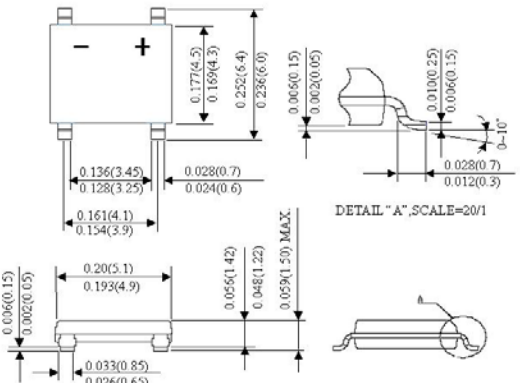


TSC 	ABS2 THRU ABS10 Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers																																																																																									
	Voltage Range 200 to 1000 Volts Current 1.0 Ampere																																																																																									
Features ✧ Glass passivated junction ✧ Ideal for printed circuit board ✧ Reliable low cost construction utilizing molded plastic technique ✧ High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension ✧ Small size, simple installation Leads solderable per MIL-STD-202, Method 208 ✧ High surge current capability	Thin Mini-Dip  DETAIL "A", SCALE=20/1 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>ABS2</th><th>ABS4</th><th>ABS6</th><th>ABS8</th><th>ABS10</th><th>Units</th></tr><tr><td>Maximum Recurrent Peak Reverse Voltage</td><td>V_{RRM}</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>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>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 On glass-epoxy P.C.B. On aluminum substrate</td><td>$I_{(AV)}$</td><td colspan="5">0.8 1.0</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="5">30</td><td>A</td></tr><tr><td>Maximum Instantaneous Forward Voltage @ 0.4A</td><td>V_F</td><td colspan="5">0.95</td><td>V</td></tr><tr><td>Maximum DC Reverse Current @ $T_A=25^{\circ}\text{C}$ at Rated DC Blocking Voltage</td><td>I_R</td><td colspan="5">10</td><td>μA μA</td></tr><tr><td>Typical Thermal resistance Junction to Lead On aluminum substrate On Glass-Epoxy substrate</td><td>$R_{\theta JL}$ $R_{\theta JA}$</td><td colspan="5">25 62.5 80</td><td>$^{\circ}\text{C/W}$</td></tr><tr><td>Operating Temperature Range</td><td>T_J</td><td colspan="5">-55 to +150</td><td>$^{\circ}\text{C}$</td></tr><tr><td>Storage Temperature Range</td><td>T_{STG}</td><td colspan="5">-55 to +150</td><td>$^{\circ}\text{C}$</td></tr></table>			Type Number	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Units	Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V	Maximum RMS Voltage	V_{RMS}	140	280	420	560	700	V	Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V	Maximum Average Forward Rectified Current On glass-epoxy P.C.B. On aluminum substrate	$I_{(AV)}$	0.8 1.0					A	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30					A	Maximum Instantaneous Forward Voltage @ 0.4A	V_F	0.95					V	Maximum DC Reverse Current @ $T_A=25^{\circ}\text{C}$ at Rated DC Blocking Voltage	I_R	10					μA μA	Typical Thermal resistance Junction to Lead On aluminum substrate On Glass-Epoxy substrate	$R_{\theta JL}$ $R_{\theta JA}$	25 62.5 80					$^{\circ}\text{C/W}$	Operating Temperature Range	T_J	-55 to +150					$^{\circ}\text{C}$	Storage Temperature Range	T_{STG}	-55 to +150					$^{\circ}\text{C}$
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RATINGS AND CHARACTERISTIC CURVES (ABS2 THRU ABS10)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

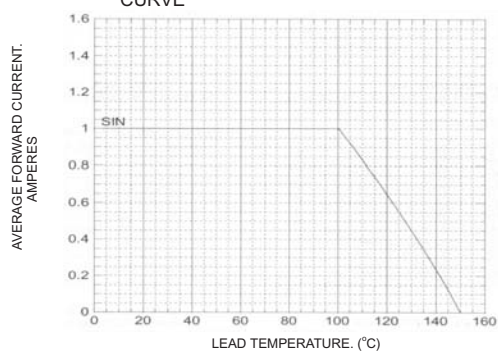


FIG.2- TYPICAL FORWARD CHARACTERISTICS

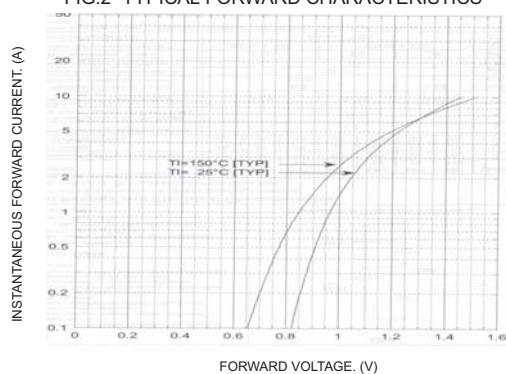


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

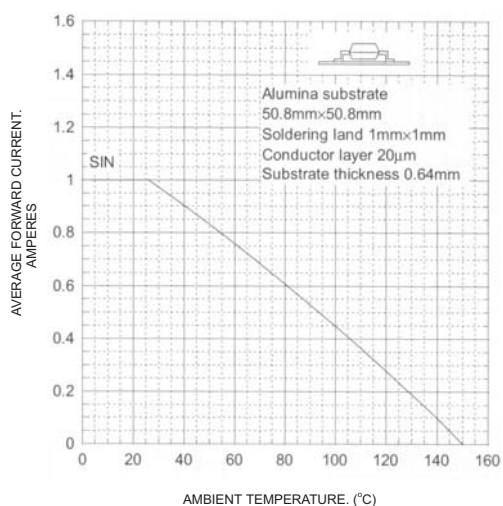


FIG.4- FORWARD POWER DISSIPATION

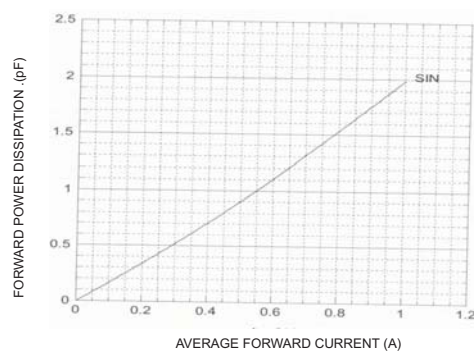


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

