

SILICON BRIDGE RECTIFIERS	REVERSE VOLTAGE FORWARD CURRENT	- 50 to 1000Volts - 6.0 Amperes																																																																																								
<b>FEATURES</b> <ul style="list-style-type: none"> <li>Surge overload rating - 150 amperes peak</li> <li>Low forward voltage drop</li> <li>Small size; simple installation</li> <li>Silver plated copper leads</li> <li>Mounting position: Any</li> </ul>		<b>KBPC6/BR6</b> Polarity shown on side of case, Positive lead by beveled corner. Dimensions in inches and (millimeters)																																																																																								
<b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b> <p>Rating 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>BR605</th> <th>BR61</th> <th>BR62</th> <th>BR64</th> <th>BR66</th> <th>BR68</th> <th>BR610</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td>Maximum Recurrent Peak Reverse Voltage</td> <td>V<sub>RRM</sub></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 RMS Bridge Input Voltage</td> <td>V<sub>RMS</sub></td> <td>30</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 Average Forward T<sub>c</sub>=100°C (Note1) Rectified Output Current at T<sub>A</sub>=50°C (Note2)</td> <td>I<sub>(AV)</sub></td> <td colspan="6">6.0</td> <td>3.0</td> <td>A</td> </tr> <tr> <td>Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load</td> <td>I<sub>FSM</sub></td> <td colspan="6">150</td> <td></td> <td>A</td> </tr> <tr> <td>Maximum Forward Voltage Drop Per Bridge Element at 3.0A Peak</td> <td>V<sub>F</sub></td> <td colspan="6">1.0</td> <td></td> <td>V</td> </tr> <tr> <td>Maximum Reverse Current at Rated T<sub>A</sub>=25°C DC Blocking Voltage Per Element T<sub>A</sub>=100°C</td> <td>I<sub>R</sub></td> <td colspan="6">10.0</td> <td>1.0</td> <td>uA mA</td> </tr> <tr> <td>Operating Temperature Range</td> <td>T<sub>J</sub></td> <td colspan="6">-40 to +125</td> <td></td> <td>°C</td> </tr> <tr> <td>Storage Temperature Range</td> <td>T<sub>STG</sub></td> <td colspan="6">-40 to +125</td> <td></td> <td>°C</td> </tr> </tbody> </table> <p>Notes: 1. Unit mounted on metal chassis            2. Unit mounted on P.C. board</p>	CHARACTERISTICS	SYMBOL	BR605	BR61	BR62	BR64	BR66	BR68	BR610	UNIT	Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V	Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	30	70	140	280	420	560	700	V	Maximum Average Forward T <sub>c</sub> =100°C (Note1) Rectified Output Current at T <sub>A</sub> =50°C (Note2)	I <sub>(AV)</sub>	6.0						3.0	A	Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	150							A	Maximum Forward Voltage Drop Per Bridge Element at 3.0A Peak	V <sub>F</sub>	1.0							V	Maximum Reverse Current at Rated T <sub>A</sub> =25°C DC Blocking Voltage Per Element T <sub>A</sub> =100°C	I <sub>R</sub>	10.0						1.0	uA mA	Operating Temperature Range	T <sub>J</sub>	-40 to +125							°C	Storage Temperature Range	T <sub>STG</sub>	-40 to +125							°C
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RATING AND CHARACTERISTIC CURVES

