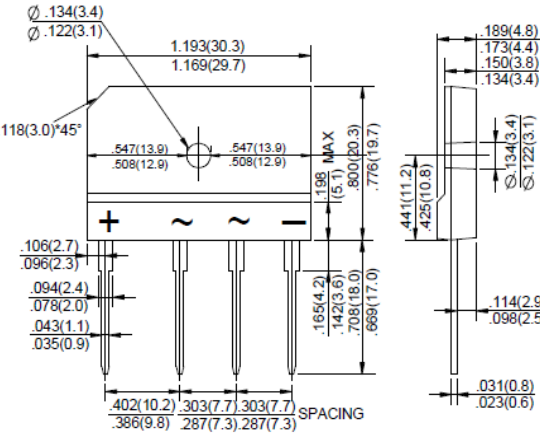


GLASS PASSIVATED BRIDGE RECTIFIERS	REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 35.0 Amperes																																																																																																																									
<p>FEATURES</p> <ul style="list-style-type: none"> • Rating to 1000V PRV • Ideal for printed circuit board • Low forward voltage drop,high current capability • Reliable low cost construction utilizing molded plastic technique results in inexpensive product • The plastic material has UL flammability classification 94V-0 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Polarity: As marked on Body • Mounting position: Any 	<p style="text-align: center;">GBJ</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>																																																																																																																									
<p>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%</p>																																																																																																																										
<table border="1"> <thead> <tr> <th>Characteristics</th> <th>Symbol</th> <th>GBJ 35005</th> <th>GBJ 3501</th> <th>GBJ 3502</th> <th>GBJ 3504</th> <th>GBJ 3506</th> <th>GBJ 3508</th> <th>GBJ 3510</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>Maximum Repetitive 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>RMS Reverse 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 (with heatsink Note2) Rectified Current @TC=100°C (without heatsink)</td> <td>$I_{(AV)}$</td> <td colspan="7">35 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">400</td> <td>A</td> </tr> <tr> <td>Maximum Forward Voltage at 17.5A DC</td> <td>V_F</td> <td colspan="7">1.1</td> <td>V</td> </tr> <tr> <td>Maximum DC Reverse Current @T_J=25°C at Rated DC Blocking Voltage @T_J=125°C</td> <td>I_R</td> <td colspan="7">10 500</td> <td>μA</td> </tr> <tr> <td>I²t Rating for Fusing (t<8.3ms)</td> <td>I²t</td> <td colspan="7">510</td> <td>A²s</td> </tr> <tr> <td>Typical Junction Capacitance Per Element (Note1)</td> <td>C_J</td> <td colspan="7">85</td> <td>pF</td> </tr> <tr> <td>Typical Thermal Resistance (Note2)</td> <td>$R_{θJC}$</td> <td colspan="7">0.6</td> <td>°C/W</td> </tr> <tr> <td>Junction and Storage Temperature Range</td> <td>T_J, T_{STG}</td> <td colspan="7">-55 to +150</td> <td>°C</td> </tr> </tbody> </table>	Characteristics	Symbol	GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	Unit	Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	RMS Reverse 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 (with heatsink Note2) Rectified Current @TC=100°C (without heatsink)	$I_{(AV)}$	35 5							A	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	400							A	Maximum Forward Voltage at 17.5A DC	V_F	1.1							V	Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =125°C	I_R	10 500							μA	I ² t Rating for Fusing (t<8.3ms)	I ² t	510							A ² s	Typical Junction Capacitance Per Element (Note1)	C_J	85							pF	Typical Thermal Resistance (Note2)	$R_{θJC}$	0.6							°C/W	Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C	<p>NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC. 2.Device mounted on 300mm*300mm*1.6mm cu plate heatsink.</p>	
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Rating and Characteristic Curves

