**Half-Wave Vacuum Rectifier**

**Electrical:**

Heater Characteristics and Ratings:
- Voltage (AC or DC)................. 6.3 ± 0.6 volts
- Current at heater volts = 6.3..... 1.200 amp
- Maximum heater-cathode voltage:
  - Heater negative with respect to cathode:
    - Peak.......................... 5500 volts
    - DC component................. 900 volts
  - Heater positive with respect to cathode:
    - Peak.......................... 300 volts
    - DC component................. 100 volts

Direct Interelectrode Capacitances
(Approx.):
- P to (K,H).......................... 5.0 pf
- K to (P,H).......................... 8.5 pf
- Heater to cathode.................. 4.0 pf

**Mechanical:**

Operating Position.................. Any
- Maximum Overall Length............ 3-7/16"
- Maximum Seated Length............. 2-7/8"
- Maximum Diameter.................. 1-9/32"
- Dimensional Outline................. See General Section
- Bulb.................................. T9
- Base. ........ Short Intermediate-Shell Octal 5-Pin (JEDEC B5-49)
- Basing Designation for BOTTOM VIEW...... 4CG

**Pinout Diagram**

- Pin 2 – Do Not Use
- Pin 3 – Cathode
- Pin 5 – Plate
- Pin 7 – Heater
- Pin 8 – Heater
DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak inverse Plate Voltage</td>
<td>5500 volts</td>
</tr>
<tr>
<td>Peak Plate Current</td>
<td>1000 ma</td>
</tr>
<tr>
<td>DC Plate Current</td>
<td>175 ma</td>
</tr>
<tr>
<td>Plate Dissipation</td>
<td>6 watts</td>
</tr>
</tbody>
</table>

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma = 250 . . . . . . . 32 volts

a Socket terminals 1, 2, 4, and 6 should not be used as tie points.
b This rating is applicable when the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.