BR10 THRU BR1010

10A SINGLE-PHASE SILICON BRIDGE RECTIFIERS

Features

- Surge overload rating-200 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Silver Plated Copper leads
- Mounting Position: Any
- Ceramic case

Absolute Maximum Ratings and Characteristics
Rating at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

<table>
<thead>
<tr>
<th></th>
<th>BR1005</th>
<th>BR101</th>
<th>BR102</th>
<th>BR104</th>
<th>BR106</th>
<th>BR108</th>
<th>BR1010</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Maximum Recurrent Peak Reverse Voltage</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>
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<tr>
<td>Maximum RMS Voltage</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>
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<tr>
<td>Maximum Average Forward Rectified Output Current at TA =50°C**</td>
<td>10</td>
<td>6</td>
<td>6</td>
<td></td>
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<td>A</td>
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<tr>
<td>Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load</td>
<td>200</td>
<td></td>
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<tr>
<td>Maximum Forward Voltage Drop per element at 5A Peak</td>
<td>1.1</td>
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<td>V</td>
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<tr>
<td>Maximum Reverse Current at Rated DC Blocking Voltage per element</td>
<td>10</td>
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<tr>
<td>Operating Temperature Range Tc</td>
<td>-55 to +125</td>
<td></td>
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<td></td>
<td>°C</td>
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<tr>
<td>Storage Temperature Range TA</td>
<td>-55 to +125</td>
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<td></td>
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<td>°C</td>
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</tbody>
</table>

Notes:

* Unit mounted on metal chassis
** Unit mounted on P.C. board
RATINGS AND CHARACTERISTIC CURVES (BR10 SERIES)

**FIG.1-MAXIMUM FORWARD SURGE CURRENT**

- PEAK FORWARD SURGE CURRENT (AMPERES)
- NUMBER OF CYCLES AT 60 Hz

**FIG.2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**

- AVERAGE FORWARD OUTPUT CURRENT (AMPERES)
- TEMPERATURE (°C)

**FIG.3-TYPICAL FORWARD CHARACTERISTICS**

- INSTANTANEOUS FORWARD CURRENT (AMPERES)
- INSTANTANEOUS FORWARD VOLTAGE, VOLTS

**FIG.4-TYPICAL REVERSE CHARACTERISTICS**

- INSTANTANEOUS REVERSE CURRENT, MICROAMPERES
- PERCENT OF RATED PEAK REVERSE VOLTAGE