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>
</tr>
</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>
</tr>
<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>
</tr>
</tbody>
</table>
| Maximum Average Forward Rectified Output Current at
  $T_C = 50°C$          | 10     |       |       |       |       |       |        | A     |
  $T_C = 100°C^*$       | 6      |       |       |       |       |       |        | A     |
  $T_A = 50°C^{**}$     | 6      |       |       |       |       |       |        | A     |
| Peak Forward Surge Current, 8.3ms single
  half sine-wave superimposed on rated load |         | 200   |       |       |       |       |        | A     |
| Maximum Forward Voltage Drop per element
  at 5A Peak            | 1.1    |       |       |       |       |       |        | V     |
| Maximum Reverse Current at Rated
  DC Blocking Voltage per element
  $T_A = 25°C$          | 10     |       |       |       |       |       |        | uA    |
  $T_A = 100°C$         | 1      |       |       |       |       |       |        | mA    |
| Operating Temperature Range $T_C$ | -55 to +125 |       |       |       |       |       |        | °C    |
| Storage Temperature Range $T_A$   | -55 to +125 |       |       |       |       |       |        | °C    |

Notes:

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

FIG.1-MAXIMUM FORWARD SURGE CURRENT

FIG.2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

FIG.3-TYPICAL FORWARD CHARACTERISTICS

FIG.4-TYPICAL REVERSE CHARACTERISTICS

INSTANIMATEOUS FORWARD VOLTAGE, VOLTS

PERCENT OF RATED PEAK REVERSE VOLTAGE

SEGTECH ELECTRONICS LTD.
(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

Dated: 11/11/2002