DBL101G THRU DBL107G

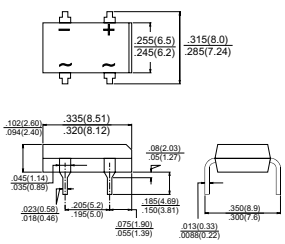
Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers


Voltage Range
50 to 1000 Volts
Current
1.0 Ampere

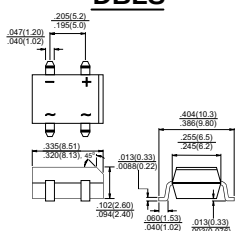
Features

- ✧ 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℃ / 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℃ 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 / DBLS 101G	DBL 102G / DBLS 102G	DBL 103G / DBLS 103G	DBL 104G / DBLS 104G	DBL 105G / DBLS 105G	DBL 106G / DBLS 106G	DBL 107G / DBLS 107G	Units
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℃	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℃ at Rated DC Blocking Voltage @ T_A=125℃	10 500							uA uA
Typical Thermal resistance (Note 1) RθJA RθJL	40 15							℃/W
Operating Temperature Range T_J	-55 to +150							℃
Storage Temperature Range T_{STG}	-55 to +150							℃

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

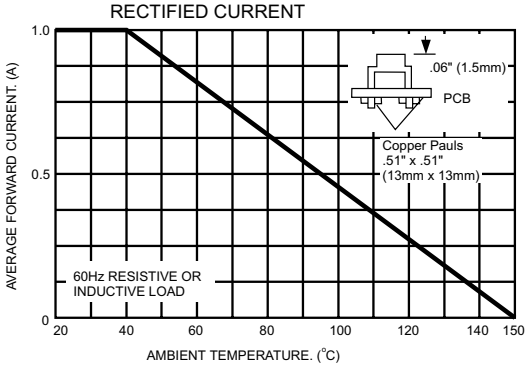


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

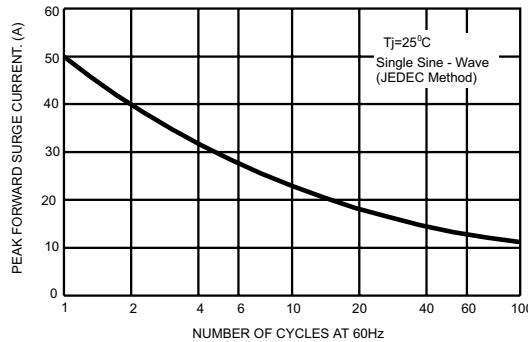


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

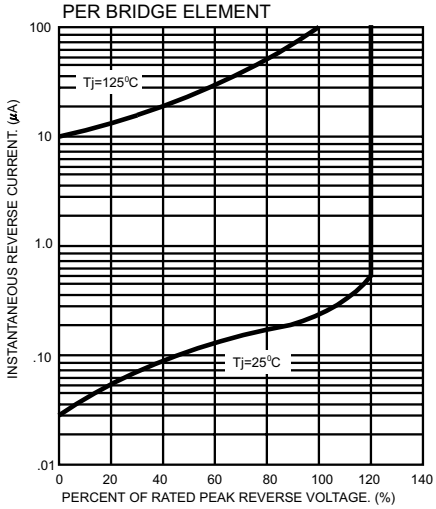


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

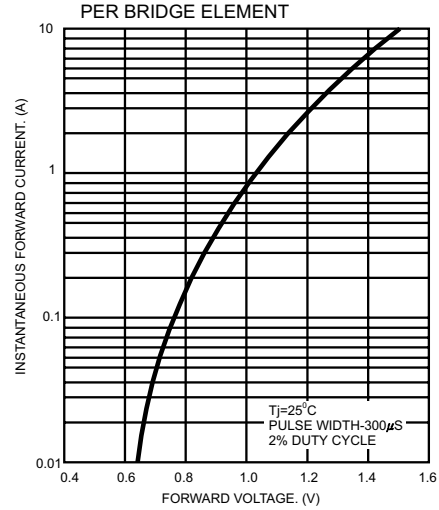


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT