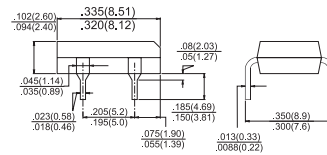
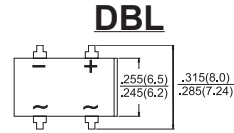
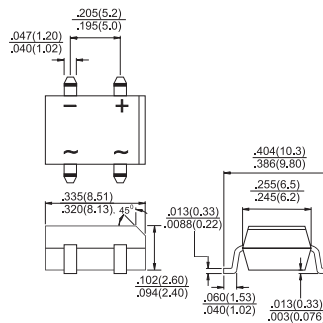


DBL(S)151G - DBL(S)159G

Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers



DBLS



Dimensions in inches and (millimeters)

Features

- ✧ 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 5 lbs., (2.3 kg) tension
- ✧ Small size, simple installation
- ✧ Pure tin plated terminal, Lead free. Leads solderable per MIL-STD-202 Method 208

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	DBL	DBL	DBL	DBL	DBL	DBL	DBL	DBL	Units	
		151G	152G	153G	154G	155G	156G	157G	158G	159G		
Maximum Recurrent 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 @ $T_A = 40^\circ\text{C}$	$I_{(AV)}$	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 @ 1.5A	V_F	1.1						1.25			V	
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R					5						μA μA
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$					40						$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +150									$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-55 to +150									$^\circ\text{C}$	

Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.4" x 0.4" (10mm x 10mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (DBL(S)151G THRU DBL(S)159G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

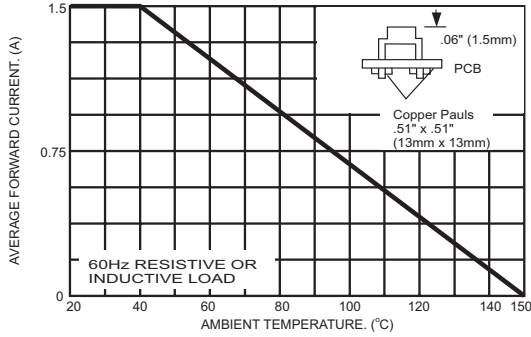


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

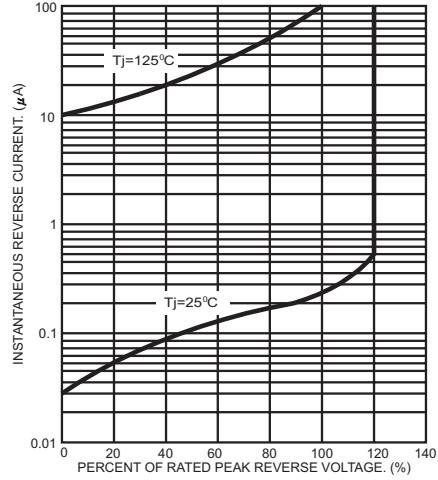


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

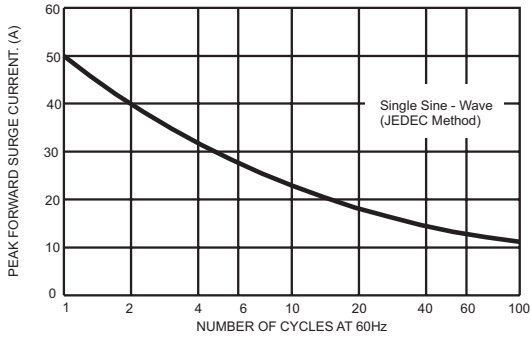


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

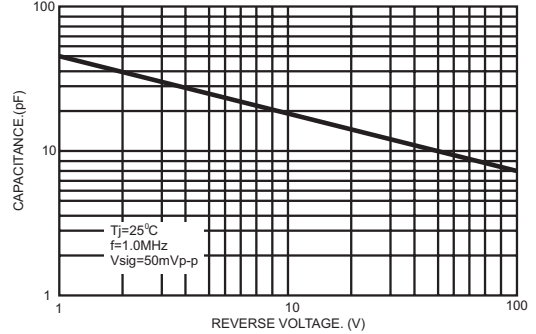
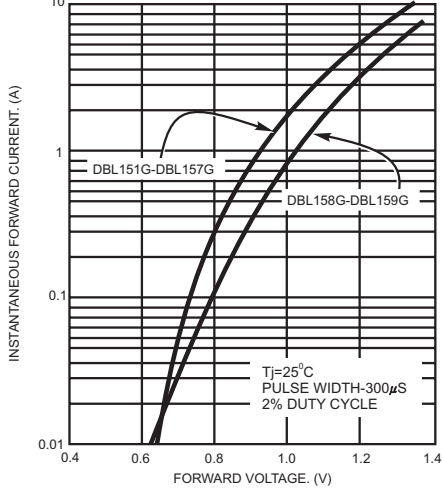


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



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[DBLS152G](#) [DBLS153G](#) [DBLS154G](#) [DBLS155G](#) [DBLS156G](#) [DBLS157G](#) [DBLS158G](#) [DBLS159G](#)