



DBLS151G - DBLS159G

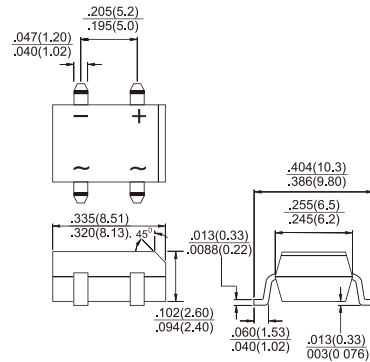
Single Phase 1.5 AMPS.

Glass Passivated Bridge Rectifiers

DBLS

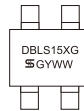
Features

- ✧ 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
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode.



Dimensions in inches and (millimeters)

Marking Diagram



DBLS15XG = Specific Device Code
G = Green Compound
Y = Year
WW = Work Week

Mechanical Data

- ✧ Case : DBLS
- ✧ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ✧ Weight:0.36 grams
- ✧ Mounting position : as Marking

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	DBLS 151G	DBLS 152G	DBLS 153G	DBLS 154G	DBLS 155G	DBLS 156G	DBLS 157G	DBLS 158G	DBLS 159G	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	1200	1400	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	840	980	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	1200	1400	V
Maximum Average Forward Rectified Current @TA = 40 °C	IF (AV)	1.5									A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	50									A
Maximum Instantaneous Forward Voltage @ 1.5A	VF	1.1							1.25		V
Rating for fusing (t<8.3ms)	I²t	10.3									A²S
Maximum DC Reverse Current @ TA=25 °C at Rated DC Blocking Voltage (Note 1) @ TA=125 °C	IR	5 500									uA uA
Typical Thermal Resistance (Note 2)	RθJA RθJL	40 15									°C/W
Operating Temperature Range	TJ	-55 to +150									°C
Storage Temperature Range	TSTG	-55 to +150									°C

Note: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

2. Mounted on P.C.B. with 0.4" x 0.4" (10mm x 10mm) Copper Pads.

Version: F10

RATINGS AND CHARACTERISTIC CURVES (DBLS151G THRU DBLS159G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

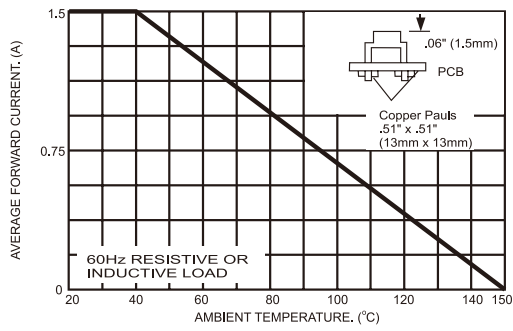


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

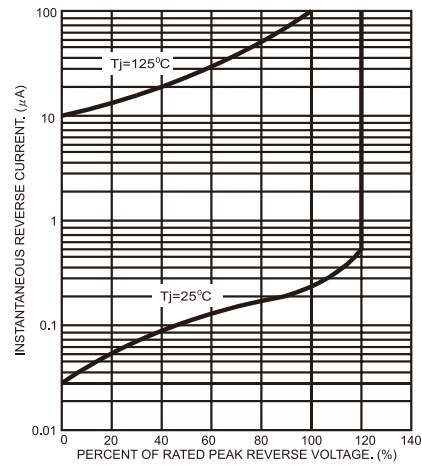


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

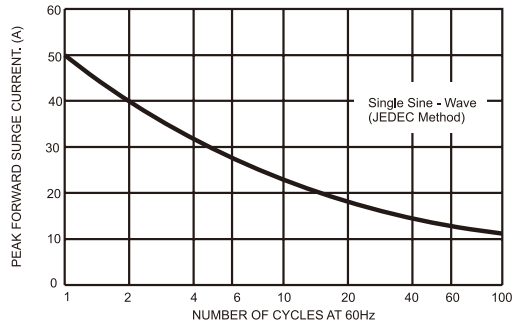


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

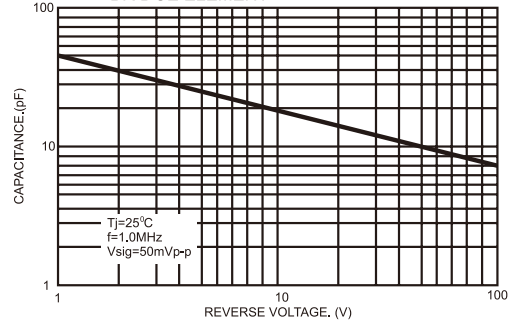


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

