DESCRIPTION

The F-8034 is a high vacuum, external anode diode designed for rectifier service or in special applications in shunting or charging circuits wherever high peak inverse voltages, extreme environmental conditions, or high operating frequencies and transients are present. The exceptionally rugged construction, free of internal insulators, spring tensioning devices and fragile elements, make this type adaptable to a wide range of uses. The anode is forced air-cooled and is capable of dissipating 5 kilowatts. The cathode is a thoriated tungsten filament.

ELECTRICAL

<table>
<thead>
<tr>
<th>Maximum Ratings:</th>
<th>Shunt</th>
<th>Charging</th>
<th>Rectifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Peak Inverse Voltage</td>
<td>25</td>
<td>25</td>
<td>25 kilovolts</td>
</tr>
<tr>
<td>Max. Peak Plate Current **</td>
<td>70</td>
<td>4.5 rms</td>
<td>20 amperes</td>
</tr>
<tr>
<td>Max. Average Plate Current</td>
<td>1</td>
<td>-</td>
<td>3.0 amperes</td>
</tr>
</tbody>
</table>

** Maximum peak plate current for shunt conditions are rated under conditions of filament excitation voltage of 8.25 volts.

\# Because of the wide variety of operating conditions, it is advisable that tube operation recommendations be obtained from our Engineering Department for specific conditions.

* Formerly D-1045
MECHANICAL

Mounting Position
Vertical, anode up or down

Type of Cooling
Forced Air

Anode Air Flow Required

<table>
<thead>
<tr>
<th>Plate Dissipation</th>
<th>1.8</th>
<th>2.4</th>
<th>3.0 kilowatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Flow, minimum</td>
<td>90</td>
<td>130</td>
<td>165 cfm</td>
</tr>
<tr>
<td>Pressure</td>
<td>1.0</td>
<td>2.0</td>
<td>3.0 inches of water</td>
</tr>
</tbody>
</table>

Max. Incoming Air Temperature
20 °C

Max. Glass & Seal Temperature‡
180 °C

Net Weight, approx.
6.75 pounds

‡ A temperature sensitive lacquer manufactured by the Tempil Corporation, 132 West 22nd Street, New York, New York, is convenient for this measurement.

Additional information for specific applications can be obtained from the:

Electron Tube Applications Section
ITT Components Division
P.O. Box 412
Clifton, New Jersey
ACCESSORIES
Air Jacket - RT-54893
   (Ordering No.)
   - RT-54894
      (Outline Dwg.)

OUTLINE
F-8034 POWER DIODE

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