SYLVANIA TYPE 6C57 8C57
DOUBLE TRIODE

MECHANICAL DATA
- Bulb: T-6/8
- Base: E9-1, Small Button, 9-Pin
- Outline: 6-3
- Basing: 
- Cathode: Coated Unipotential
- Mounting Position: Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

<table>
<thead>
<tr>
<th>6C57</th>
<th>8C57</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater Voltage</td>
<td>6.3</td>
</tr>
<tr>
<td>Heater Current</td>
<td>600</td>
</tr>
<tr>
<td>Heater Warm-up Time (See Appendix)</td>
<td>11</td>
</tr>
<tr>
<td>Heater-Cathode Voltage (Design Center Values)</td>
<td>600</td>
</tr>
<tr>
<td>Heater Negative with Respect to Cathode</td>
<td>200 Volts Max</td>
</tr>
<tr>
<td>Total D C and Peak</td>
<td>200 Volts Max</td>
</tr>
<tr>
<td>Heater Positive with Respect to Cathode</td>
<td>100 Volts Max</td>
</tr>
<tr>
<td>D C</td>
<td>200 Volts Max</td>
</tr>
</tbody>
</table>

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

<table>
<thead>
<tr>
<th>Triode No. 1</th>
<th>Triode No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate</td>
<td>2.6</td>
</tr>
<tr>
<td>Input: g to (k+h+es)</td>
<td>1.8</td>
</tr>
<tr>
<td>Output: p to (k+h+es)</td>
<td>0.5</td>
</tr>
</tbody>
</table>

RATINGS (Design Center Values—Except as Noted)

<table>
<thead>
<tr>
<th>Triode No. 1</th>
<th>Triode No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Deflection Oscillator and Amplifier</td>
<td></td>
</tr>
<tr>
<td>D C Plate Voltage (Oscillator)</td>
<td>500</td>
</tr>
<tr>
<td>Peak Positive Pulse Plate Voltage (Abs. Max.)</td>
<td>2200 Volts</td>
</tr>
<tr>
<td>Peak Negative Pulse Grid Voltage</td>
<td>400</td>
</tr>
<tr>
<td>Plate Dissipation</td>
<td>1.25</td>
</tr>
<tr>
<td>Average Cathode Current</td>
<td>20</td>
</tr>
<tr>
<td>Peak Cathode Current</td>
<td>70</td>
</tr>
<tr>
<td>Grid Circuit Resistance</td>
<td>2.2</td>
</tr>
</tbody>
</table>

AVERAGE CHARACTERISTICS

<table>
<thead>
<tr>
<th>Triode No. 1</th>
<th>Triode No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate Voltage</td>
<td>250</td>
</tr>
<tr>
<td>Grid Voltage</td>
<td>-8.5</td>
</tr>
<tr>
<td>Plate Current</td>
<td>10.5</td>
</tr>
<tr>
<td>Transconductance</td>
<td>2200</td>
</tr>
<tr>
<td>Amplification Factor</td>
<td>17.0</td>
</tr>
<tr>
<td>Plate Resistance</td>
<td>7700</td>
</tr>
<tr>
<td>Plate Current at ( E_g = -16 ) Volts</td>
<td>3.0 Ma</td>
</tr>
<tr>
<td>Grid Voltage for ( I_k = 10 \mu A )</td>
<td>-24</td>
</tr>
<tr>
<td>Grid Voltage for ( I_k = 50 \mu A )</td>
<td>-22 Volts</td>
</tr>
</tbody>
</table>

NOTES:
1. Triode No. 1 connects to pins 6, 7 and 8.
2. Triode No. 2 connects to pins 1, 3 and 9.
3. For operation in a 525 line, 30-frame system as described in "Standards of Good Engineering Practice for Television Broadcasting Stations; Federal Communications Commission," the duty cycle of the voltage must not exceed 15% of one scanning cycle.
4. In stages operating with grid leak bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.

APPLICATION

The Sylvania Types 6C57 and 8C57 are miniature, double triodes having dissimilar sections. Section No. 1 is intended for operation as a vertical deflection oscillator and Section No. 2 as a vertical deflection amplifier. The 6C57 and 8C57 incorporate controlled heater warm-up time to insure dependable operation in television receivers employing a series heater string.

SYLVANIA ELECTRONIC TUBES