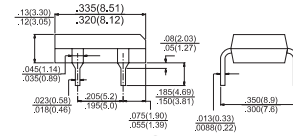
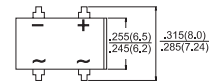


# DB(S)151G - DB(S)159G

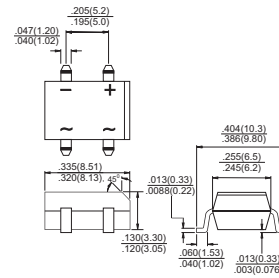
Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers



## DB



## DBS



Dimensions in inches and (millimeters)

## 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
- ✧ Pure tin plated terminal, Lead free. Leads solderable per MIL-STD-202 Method 208

## 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	DB	DB	DB	DB	DB	DB	DB	DB	DB	Units
		151G	152G	153G	154G	155G	156G	157G	158G	159G	
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
Rating for Fusing (t<8.3ms)	$I^2t$	10.3									A <sup>2</sup> sec
Maximum Instantaneous Forward Voltage @ 1.5A	$V_F$	1.1						1.25			V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	$I_R$					5.0					uA
						500					uA
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$					40					°C/W
						15					
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 0.4" x 0.4" (10mm x 10mm) Copper Pads.

## RATINGS AND CHARACTERISTIC CURVES (DB(S)151G THRU DB(S)159G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

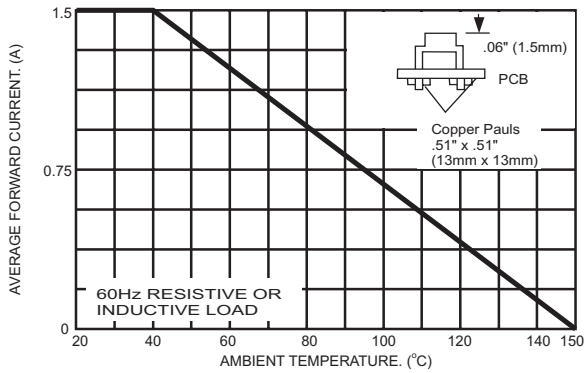


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

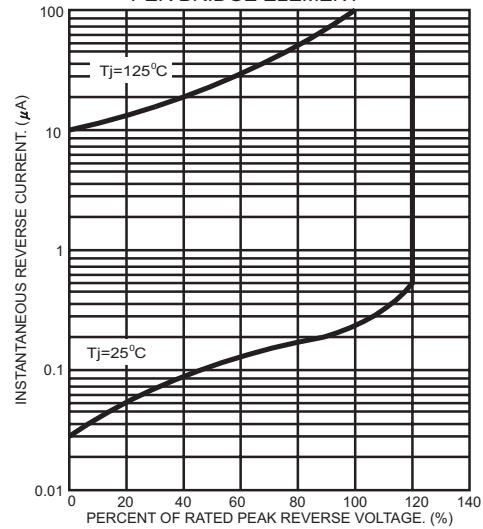


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

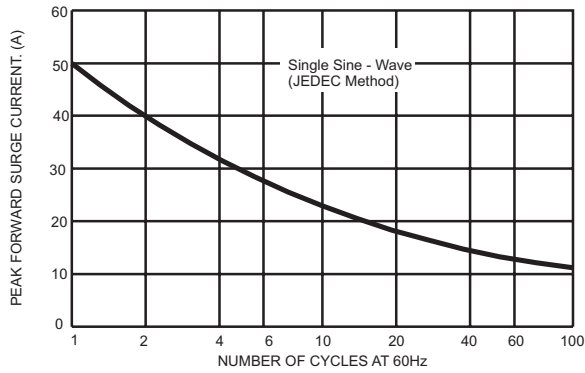


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

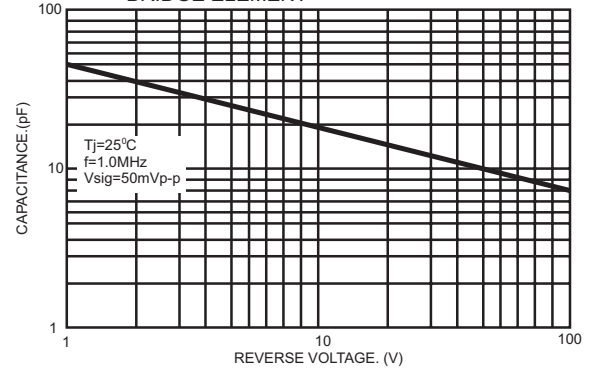


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

