MECHANICAL DATA

Bulb .................................................. T-6½
Base .................................................. Small Button 9-Pin
Basing .................................................. 9AJ
Cathode ................................................ Unipotential
Mounting Position ................................. Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ..................................... 6.3 Volts
Heater Current .................................... 450 Ma

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)¹

<table>
<thead>
<tr>
<th>Section 1</th>
<th>Section 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate</td>
<td>1.9</td>
</tr>
<tr>
<td>Input</td>
<td>3.0</td>
</tr>
<tr>
<td>Output</td>
<td>1.1</td>
</tr>
<tr>
<td>Heater to Cathode</td>
<td>3.2</td>
</tr>
<tr>
<td>Grid to Grid (Max.)</td>
<td>0.003 µf</td>
</tr>
<tr>
<td>Plate to Plate (Max.)</td>
<td>0.075 µf</td>
</tr>
<tr>
<td>Ground Grid Operation</td>
<td></td>
</tr>
<tr>
<td>Plate to Cathode</td>
<td>0.24</td>
</tr>
<tr>
<td>Input</td>
<td>6.0</td>
</tr>
<tr>
<td>Output</td>
<td>2.8</td>
</tr>
</tbody>
</table>

RATINGS (Design Center Values)

Plate Voltage ...................................... 300 Volts Max.
Plate Dissipation (Each Section) ................. 2.7 Watts Max.
Heater-Cathode Voltage² ................................ 90 Volts Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier (Each Section)

Plate Voltage ...................................... 100 | 150 Volts
Cathode Bias Resistor .............................. 120 | 56 Ohms
Plate Current ....................................... 9.0 | 18 Ma
Transconductance .................................. 6100 | 8500 µmhos
Amplification Factor ................................ 37 | 40
Plate Resistance .................................... 6100 | 4700 Ohms
Grid Voltage for Iₜ = 10 µa ....................... -9 | -12 Volts

NOTES:

1. Section 1 connects to Pins 6, 7 and 8. Section 2 connects to Pins 1, 2 and 3.
2. When operated as a cascode amplifier and the two sections are connected in series, the heater-cathode voltage of the grounded grid stage may be as high as 250 volts maximum with the heater negative with respect to the cathode.

SYLVANIA ELECTRIC PRODUCTS INC.

Prepared and Released By The
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EMPORIUM, PENNSYLVANIA
AVERAGE PLATE CHARACTERISTICS

[Diagram showing plate characteristics with voltage and current axes.]
AVERAGE CHARACTERISTICS

TRANSCONDUCTANCE (g_m) IN MICROMHOHS

E_f = 6.3 VOLTS
E_b = 150 VOLTS

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PLATE RESISTANCE (R_p) IN OHMS

AMPLIFICATION FACTOR (m)

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AVERAGE CHARACTERISTICS

PLATE MILLIAMPERES

GRID VOLTAGE IN VOLTS

E1 = 6.3 VOLTS