

DBLS101G - DBLS107G

Single Phase 1.0AMP. Glass Passivated Bridge Rectifiers

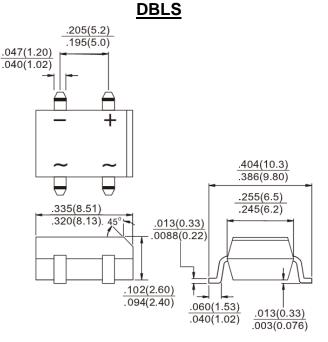






Features

- ♦ UL Recognized File # E-326854
- ♦ Glass passivated junction
- ♦ Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- ↔ High temperature soldering guaranteed: 260°C / 10 seconds at 5lbs., (2.3kg) tension
- ♦ High surge current capability
- Green compound with suffix "G" on packing code & prefix "G" on datecode



Mechanical Data

- ♦ Case: Molded plastic body
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- ♦ Weight: 0.36 grams

Dimensions in inches and (millimeters)

Marking Diagram DBLS10XG = S

G

Υ

WW

- DBLS10XG SGYWW
- = Specific Device Code
 - = Green Compound
- = Year
- = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!\!C$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

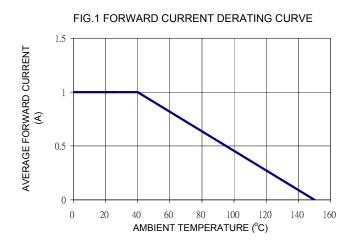
Type Number		Symbol	DBLS 101G	DBLS 102G	DBLS 103G	DBLS 104G	DBLS 105G	DBLS 106G	DBLS 107G	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =40 $^{\circ}$ C		I _{F(AV)}	1							А
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	40 30					60	А	
Maximum Instantaneous Forward Voltage (Note 1) @1.0A		V _F	1.1						V	
Maximum DC Reverse Current at Rated DC Block Voltage	@T _A =25℃ @ T _A =125℃	I _R				10 500			uA	
Typical Junction Capabitance		Cj	25						pF	
Typical Thermal Resistance (Note 2)		R _{θjA} R _{θjL}	40 15							^o C/W
Operating Temperature Range		TJ	- 55 to + 150						°C	
Storage Temperature Range		T _{STG}	- 55 to + 150						°C	

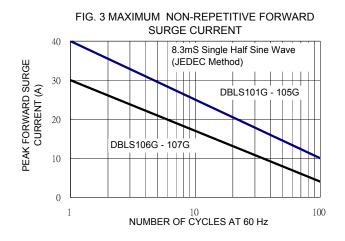
Notes 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Notes 2: Mounted On P.C.B. with 2" x 2" (5 x 5mm) Copper Pads.

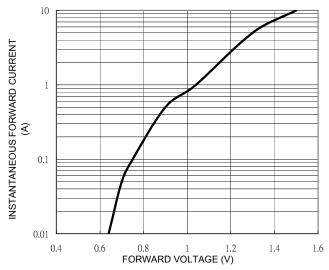


RATINGS AND CHARACTERISTIC CURVES (DBLS101G THRU DBLS107G)









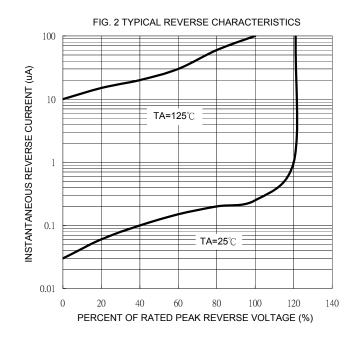


FIG. 4 TYPICAL JUNCTION CAPACITANCE

