

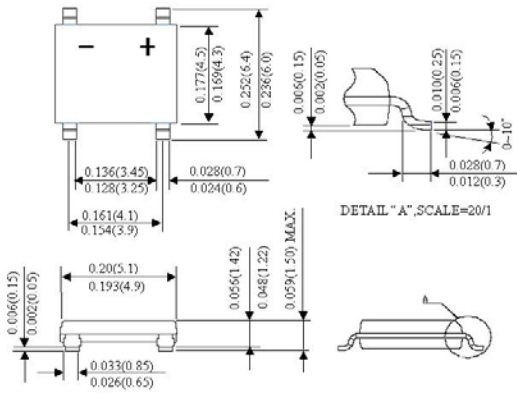


<div>TSC</div> <div></div>	<div>ABS2 THRU ABS10</div> <div>Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers</div>																																																																																									
<div></div>	<div>Voltage Range 200 to 1000 Volts Current 1.0 Ampere</div>																																																																																									
<div>Features</div> <div><div><div>✧ Glass passivated junction</div><div>✧ Ideal for printed circuit board</div><div>✧ Reliable low cost construction utilizing molded plastic technique</div><div>✧ High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" ( 9.5mm ) lead length at 5 lbs., ( 2.3 kg ) tension</div><div>✧ Small size, simple installation Leads solderable per MIL-STD-202, Method 208</div><div>✧ High surge current capability</div></div></div>	<div>Thin Mini-Dip</div> <div></div> <div>Dimensions in inches and (millimeters)</div>																																																																																									
<div>Maximum Ratings and Electrical Characteristics</div> <div>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%</div> <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><math>V_{RRM}</math></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><math>V_{RMS}</math></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><math>V_{DC}</math></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><math>I_{(AV)}</math></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><math>I_{FSM}</math></td><td colspan="5">30</td><td>A</td></tr><tr><td>Maximum Instantaneous Forward Voltage @ 0.4A</td><td><math>V_F</math></td><td colspan="5">0.95</td><td>V</td></tr><tr><td>Maximum DC Reverse Current @ <math>T_A=25^{\circ}\text{C}</math> at Rated DC Blocking Voltage</td><td><math>I_R</math></td><td colspan="5">10</td><td>uA uA</td></tr><tr><td>Typical Thermal resistance Junction to Lead On aluminum substrate On Glass-Epoxy substrate</td><td><math>R_{\theta JL}</math> <math>R_{\theta JA}</math></td><td colspan="5">25 62.5 80</td><td>°C/W</td></tr><tr><td>Operating Temperature Range</td><td><math>T_J</math></td><td colspan="5">-55 to +150</td><td>°C</td></tr><tr><td>Storage Temperature Range</td><td><math>T_{STG}</math></td><td colspan="5">-55 to +150</td><td>°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					uA uA	Typical Thermal resistance Junction to Lead On aluminum substrate On Glass-Epoxy substrate	$R_{\theta JL}$ $R_{\theta JA}$	25 62.5 80					°C/W	Operating Temperature Range	$T_J$	-55 to +150					°C	Storage Temperature Range	$T_{STG}$	-55 to +150					°C
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## RATINGS AND CHARACTERISTIC CURVES (ABS2 THRU ABS10)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

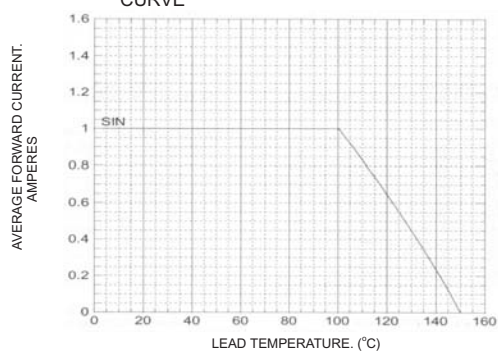


FIG.2- TYPICAL FORWARD CHARACTERISTICS

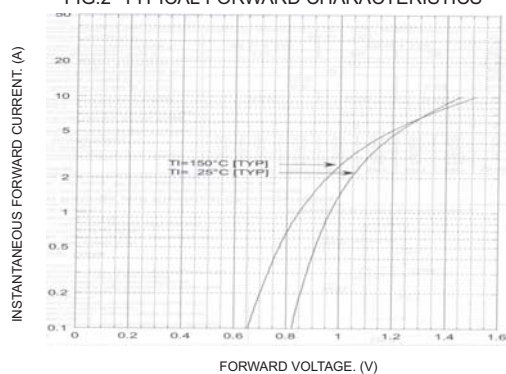


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

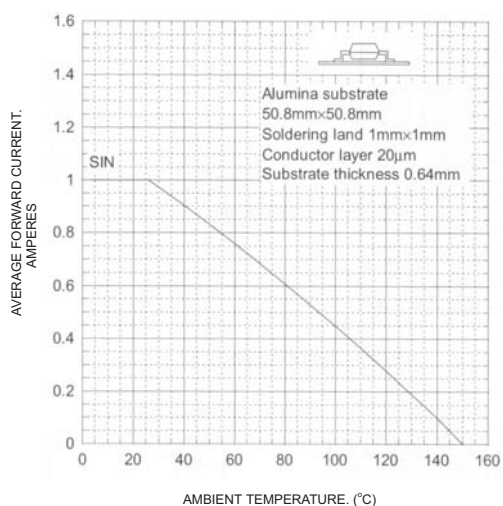


FIG.4- FORWARD POWER DISSIPATION

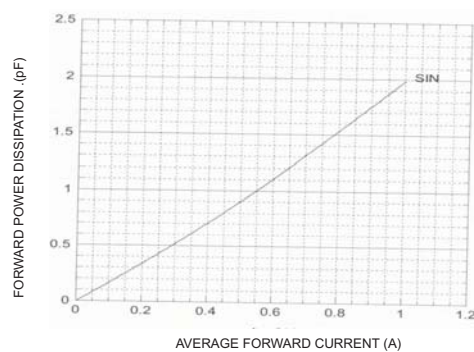


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

