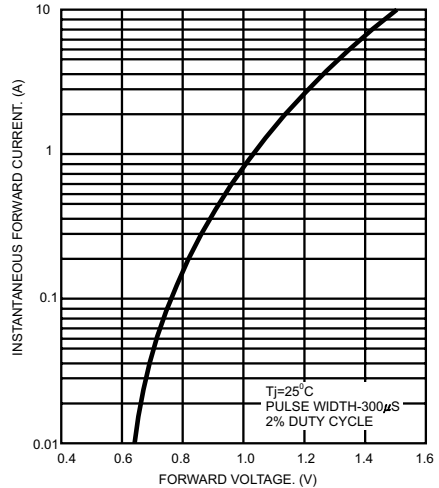
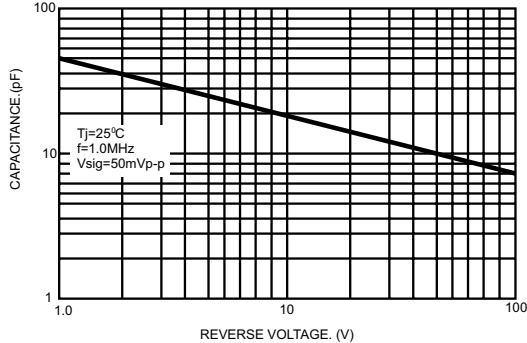


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT





LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.