GBP2005 THRU GBP210

SINGLE PHASE 2.0AMPS.
GLASS PASSIVATED BRIDGE
RECTIFIERS

Voltage Range
50 to 1000 Volts
Current
2.0 Amperes

Features
- Surge overload rating - 50 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory
  Flammability Classification 94V-0
- Mounting Position: Any

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>GBP 2005</th>
<th>GBP 201</th>
<th>GBP 202</th>
<th>GBP 204</th>
<th>GBP 206</th>
<th>GBP 208</th>
<th>GBP 210</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Repetitive Peak Reverse Voltage V&lt;sub&gt;RRM&lt;/sub&gt;</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 V&lt;sub&gt;SM&lt;/sub&gt;</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 DC Blocking Voltage V&lt;sub&gt;DC&lt;/sub&gt;</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 Rectified Current @TA = 50°C I&lt;sub&gt;AV&lt;/sub&gt;</td>
<td>2.0</td>
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<td>A</td>
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<tr>
<td>Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load I&lt;sub&gt;FSM&lt;/sub&gt;</td>
<td>50.0</td>
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<td></td>
<td>A</td>
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<tr>
<td>Maximum Instantaneous Forward Voltage Drop Per Leg @2.0A V&lt;sub&gt;F&lt;/sub&gt;</td>
<td>1.1</td>
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<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Maximum Reverse Current at Rated DC Blocking Voltage per LegTA=150°C I&lt;sub&gt;R&lt;/sub&gt;</td>
<td>1.0</td>
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<td></td>
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<td></td>
<td>mA</td>
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<td>Operating Temperature Range T&lt;sub&gt;J&lt;/sub&gt;</td>
<td>-55 to +150</td>
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<td>°C</td>
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<tr>
<td>Storage Temperature Range T&lt;sub&gt;STG&lt;/sub&gt;</td>
<td>-55 to +150</td>
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<td></td>
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<td>°C</td>
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</table>
RATING AND CHARACTERISTIC CURVES
GBP2005 THRU GBP210

FIG. 1 - FORWARD CURRENT DERATING CURVE

FIG. 2 - MAXIMUM NON-REPETITIVE

FIG. 3 - TYPICAL JUNCTION CAPACITANCE

FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

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