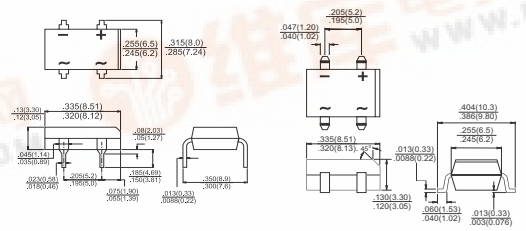


	DB151G THRU DB157G Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers																																																																																																																							
	Voltage Range 50 to 1000 Volts Current 1.5 Amperes																																																																																																																							
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: 260°C / 10 seconds at 5 lbs., (2.3 kg) tension - Small size, simple installation - Leads solderable per MIL-STD-202 Method 208	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% <table><tr><th>Type Number</th><th>Symbol</th><th>DB 151G</th><th>DB 152G</th><th>DB 153G</th><th>DB 154G</th><th>DB 155G</th><th>DB 156G</th><th>DB 157G</th><th>Units</th></tr><tr><td></td><td></td><td>DBS 151G</td><td>DBS 152G</td><td>DBS 153G</td><td>DBS 154G</td><td>DBS 155G</td><td>DBS 156G</td><td>DBS 157G</td><td></td></tr><tr><td>Maximum Recurrent Peak Reverse Voltage</td><td>V_{RRM}</td><td>50</td><td>100</td><td>200</td><td>400</td><td>600</td><td>800</td><td>1000</td><td>V</td></tr><tr><td>Maximum RMS Voltage</td><td>V_{RMS}</td><td>35</td><td>70</td><td>140</td><td>280</td><td>420</td><td>560</td><td>700</td><td>V</td></tr><tr><td>Maximum DC Blocking Voltage</td><td>V_{DC}</td><td>50</td><td>100</td><td>200</td><td>400</td><td>600</td><td>800</td><td>1000</td><td>V</td></tr><tr><td>Maximum Average Forward Rectified Current @ T_A = 40°C</td><td>I_(AV)</td><td colspan="7">1.5</td><td>A</td></tr><tr><td>Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)</td><td>I_{FSM}</td><td colspan="7">50</td><td>A</td></tr><tr><td>Maximum Instantaneous Forward Voltage @ 1.5A</td><td>V_F</td><td colspan="7">1.1</td><td>V</td></tr><tr><td>Maximum DC Reverse Current @ T_A=25°C at Rated DC Blocking Voltage @ T_A=125°C</td><td>I_R</td><td colspan="7">10 500</td><td>uA uA</td></tr><tr><td>Typical Thermal Resistance (Note)</td><td>R_{θJA} R_{θJL}</td><td colspan="7">40 15</td><td>°C/w</td></tr><tr><td>Operating Temperature Range</td><td>T_J</td><td colspan="7">-55 to +150</td><td>°C</td></tr><tr><td>Storage Temperature Range</td><td>T_{STG}</td><td colspan="7">-55 to +150</td><td>°C</td></tr></table>	Type Number	Symbol	DB 151G	DB 152G	DB 153G	DB 154G	DB 155G	DB 156G	DB 157G	Units			DBS 151G	DBS 152G	DBS 153G	DBS 154G	DBS 155G	DBS 156G	DBS 157G		Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V	Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	Maximum Average Forward Rectified Current @ T _A = 40°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							V	Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	I _R	10 500							uA uA	Typical Thermal Resistance (Note)	R _{θJA} R _{θJL}	40 15							°C/w	Operating Temperature Range	T _J	-55 to +150							°C	Storage Temperature Range	T _{STG}	-55 to +150						
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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 (DB151G THRU DB157G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

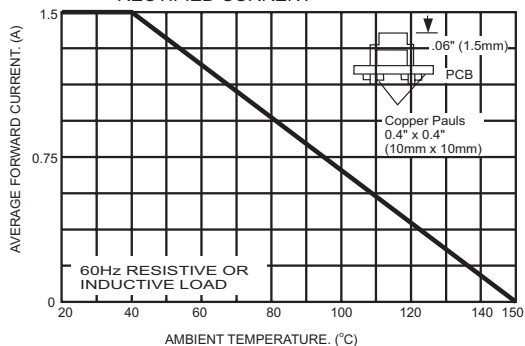


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

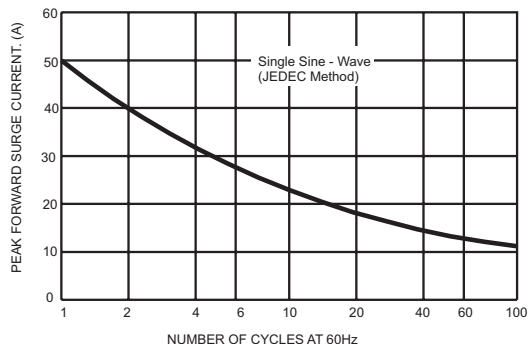


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

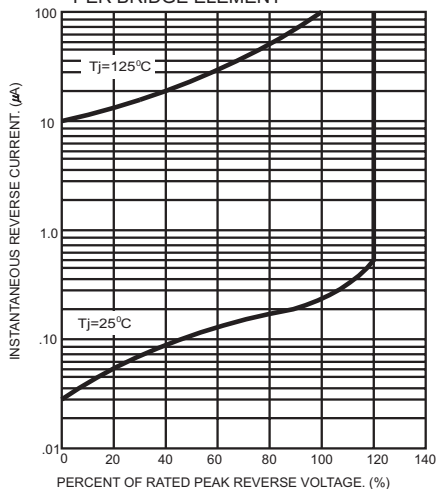


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

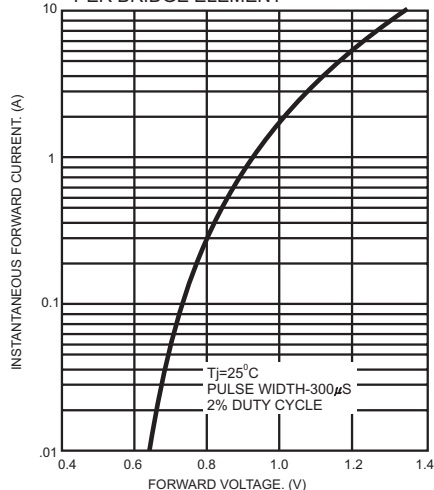


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

