



DBLS151G - DBLS159G

Single Phase 1.5AMP. Glass Passivated Bridge Rectifiers

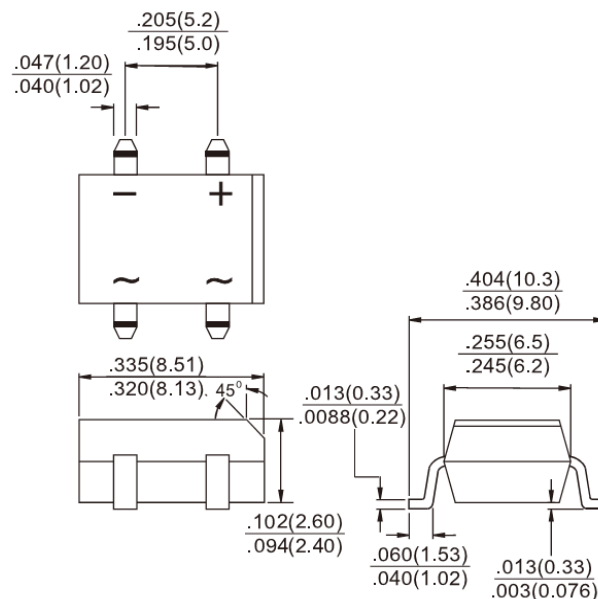
DBLS

Features

- UL Recognized File # E-326854
- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High 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: DBLS
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- Weight: 0.36 grams
- Mounting position: as Marking



Dimensions in inches and (millimeters)

Marking Diagram



- DBLS15XG = 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 151G	DBLS 152G	DBLS 153G	DBLS 154G	DBLS 155G	DBLS 156G	DBLS 157G	DBLS 158G	DBLS 159G	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℃	I _{F(AV)}	1.5									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) @1.5A	V _F	1.1							1.25		V
Rating for fusing (t<8.3ms)	I ² T	10.3									A ² S
Maximum DC Reverse Current @T _A =25℃ at Rated DC Block Voltage @ T _A =125 ℃	I _R	5 500									uA
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 0.4" x 0.4" (10mm x 10 mm) Copper Pads

RATINGS AND CHARACTERISTIC CURVES (DBLS151G THRU DBLS159G)

FIG.1 FORWARD CURRENT DERATING CURVE

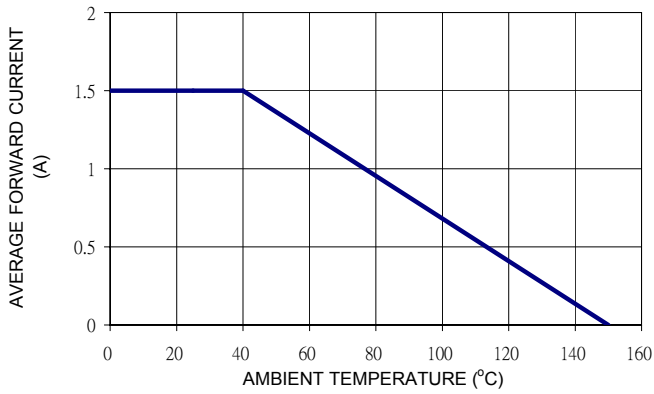


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

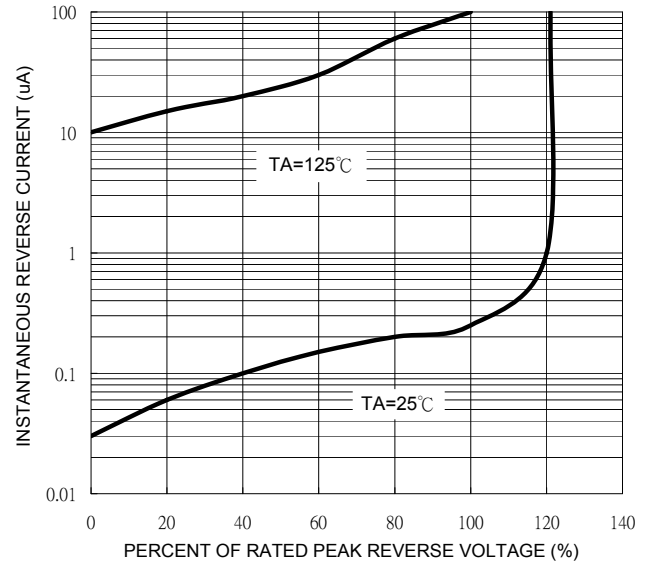


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

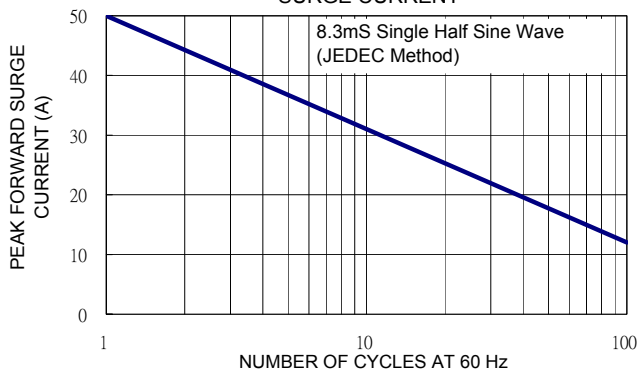


FIG. 4 TYPICAL JUNCTION CAPACITANCE

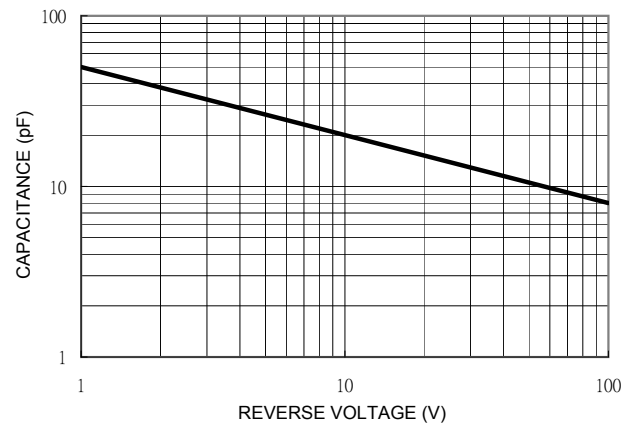


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

