



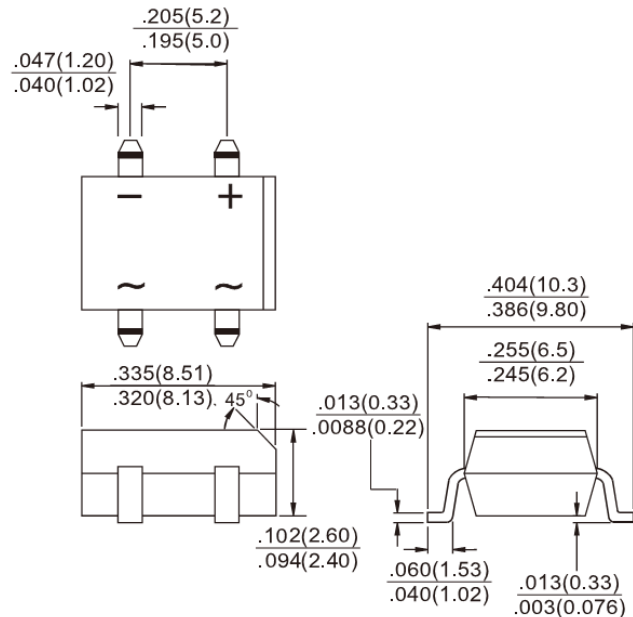
RoHS
COMPLIANCE



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 @ $T_A=40^{\circ}C$	$I_{F(AV)}$	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 @ $T_A=25^{\circ}C$ at Rated DC Block Voltage @ $T_A=125^{\circ}C$	I_R	10 500							μA
Typical Junction Capabitanace	C_j	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$ $R_{\theta JL}$	40 15							$^{\circ}C/W$
Operating Temperature Range	T_J	- 55 to + 150							$^{\circ}C$
Storage Temperature Range	T_{STG}	- 55 to + 150							$^{\circ}C$

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

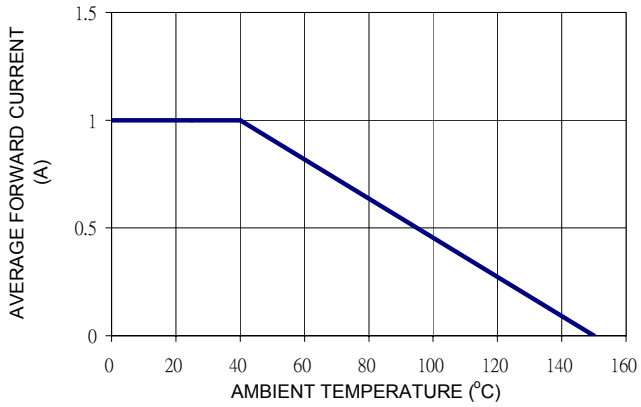


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

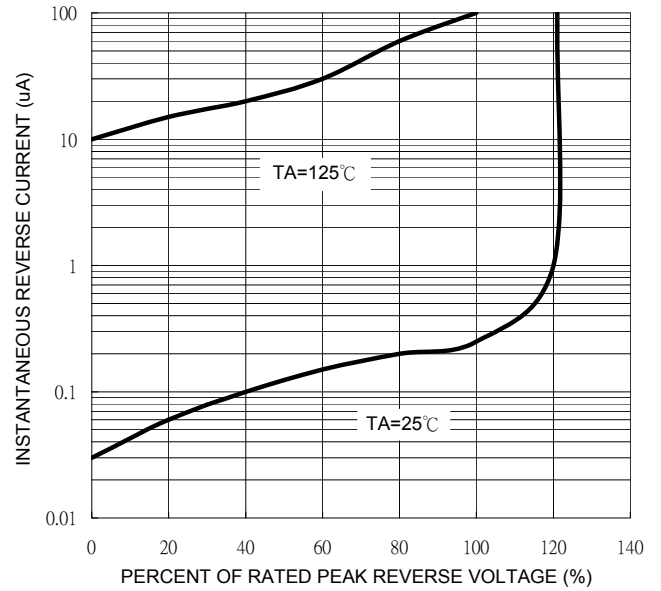


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

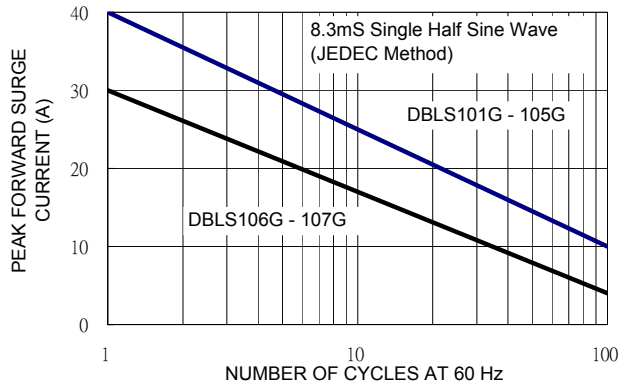


FIG. 4 TYPICAL JUNCTION CAPACITANCE

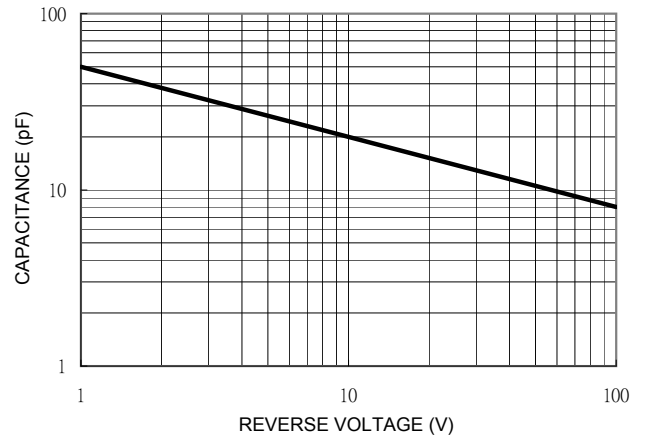


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

