



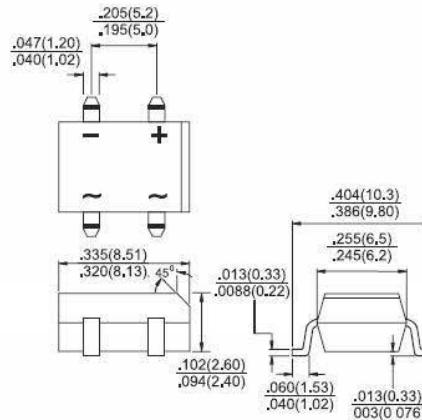
DBLS151G - DBLS159G

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 gram
- ◇ Mounting position : Any

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	Unit
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 @ $T_A = 40^\circ C$	$I_{(AV)}$	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
Rating for fusing ($t < 8.3ms$)	I^2T	10.3									A^2sec
Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 125^\circ C$	I_R	5 500									μA
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$	40 15									$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150									$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150									$^\circ C$

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 (DBLS151G THRU DBLS159G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

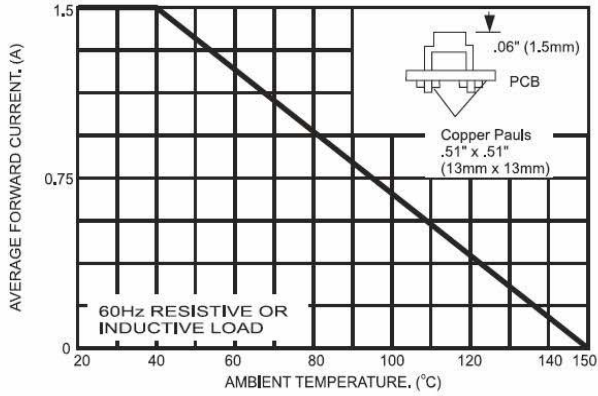


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

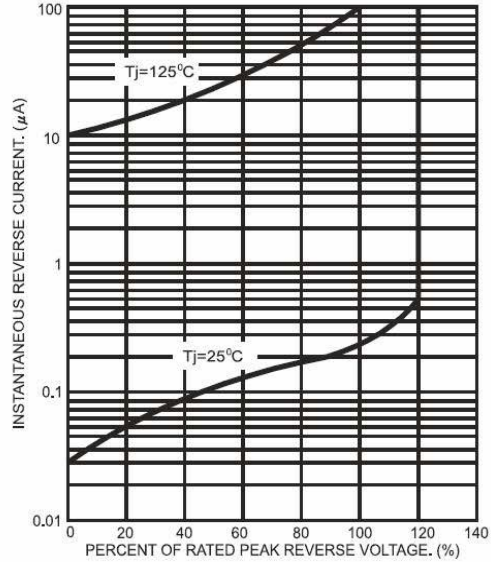


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

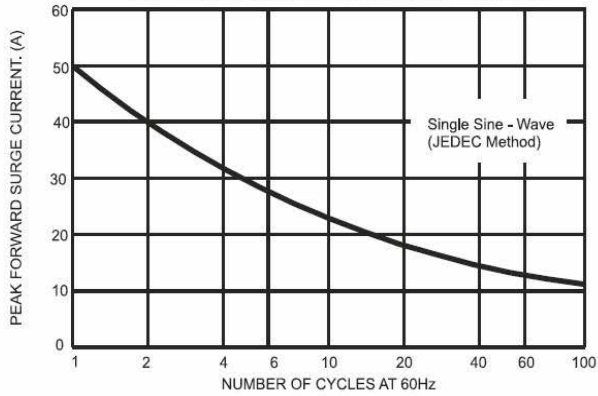


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

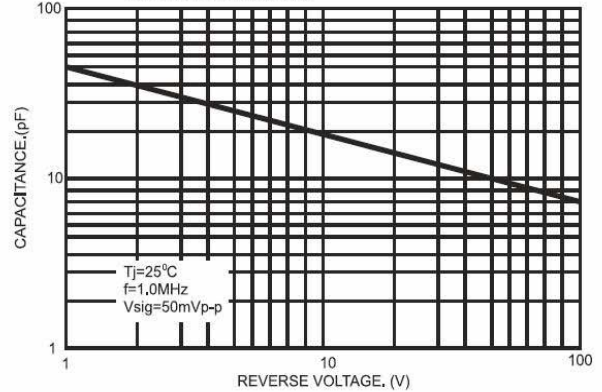


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

