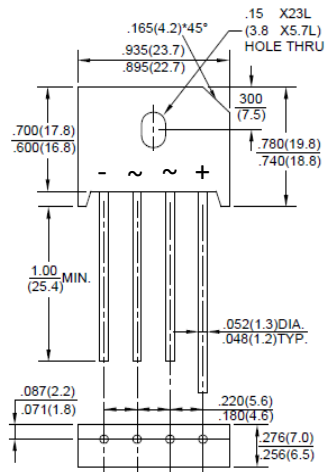


SILICON BRIDGE RECTIFIERS	REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 35 Amperes																																																																																																									
<p>FEATURES</p> <ul style="list-style-type: none"> • Surge overload rating 400 amperes peak • Ideal for printed circuit board • Reliable low cost construction utilizing molded plastic technique • 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;">KBU</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>																																																																																																									
<p>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</p> <p>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>																																																																																																										
Characteristics	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 10%;">Symbol</th> <th style="width: 10%;">KBU 35005</th> <th style="width: 10%;">KBU 3501</th> <th style="width: 10%;">KBU 3502</th> <th style="width: 10%;">KBU 3504</th> <th style="width: 10%;">KBU 3506</th> <th style="width: 10%;">KBU 3508</th> <th style="width: 10%;">KBU 3510</th> <th style="width: 10%;">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 Note 1)</td> <td rowspan="2">I_{AV}</td> <td colspan="7">35</td> <td rowspan="2">A</td> </tr> <tr> <td>Rectified Current @TC=100°C (without heatsink)</td> <td colspan="7">4.2</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</td> <td rowspan="2">I_R</td> <td colspan="7">10</td> <td rowspan="2">μA</td> </tr> <tr> <td>at Rated DC Blocking Voltage @T_J=125°C</td> <td colspan="7">500</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>	Symbol	KBU 35005	KBU 3501	KBU 3502	KBU 3504	KBU 3506	KBU 3508	KBU 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 Note 1)	I_{AV}	35							A	Rectified Current @TC=100°C (without heatsink)	4.2							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	I_R	10							μA	at Rated DC Blocking Voltage @T _J =125°C	500							Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C
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<p>NOTES: 1. Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.</p>																																																																																																										

Rating and Characteristic Curves

FIG.1-MAXIMUM FORWARD SURGE CURRENT

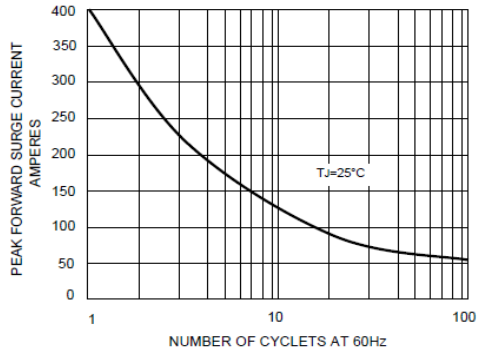


FIG. 2 - DERATING CURVE OUTPUT RECTIFIED CURRENT

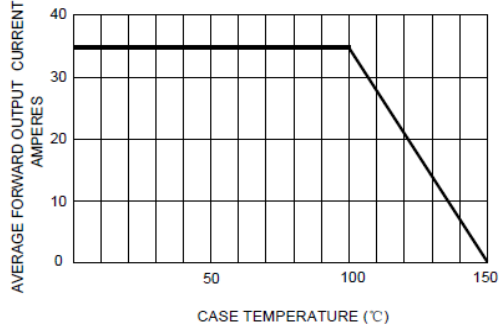


FIG.3- TYPICAL FORWARD CHARACTERISTICS

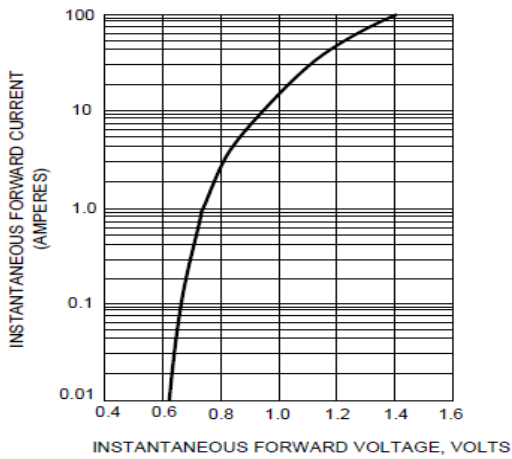


FIG.4- TYPICAL REVERSE CHARACTERISTICS

