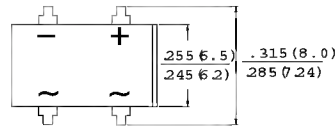


# DBL101G - DBL107G

Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers

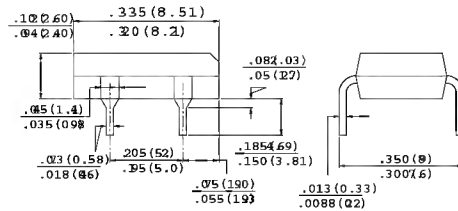


## DBL



## Features

- ✦ 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 terminal, Lead free. Leads solderable per MIL-STD-202, Method 208
- ✦ High surge current capability
- ✦ Green compound with suffix "G" on packing code & prefix "G" on datecode.



Dimensions in inches and (millimeters)

### Marking Diagram



DBL10XG = Specific Device Code  
 G = Green Compound  
 Y = Year  
 WW = Work Week

## 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	DBL 101G	DBL 102G	DBL 103G	DBL 104G	DBL 105G	DBL 106G	DBL 107G	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ <sub>T<sub>A</sub></sub> = 40 °C	I(AV)	1.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	IFSM	50							A
Maximum Instantaneous Forward Voltage @ 1.0A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> =25 °C at Rated DC Blocking Voltage @ T <sub>A</sub> =125 °C	I <sub>R</sub>	10 500							uA uA
Typical Junction Capacitance	C <sub>j</sub>	25							pF
Typical Thermal resistance (Note 1)	R <sub>θJA</sub> R <sub>θJL</sub>	40 15							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°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" (5 x 5mm) Copper Pads.
  2. DBLS for Surface Mount Package.

## RATINGS AND CHARACTERISTIC CURVES (DBL101G THRU DBL107G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

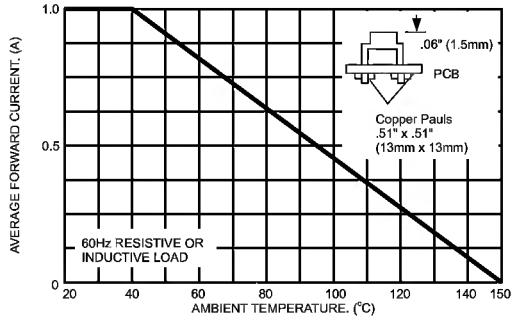


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

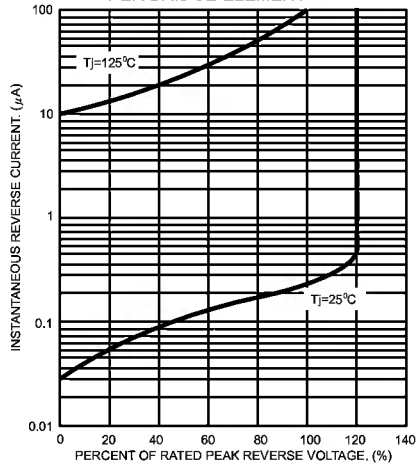


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

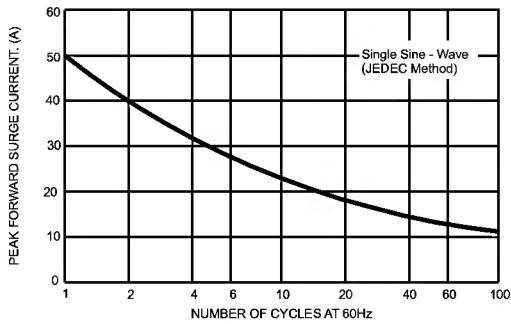


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

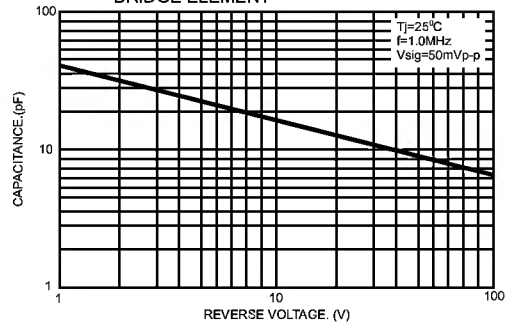


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

