**Short Form Data Sheet**

**Part number scheme**

**PS KJ 200 N 16 KNX**

1) Power Semiconductors initials  
2) Circuit designation  
3) Series number  
4) Designates standard recovery time  
5) Voltage Multiplier (example: 16 x 100 = 1600)  
6) Proprietary suffix

**Features:**

- All diffused silicone.  
- Thick copper base plate.  
- Isolated cooling, rated up to 3500 V<sub>rms</sub>  
- Heat sink grounded.

**Voltage**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Rating</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Repetitive Reverse Voltage</td>
<td>V&lt;sub&gt;RM&lt;/sub&gt;</td>
<td>1200 ~ 1800</td>
<td>Volts</td>
</tr>
<tr>
<td>Maximum non repetitive Surge of Reverse Voltage</td>
<td>V&lt;sub&gt;RM&lt;/sub&gt; + 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Non Repetitive Forward Voltage</td>
<td>V&lt;sub&gt;FM&lt;/sub&gt; @ I&lt;sub&gt;fm&lt;/sub&gt;</td>
<td>1.4 @ 500</td>
<td>V @ A</td>
</tr>
</tbody>
</table>

**Amperage**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Rating</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum, Average Current</td>
<td>I&lt;sub&gt;(Ave)&lt;/sub&gt;</td>
<td>200</td>
<td>Amperes</td>
</tr>
<tr>
<td>Maximum, RMS Current</td>
<td>I&lt;sub&gt;(RMS)&lt;/sub&gt;</td>
<td>314</td>
<td>Amperes</td>
</tr>
<tr>
<td>Maximum non repetitive Surge Current with no reverse voltage reapplied</td>
<td></td>
<td>I&lt;sub&gt;FM&lt;/sub&gt; 0%V&lt;sub&gt;RM&lt;/sub&gt;</td>
<td>4</td>
</tr>
<tr>
<td>I&lt;sub&gt;TM&lt;/sub&gt; = Maximum threshold, Repetitive, Reverse, Current</td>
<td></td>
<td>I&lt;sub&gt;RR&lt;/sub&gt;</td>
<td>3 ~ 7</td>
</tr>
<tr>
<td>Fuse’s absolute maximum I&lt;sub&gt;T&lt;/sub&gt; with no reverse voltage reapplied</td>
<td></td>
<td></td>
<td>5.8</td>
</tr>
<tr>
<td>Fuse’s absolute maximum I&lt;sub&gt;T&lt;/sub&gt; with 100% reverse voltage reapplied</td>
<td></td>
<td></td>
<td>4.1</td>
</tr>
</tbody>
</table>

**Thermal & Weight**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Rating</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>T&lt;sub&gt;j&lt;/sub&gt;</td>
<td>-40° ~ 180°</td>
<td>°Celsius</td>
</tr>
<tr>
<td>Maximum Thermal resistance, Junction to Case</td>
<td>R&lt;sub&gt;th,J&lt;/sub&gt;</td>
<td>0.15</td>
<td>°C/W</td>
</tr>
<tr>
<td>Maximum Thermal resistance, Case to Heat Sink</td>
<td>R&lt;sub&gt;th,C-HS&lt;/sub&gt;</td>
<td>0.1</td>
<td>°C/W</td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td>380</td>
<td>Grams</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14.4</td>
<td>oz.</td>
</tr>
</tbody>
</table>

**Notes:**

1) Mounting surfaces flat and greased  
2) 180° conduction, 60Hz sine wave.

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**Specifying voltage:**

1200V, PSKJ200N12  
1600V, PSKJ200N16

Above 1800V inquire for availability.

**Features:**

- For DC applications derate V<sub>RMM</sub> 45%.  
- V<sub>RMM</sub> has typical IDR, I<sub>RR</sub> of 2~7mA.  
- V<sub>RMM</sub> have I<sub>RRM</sub> of up to 20mA.

**Features:**

- Measured at the peak of the sine wave,  
- Below 0°C derate V<sub>RMM</sub> 10%.  
- For DC applications derate V<sub>RMM</sub> 45%

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