The 6489 is a subminiature single diode.

**PHYSICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>5 lead subminiature (B5B)</td>
</tr>
<tr>
<td>Bulb</td>
<td>Glass</td>
</tr>
<tr>
<td>Maximum bulb length</td>
<td>1.12&quot; (28.5 mm.)</td>
</tr>
<tr>
<td>Maximum bulb diameter</td>
<td>7/32&quot; (5.4 mm.)</td>
</tr>
<tr>
<td>Minimum lead length</td>
<td>1-1/8&quot; (31.7 mm.)</td>
</tr>
<tr>
<td>Mounting position</td>
<td>Any</td>
</tr>
</tbody>
</table>

**BASING DIAGRAM**

![Basing Diagram]

**BASING CONNECTIONS**

Lead No. 1 Heater  
No. 2 Plate  
No. 3 Cathode  
No. 4 Heater  
No. 5 Plate

**GENERAL ELECTRICAL DATA**

- Heater voltage: 6.3 volts  
- Heater current: 0.15 amps

**ELECTRODE CAPACITANCES** (Measured with an external shield)

- Plate to all: 4.0 uF  
- Cathode to all: 4.0 uF

**CHARACTERISTICS**

D.C. voltage drop (Plate current= 18 mamp) 3.1 volts

**LIMITING VALUES** (Absolute)

- Plate peak inverse voltage: 460 volts  
- Plate current: 10 mamps  
- Peak plate current: 60 mamps  
- Heater to cathode voltage: 360 volts

* Heater negative

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