



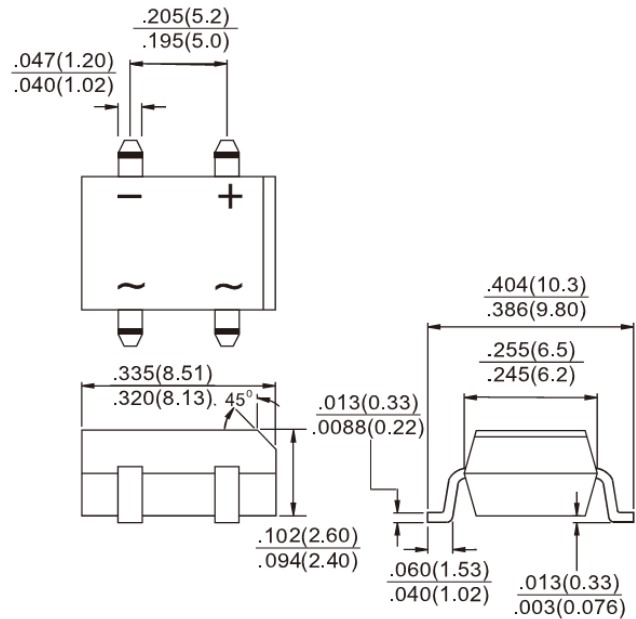
DBLS101G - DBLS107G

Single Phase 1.0AMP. Glass Passivated Bridge Rectifiers

DBLS

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 | = 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	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°C	I _{F(AV)}	1							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	40					30		A
Maximum Instantaneous Forward Voltage (Note 1) @1.0A	V _F	1.1							V
Maximum DC Reverse Current @T _A =25°C at Rated DC Block Voltage @ T _A =125 °C	I _R	10 500							uA
Typical Junction Capabitanace	C _j	25							pF
Typical Thermal Resistance (Note 2)	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

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. 1 FORWARD CURRENT DERATING CURVE

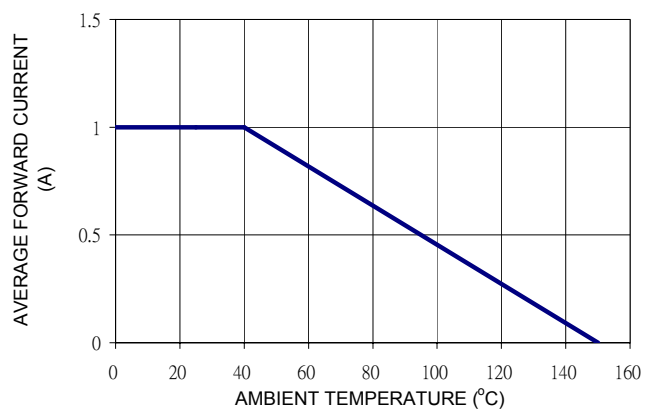


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

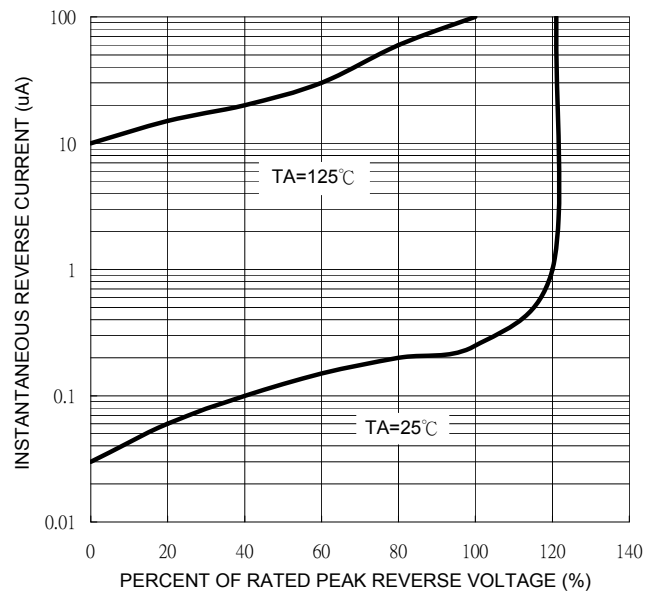


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

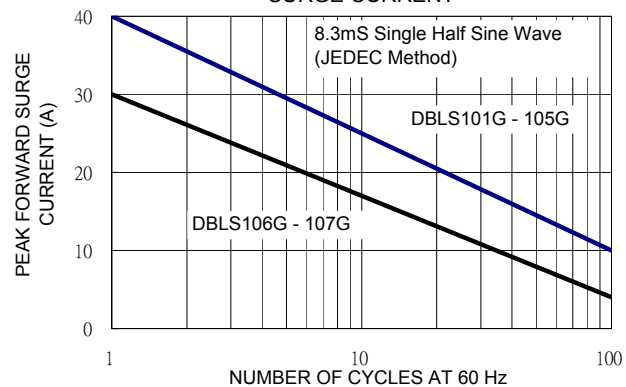


FIG. 4 TYPICAL JUNCTION CAPACITANCE

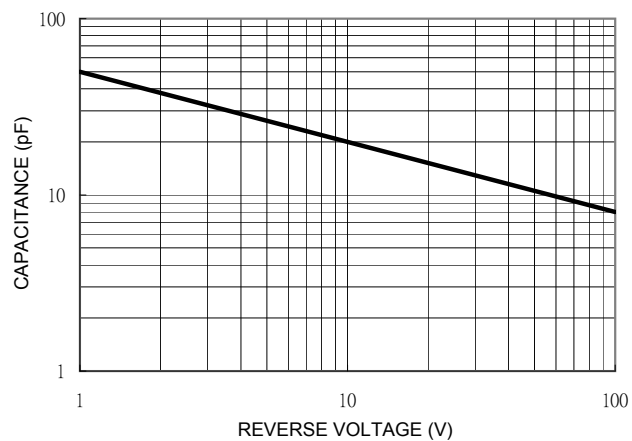


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

