



DBL151G THRU DBL159G

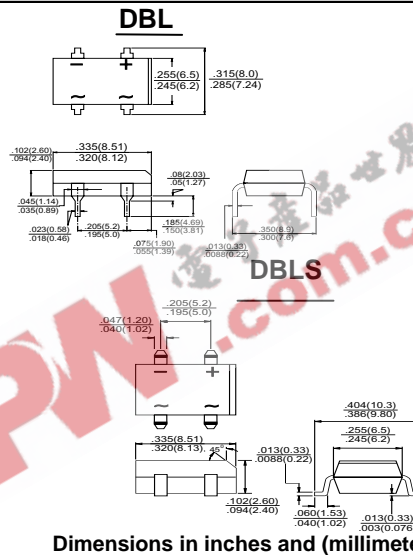
Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range
50 to 1400 Volts
Current
1.5 Amperes

Features

- ✧ UL Recognized File # E-96005
- ✧ 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
- ✧ Leads solderable per MIL-STD-202 Method 208



Dimensions in inches and (millimeters)

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	DBL 151G	DBL 152G	DBL 153G	DBL 154G	DBL 155G	DBL 156G	DBL 157G	DBL 158G	DBL 159G	Units
	DBLS 151G	DBLS 152G	DBLS 153G	DBLS 154G	DBLS 155G	DBLS 156G	DBLS 157G	DBLS 158G	DBLS 159G	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	1200	1400	V
Maximum RMS Voltage	35	70	140	280	420	560	700	840	980	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	1200	1400	V
Maximum Average Forward Rectified Current @ T _A = 40°C	1.5									A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50									A
Maximum Instantaneous Forward Voltage @ 1.5A	1.1						1.25			V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	10									uA
	500									uA
Typical Thermal Resistance (Note) R _{θJA} R _{θJL}	40									°C/w
	15									°C/w
Operating Temperature Range T _J	-55 to +150									°C
Storage Temperature Range T _{STG}	-55 to +150									°C

Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.51 x 0.51" (13 x 13mm) Copper Pads.



RATINGS AND CHARACTERISTIC CURVES (DBL151G THRU DBL159G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

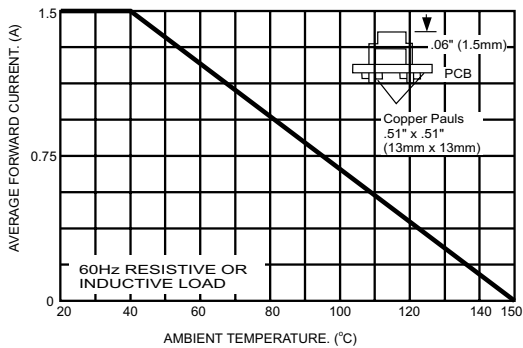


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

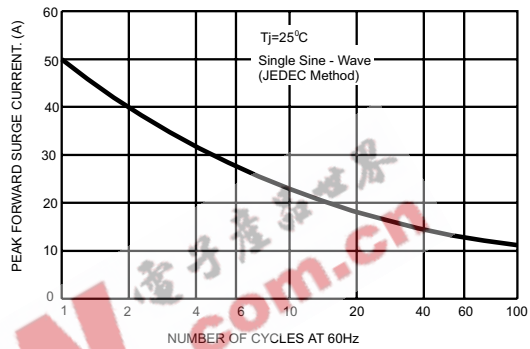


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

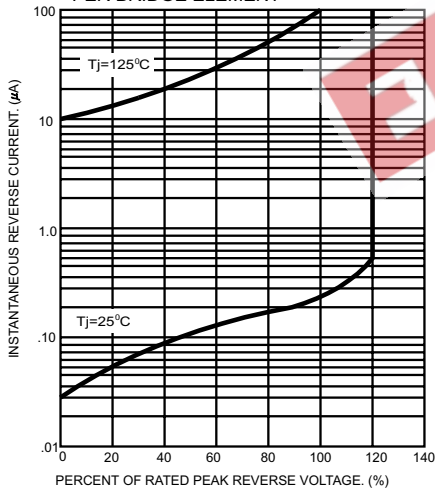


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

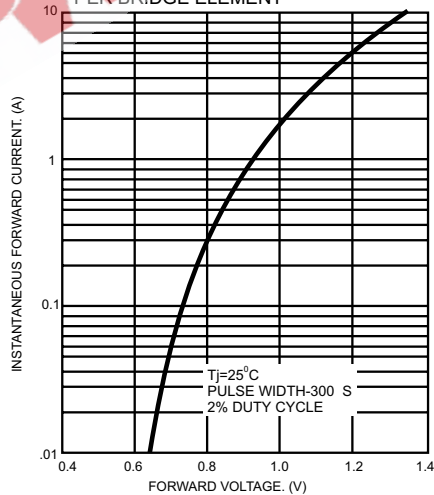


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

