Bridge Rectifier

Features:
- In-line glass passivated single phase rectifier bridge
- Surge overload rating: 60 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing moulded plastic technique

Mechanical Data:
- Terminals: Lead solderable per MIL-STD-202, Method 208
- Mounting position: Any
- Weight: 0.06oz, 1.7g

Maximum Ratings and Electrical Characteristics:
Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>2KBP02M</th>
<th>2KBP08M</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum recurrent peak reverse voltage</td>
<td>200</td>
<td>800</td>
<td>V</td>
</tr>
<tr>
<td>Maximum RMS bridge input voltage</td>
<td>140</td>
<td>560</td>
<td>V</td>
</tr>
<tr>
<td>Maximum DC blocking voltage</td>
<td>200</td>
<td>800</td>
<td>V</td>
</tr>
<tr>
<td>Maximum average rectified output current at 25°C ambient</td>
<td>2</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Peak one cycle surge overload current</td>
<td>60</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Maximum forward voltage drop per bridge element at 3.14A DC</td>
<td>1.1</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Maximum (Total bridge) reverse leakage at rated DC blocking voltage</td>
<td>5</td>
<td></td>
<td>mA</td>
</tr>
<tr>
<td>Maximum (Total bridge) reverse leakage at rated DC blocking voltage and 100°C</td>
<td>0.5</td>
<td></td>
<td>mA</td>
</tr>
<tr>
<td>I^2t Rating for fusing (t &lt;8.35ms)</td>
<td>15</td>
<td></td>
<td>A^2 Seconds</td>
</tr>
<tr>
<td>Typical junction capacitance per leg (Note 1) CJ</td>
<td>25</td>
<td></td>
<td>pF</td>
</tr>
<tr>
<td>Typical thermal resistance per leg (Note 2) RθJA</td>
<td>30</td>
<td></td>
<td>°C/W</td>
</tr>
<tr>
<td>Typical thermal resistance per leg (Note 2) RθJL</td>
<td>11</td>
<td></td>
<td>°C/W</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-55 to +125</td>
<td></td>
<td>°C</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>-55 to +150</td>
<td></td>
<td>°C</td>
</tr>
</tbody>
</table>

Notes:
1. Measured at 1MHz and applied reverse voltage of 4V.
2. Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.47" × 0.47" (12mm × 12mm) copper pads.
Bridge Rectifier

Rating and Characteristics Curves

Figure 1 - Derating Curve for Output Rectified Current

Figure 2 - Typical Forward Characteristics (25°C)

Figure 3 - Typical Reverse Characteristics

Figure 4 - Non-Recurrent Surge Rating

1. Pulse Test: Pulse Width = 300μs, Duty Cycle ≤2%.
**Bridge Rectifier**

**Description**

- **Maximum Input Voltage (V AC)**
  - 200
  - 800

- **Id at Ifsm = 60A**
  - 140
  - 560

- **Pin Spacing (A)**
  - 2
  - 2

- **Current Rating (A)**
  - 60

- **Body**
  - Height: 12.7
  - Width: 15.24
  - Depth: 5.08

- **Part Number**
  - 2KBP02M
  - 2KBP08M

**Dimensions**

- **Inches (Millimetres)**
  - Width: 5.08
  - Depth: 2.16

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