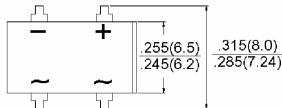
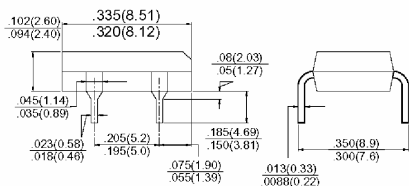
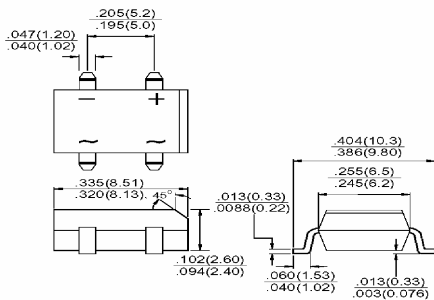


TSC 	DBL201G THRU DBL209G Single Phase 2.0 AMPS. Glass Passivated Bridge Rectifiers																																																																																																																																					
	Voltage Range 50 to 1400 Volts Current 2.0 Amperes																																																																																																																																					
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 ✧ Leads solderable per MIL-STD-202 Method 208	DBL   DBLS  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>DBL 201G DBLS 201G</th><th>DBL 202G DBLS 202G</th><th>DBL 203G DBLS 203G</th><th>DBL 204G DBLS 204G</th><th>DBL 205G DBLS 205G</th><th>DBL 206G DBLS 206G</th><th>DBL 207G DBLS 207G</th><th>DBL 208G DBLS 208G</th><th>DBL 209G DBLS 209G</th><th>Units</th></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>1200</td><td>1400</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>840</td><td>980</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>1200</td><td>1400</td><td>V</td></tr><tr><td>Maximum Average Forward Rectified Current @T_A = 40°C</td><td>I_(AV)</td><td colspan="9">2.0</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="9">50</td><td>A</td></tr><tr><td>Maximum Instantaneous Forward Voltage @ 2.0A</td><td>V_F</td><td colspan="7">1.15</td><td colspan="2">1.30</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="9">10 500</td><td>uA uA</td></tr><tr><td>Typical Thermal Resistance (Note)</td><td>RθJA RθJL</td><td colspan="9">40 15</td><td>°C/w</td></tr><tr><td>Operating Temperature Range</td><td>T_J</td><td colspan="9">-55 to +150</td><td>°C</td></tr><tr><td>Storage Temperature Range</td><td>T_{STG}</td><td colspan="9">-55 to +150</td><td>°C</td></tr></table>			Type Number	Symbol	DBL 201G DBLS 201G	DBL 202G DBLS 202G	DBL 203G DBLS 203G	DBL 204G DBLS 204G	DBL 205G DBLS 205G	DBL 206G DBLS 206G	DBL 207G DBLS 207G	DBL 208G DBLS 208G	DBL 209G DBLS 209G	Units	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°C	I _(AV)	2.0									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 @ 2.0A	V _F	1.15							1.30		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)	RθJA RθJL	40 15									°C/w	Operating Temperature Range	T _J	-55 to +150									°C	Storage Temperature Range	T _{STG}	-55 to +150									°C
Type Number	Symbol	DBL 201G DBLS 201G	DBL 202G DBLS 202G	DBL 203G DBLS 203G	DBL 204G DBLS 204G	DBL 205G DBLS 205G	DBL 206G DBLS 206G	DBL 207G DBLS 207G	DBL 208G DBLS 208G	DBL 209G DBLS 209G	Units																																																																																																																											
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Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.51 x 0.51" (13 x 13mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (DBL201G THRU DBL209G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

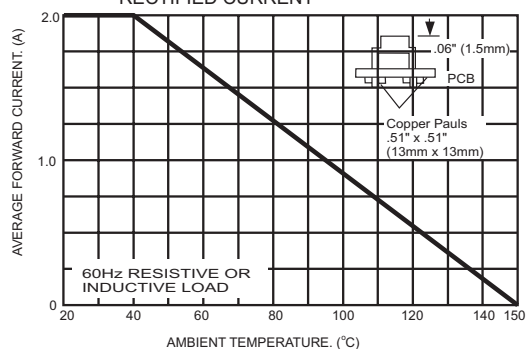


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

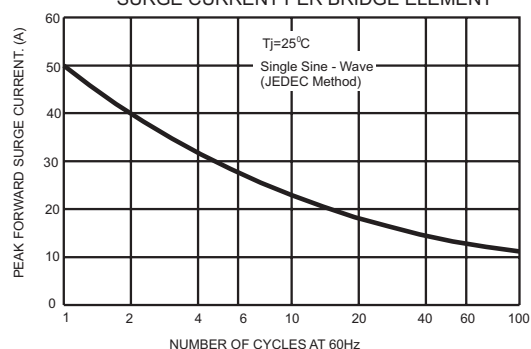


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

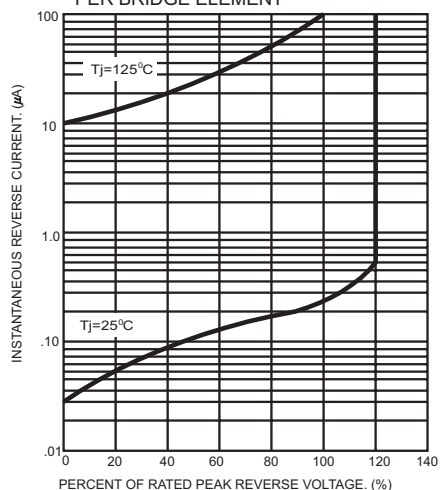


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

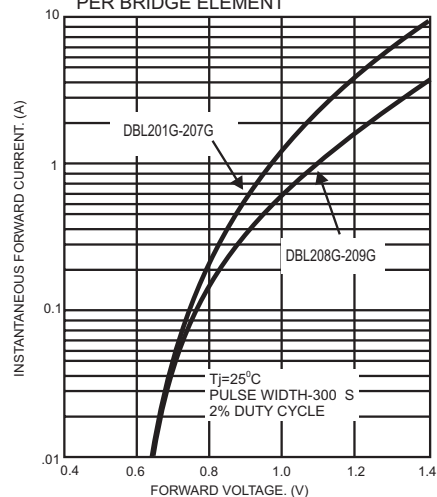


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

