



# HDBL151G THRU HDBL159G

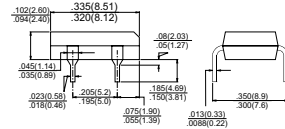
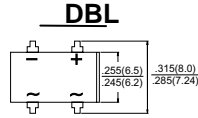
Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers



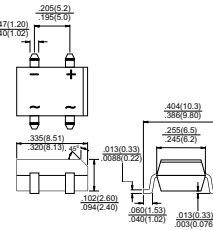
Voltage Range  
50 to 1400 Volts  
Current  
1.5 Amperes

## 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: 250°C / 10 seconds at 5 lbs., ( 2.3 kg ) tension
- ✧ Small size, simple installation
- ✧ Leads solderable per MIL-STD-202 Method 208



## DBLS



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.

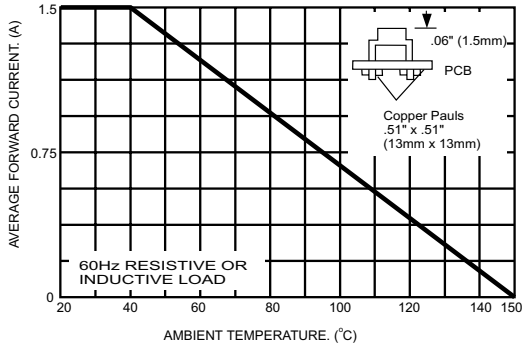
For capacitive load, derate current by 20%

Type Number	HDBL	HDBL	HDBL	HDBL	HDBL	HDBL	HDBL	HDBL	HDBL	Units
	151G	152G	153G	154G	155G	156G	157G	158G	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 <sub>A</sub> = 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 <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =125°C					10					µA
					500					µA
Typical Thermal Resistance (Note) R <sub>θJA</sub> R <sub>θJL</sub>					40					°C/w
					15					°C/w
Operating Temperature Range T <sub>J</sub>	-55 to +150									°C
Storage Temperature Range T <sub>STG</sub>	-55 to +150									°C

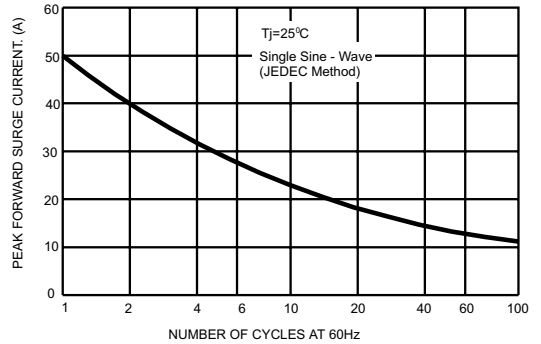
Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.51 x 0.51" (13 x 13mm) Copper Pads.

## RATINGS AND CHARACTERISTIC CURVES (HDBL151G THRU HDBL159G)

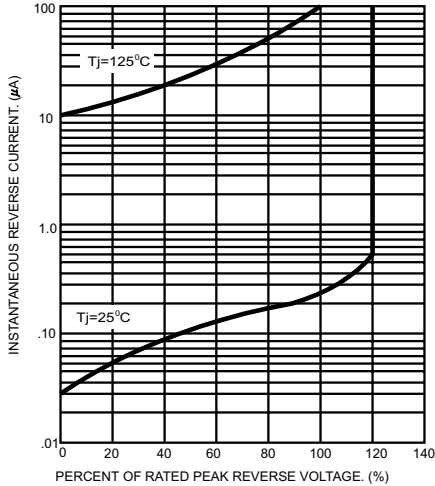
**FIG. 1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



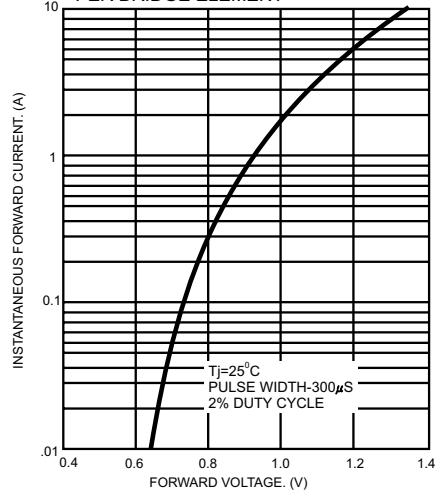
**FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT**



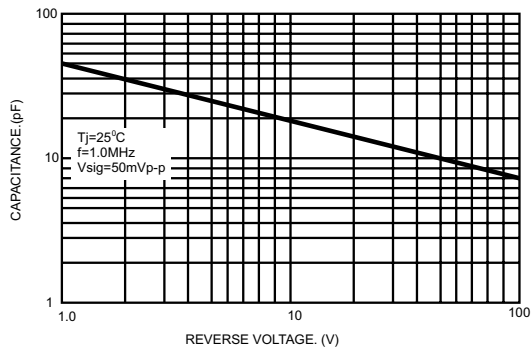
**FIG. 3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT**



**FIG. 4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT**



**FIG. 5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT**



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