

## **DBL(S)101G - DBL(S)107G**



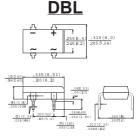
Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers



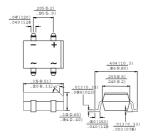


## **Features**

- ♦ 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







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	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	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	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 <sub>A</sub> = 40 °C	I <sub>(AV)</sub>	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	50							А
Maximum Instantaneous Forward Voltage @ 1.0A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @ $T_A$ =25 °C at Rated DC Blocking Voltage @ $T_A$ =125 °C	I <sub>R</sub>	10 500							uA uA
Typical Junction Capacitance	Cj	25							рF
Typical Thermal resistance (Note 1)	$R_{ heta JA} \ R_{ heta JL}$	40 15							°C/W
Operating Temperature Range	TJ	-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.

Version: B07



## RATINGS AND CHARACTERISTIC CURVES (DBL(S)101G THRU DBL(S)107G)

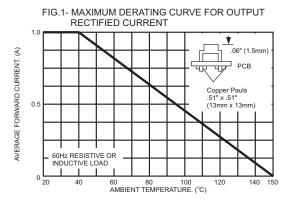


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

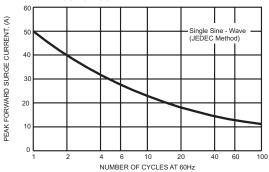


FIG.5- TYPICAL FORWARD CHARACTERISTICS

