KBPC6/BR6 SERIES

SINGLE PHASE 6.0 AMPS, SILICON BRIDGE RECTIFIERS

Features
UL Recognized File # E-230084
High surge current capability
Low forward voltage drop
High temperature soldering guaranteed:
250° C/10 seconds/375° F (9.5mm)
lead lengths at 5 lbs. (.23kg) tension
Small size, simple installation
Leads solderable per MIL-STD-202,
Method 208

Voltage Range
50 to 1000 VOLTS
Current
6.0 Amperes

KBPC6/BR6

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
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%

<table>
<thead>
<tr>
<th>Type Number</th>
<th>BR6005</th>
<th>BR6010</th>
<th>BR6015</th>
<th>BR6020</th>
<th>BR6025</th>
<th>BR6030</th>
<th>BR6035</th>
<th>BR6040</th>
<th>BR6045</th>
<th>BR6050</th>
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<th>BR6065</th>
<th>BR6070</th>
<th>BR6075</th>
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<tbody>
<tr>
<td>Maximum Repetitive Peak Reverse Voltage</td>
<td>V&lt;sub&gt;PRM&lt;/sub&gt;</td>
<td>50</td>
<td>100</td>
<td>200</td>
<td>400</td>
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<tr>
<td>Maximum RMS Voltage</td>
<td>V&lt;sub&gt;RMS&lt;/sub&gt;</td>
<td>35</td>
<td>70</td>
<td>140</td>
<td>280</td>
<td>420</td>
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<td>Maximum DC Blocking Voltage</td>
<td>V&lt;sub&gt;D&lt;/sub&gt;</td>
<td>50</td>
<td>100</td>
<td>200</td>
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<td>Maximum Average Forward Rectified Current @Ta = 50°C</td>
<td>I&lt;sub&gt;F AVG&lt;/sub&gt;</td>
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<td>Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)</td>
<td>I&lt;sub&gt;FSM&lt;/sub&gt;</td>
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<td>Maximum Instantaneous Forward Voltage Drop Per Leg @6.0A</td>
<td>V&lt;sub&gt;F&lt;/sub&gt;</td>
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<td>Maximum DC Reverse Current @Ta = 25°C, at Rated DC Blocking Voltage @Ta = 100°C</td>
<td>I&lt;sub&gt;R&lt;/sub&gt;</td>
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<td>Operating Temperature Range</td>
<td>T&lt;sub&gt;J&lt;/sub&gt;</td>
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<td>Storage Temperature Range</td>
<td>T&lt;sub&gt;SOT&lt;/sub&gt;</td>
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RATING AND CHARACTERISTIC CURVES
KBPC6/BR6 SERIES

FIG. 1: MAXIMUM NON-REPEETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

FIG. 2: MAXIMUM FORWARD CURRENT DERATING CURVE

FIG. 3: TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

FIG. 4: TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

Note: Specification is subject to change without further notice. For more details and updates, please visit our website.