DBL151G THRU DBL159G

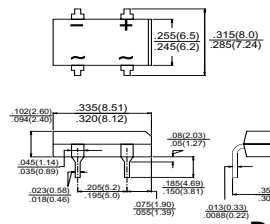
Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers


Voltage Range
50 to 1400 Volts
Current
1.5 Amperes

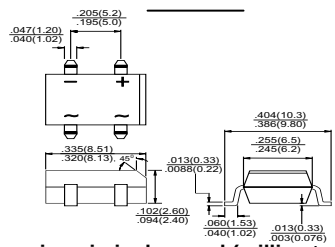
Features

- ✧ 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℃ / 10 seconds at 5 lbs., (2.3 kg) tension
- ✧ Small size, simple installation
- ✧ Leads solderable per MIL-STD-202 Method 208

DBL



DBLS



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ 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** / **DBLS 151G**	**DBL 152G** / **DBLS 152G**	**DBL 153G** / **DBLS 153G**	**DBL 154G** / **DBLS 154G**	**DBL 155G** / **DBLS 155G**	**DBL 156G** / **DBLS 156G**	**DBL 157G** / **DBLS 157G**	**DBL 158G** / **DBLS 158G**	**DBL 159G** / **DBLS 159G**	Units
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℃	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℃ at Rated DC Blocking Voltage @ T_A=125℃	10 500									uA uA
Typical Thermal Resistance (Note) RθJA RθJL	40 15									℃/w
Operating Temperature Range T_J	-55 to +150									℃
Storage Temperature Range T_{STG}	-55 to +150									℃

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

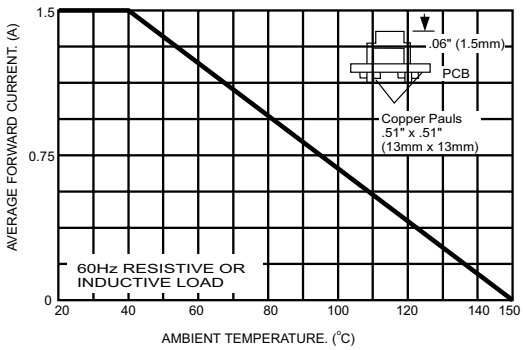


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

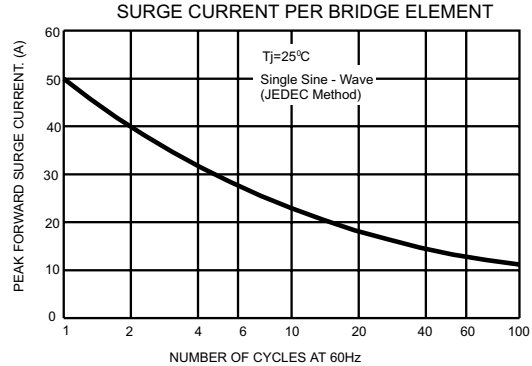


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

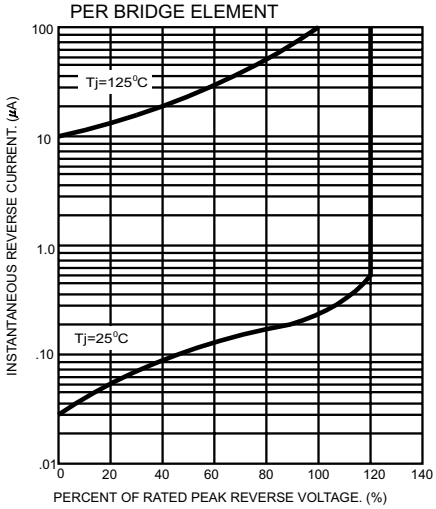


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

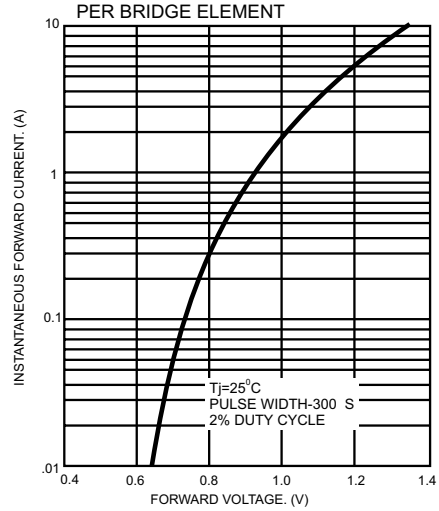


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT