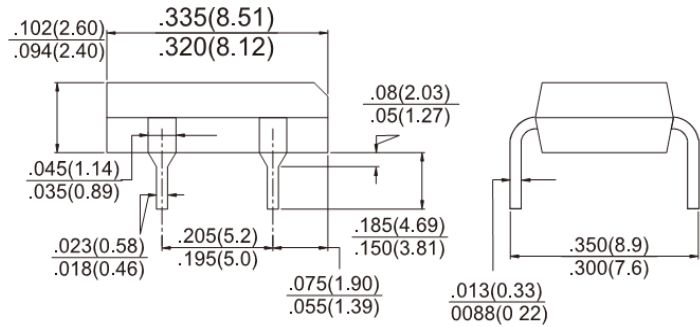
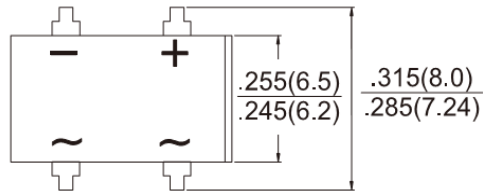




DBL151G - DBL159G

Single Phase 1.5AMP. Glass Passivated Bridge Rectifiers

DBL


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
- ✦ 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: 0.38 grams

Dimensions in inches and (millimeters)

Marking Diagram



- P/N = 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	DBL 151G	DBL 152G	DBL 153G	DBL 154G	DBL 155G	DBL 156G	DBL 157G	DBL 158G	DBL 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	$I_{F(AV)}$	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	
Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Block Voltage @ $T_A=125^{\circ}C$	I_R	5					500					μA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	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

RATINGS AND CHARACTERISTIC CURVES (DBL151G THRU DBL159G)

FIG. 1 FORWARD CURRENT DERATING CURVE

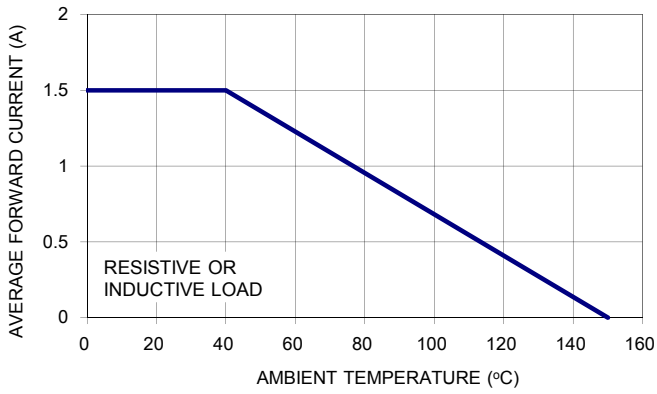


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

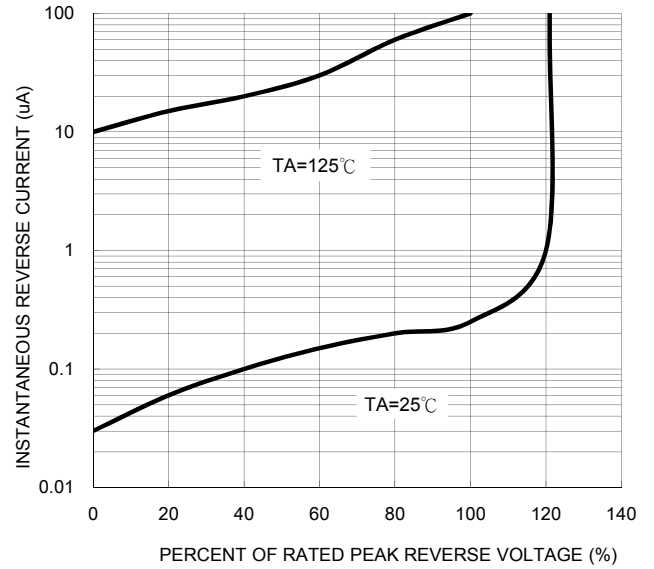


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

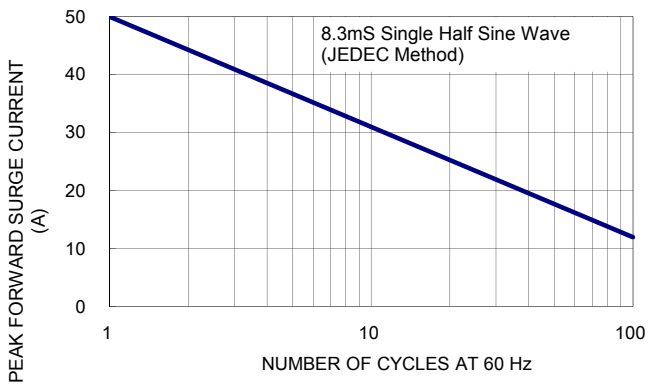


FIG. 4 TYPICAL JUNCTION CAPACITANCE

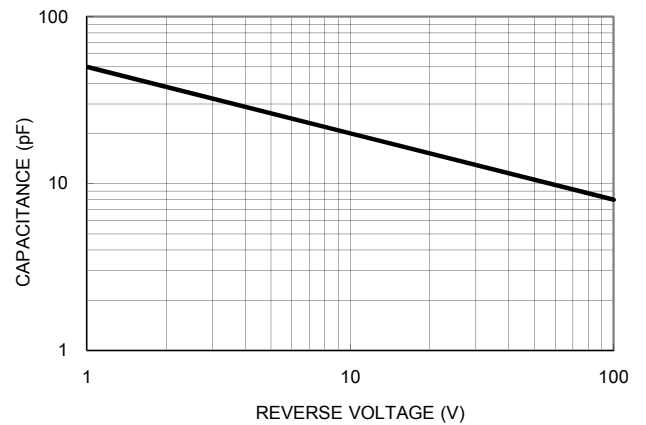


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

