The 2B22 is a high-perveance diode of the disk-seal type. It is used as a detector or monitor at frequencies up to 1500 megacycles.

**GENERAL CHARACTERISTICS**

Number of Electrodes  
2

**Electrical**

Cathode - Indirectly Heated  
Heater Voltage  
6.3 Volts  
Heater Current  
0.75 Amperes

Average Characteristics  
Plate Voltage, \( I_b = 20 \text{ ma} \)  
6.0 Volts

Direct Interelectrode Capacitance  
Cathode-plate  
2.20 Micromicrofarads

**Mechanical**

Type of Cooling - Convection  
Maximum Seal Temperature  
200 °C  
Base Description  
6-pin Octal  
Mounting Position  
Any  
Net Weight, approximate  
3 Ounces  
Shipping Weight, approximate  
3 Pounds

**MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS**

**Detector**

<table>
<thead>
<tr>
<th>Typical Operation</th>
<th>Maximum Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>10C *Volts</td>
<td>100 *Volts</td>
</tr>
<tr>
<td>0.7 *Amperes</td>
<td>300 Volts</td>
</tr>
<tr>
<td>20 Milliamperes</td>
<td>150 Volts d-c</td>
</tr>
<tr>
<td>Ohms</td>
<td></td>
</tr>
</tbody>
</table>

* Tube shall not operate more than 5 microseconds in a 100-microsecond interval.
NOTE 1
GLASS WILL NOT PROTRUDE BEYOND EDGE OF ANODE CONNECTION

NOTE 2
MAX. ECCENTRICITY OF THE 🍗 OF THE ANODE CONNECTION WITH THE 🍗 OF THE RF CATHODE 0.20".

NOTE 3
EXPOSED METAL PARTS PLATED WITH 100 MSI SILVER EXCEPT BASE PINS

PIN CONNECTION
1. INTERNAL CONNECTION 5. CATHODE
2. HEATER 7. HEATER
3. CATHODE 8. CATHODE