

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

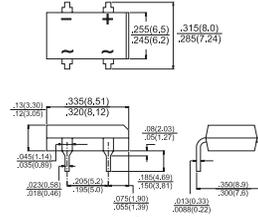
Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers



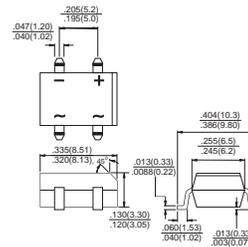
Features

- ✧ 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

DB



DBS



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	Symbol	DB	DB	DB	DB	DB	DB	DB	DB	DB	Units	
		151G	152G	153G	154G	155G	156G	157G	158G	159G		
		DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS		
		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 @ $T_A = 40^\circ\text{C}$	$I_{(AV)}$	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	
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I_R					5						μA μA
						500						μA
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$					40						$^\circ\text{C/W}$
						15						$^\circ\text{C/W}$
Operating Temperature Range	T_J					-55 to +150					$^\circ\text{C}$	
Storage Temperature Range	T_{STG}					-55 to +150					$^\circ\text{C}$	

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.

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

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

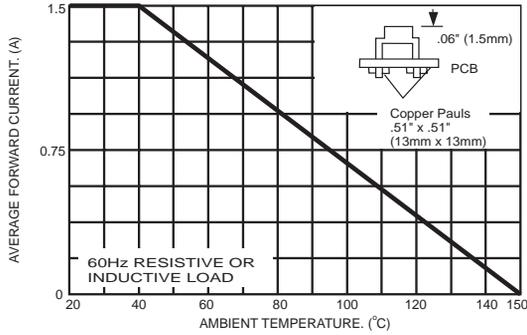


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

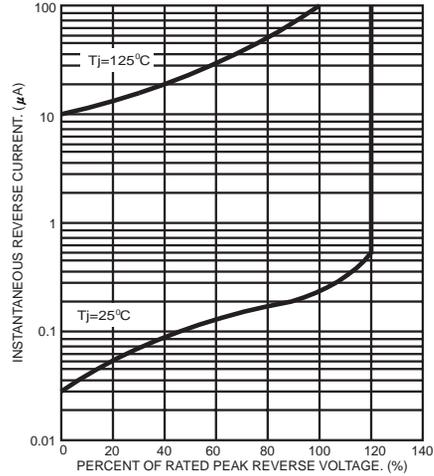


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

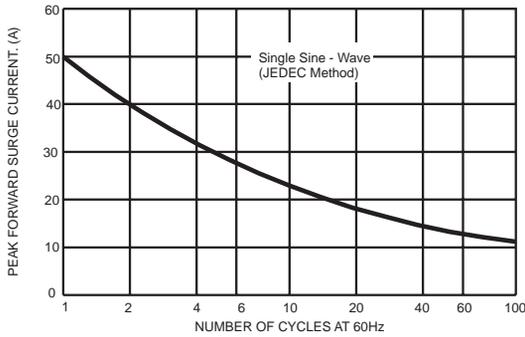


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

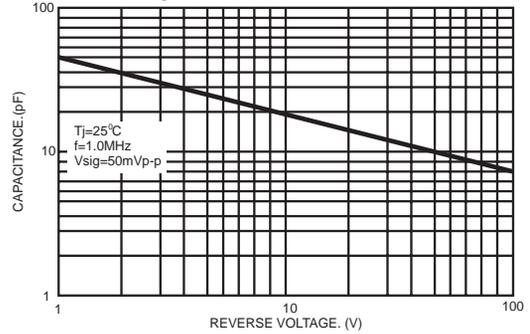


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

