



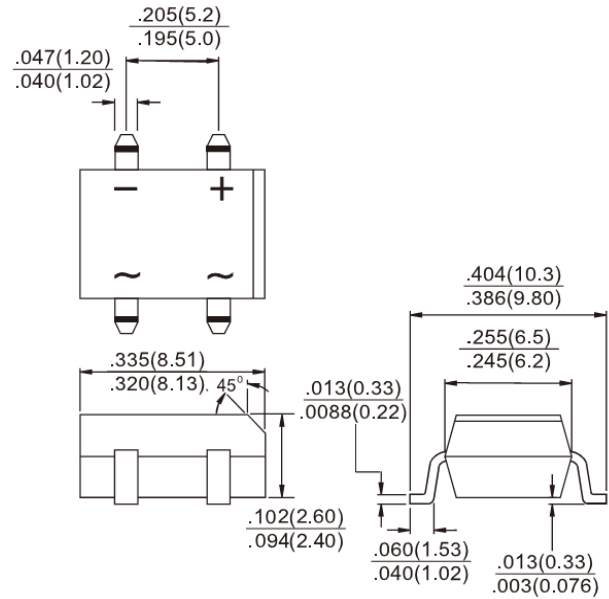
RoHS
COMPLIANCE



DBLS

Features

- ✧ UL Recognized File #E-326854
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed: 260°C / 10 seconds at 5lbs., (2.3kg) tension
- ✧ Small size, simple installation
- ✧ 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



- DBLS20XG = 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 201G	DBLS 202G	DBLS 203G	DBLS 204G	DBLS 205G	DBLS 206G	DBLS 207G	DBLS 208G	DBLS 209G	Unit	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1200	1400	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	840	980	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	1200	1400	V	
Maximum Average Forward Rectified Current @ $T_A=40^\circ C$	$I_{F(AV)}$	2.0									A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50									A	
Maximum Instantaneous Forward Voltage (Note 1) @2.0A	V_F	1.15							1.30		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 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 0.4" x 0.4" (10mm x 10 mm) Copper Pads

RATINGS AND CHARACTERISTIC CURVES (DBLS201G THRU DBLS209G)

FIG. 1 FORWARD CURRENT DERATING CURVE

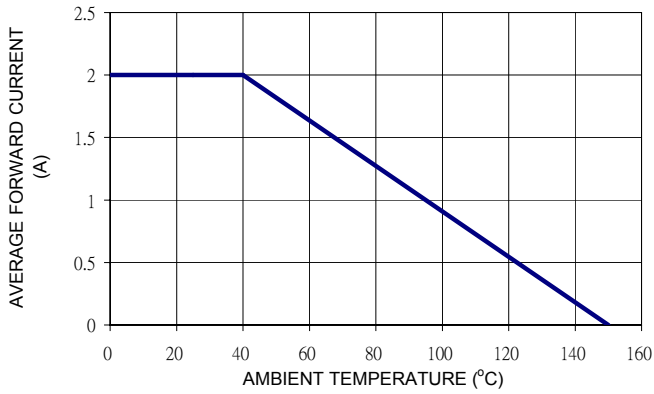


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

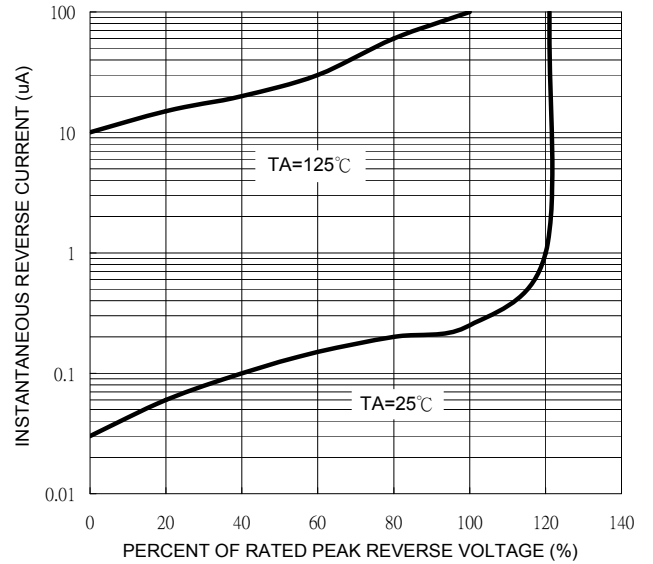


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

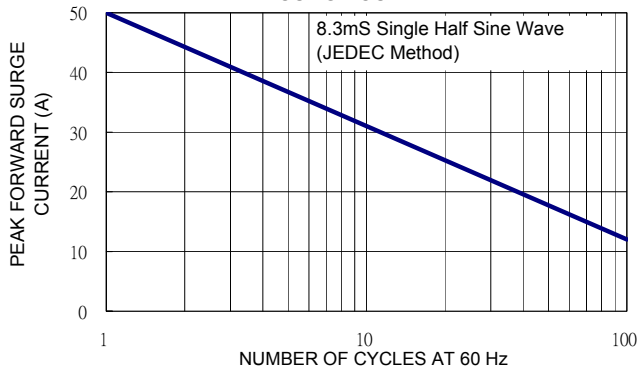


FIG. 4 TYPICAL JUNCTION CAPACITANCE

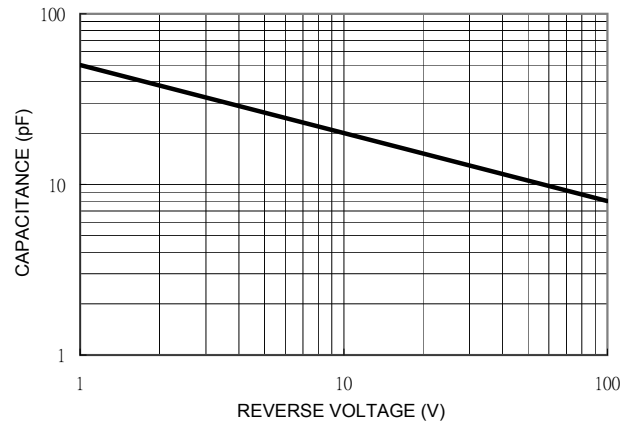


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

