MECHANICAL DATA

Bulb ........................................ T-11
Base¹ ........................................ Modified Duodecal
Outline ...................................... See Drawing
Basing ........................................ See Drawing
Output Cathodes .............................. No. 0 thru 9
Zero Position ................................. No. 0 Cathode Aligned with Pin No. 12 ± 10°
Mounting Position ......................... Any

ELECTRICAL DATA

INTERELECTRODE CAPACITANCES (Approx.)

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Cathode to All Other Elements</td>
<td>4.2 pf</td>
</tr>
<tr>
<td>Guide No. 2 to All Other Elements</td>
<td>10 pf</td>
</tr>
<tr>
<td>Guide No. 1 to All Other Elements</td>
<td>11 pf</td>
</tr>
</tbody>
</table>

RATINGS (Absolute Values)

<table>
<thead>
<tr>
<th>Component</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode Supply Voltage²</td>
<td>400</td>
<td>800 Volts</td>
</tr>
<tr>
<td>Voltage Between Electrodes</td>
<td>—</td>
<td>140 Volts</td>
</tr>
<tr>
<td>(Other than Anode)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer Voltage</td>
<td>35</td>
<td>140 Volts</td>
</tr>
<tr>
<td>Anode Current</td>
<td>0.6</td>
<td>0.8 mA</td>
</tr>
<tr>
<td>Input Frequency</td>
<td>0</td>
<td>100 Kpps</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>—55</td>
<td>+60 °C</td>
</tr>
</tbody>
</table>

TYPICAL OPERATING CHARACTERISTICS

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode Supply Voltage²</td>
<td>400    Volts</td>
</tr>
<tr>
<td>Nominal Tube Drop</td>
<td>235    Volts</td>
</tr>
<tr>
<td>Guide Bias</td>
<td>+45 Volts</td>
</tr>
<tr>
<td>Square Double Pulse Drive Amplitude (Each Pulse)³</td>
<td>—85 Volts</td>
</tr>
<tr>
<td>Square Double Pulse Width (Each Pulse)³</td>
<td>4 μSec.</td>
</tr>
<tr>
<td>Forced Reset Pulse Amplitude</td>
<td>—120 Volts</td>
</tr>
<tr>
<td>Forced Reset Pulse Width</td>
<td>4 μSec.</td>
</tr>
<tr>
<td>Cathode Load Resistor⁴</td>
<td>50 K-Ohms</td>
</tr>
</tbody>
</table>

NOTES:

1. Sockets are available from Sylvania Electric Products Inc., 1035 Westminster, Williamsport, Pennsylvania. (Part No. 7460-0008)
2. A value for the anode resistor can be computed by subtracting the nominal tube drop from the supply voltage and dividing the remainder by the desired operating current.
3. Two separate pulses, back to back or with slight overlap, must be maintained.
4. The peak pulse output voltage can be determined by the IR drop across the chosen cathode resistor.
5. A counter tube brochure is available on request from Sylvania Electric Products Inc., 1100 Main Street, Buffalo 9, New York.

SYLVANIA
ELECTRONIC TUBES
A Division of Sylvania Electric Products Inc.
RECEIVING TUBE OPERATIONS
EMPORIUM, PA.
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EMPORIUM, PENNSYLVANIA
DECEMBER, 1963
PAGE 1 OF 2
File Under SPECIAL PURPOSE ELECTRONIC TUBES
OUTLINE

BASE CONNECTIONS

CATHODE 8      CATHODE 7
CATHODE 9      CATHODE 6
CATHODE 10     CATHODE 5
GUIDE 1        CATHODE 4
GUIDE 2        CATHODE 3
CATHODE 1      CATHODE 2

(CENTER POST) ANODE