Sylvania

TYPE 6K4

GENERAL PURPOSE TRIODE

RATINGS

Heater Voltage (AC or DC) ±10% 5.3 Volts
Maximum Plate Voltage 250 Volts
Maximum Heater to Cathode Voltage 90 Volts
Maximum Plate Dissipation (Open Air) 3.0 Watts
Maximum Cathode Current 20.0 Ma.

Direct Interelectrode Capacitances:

<table>
<thead>
<tr>
<th>Shielded*</th>
<th>Unshielded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate</td>
<td>2.4</td>
</tr>
<tr>
<td>Input</td>
<td>2.4</td>
</tr>
<tr>
<td>Output</td>
<td>3.8</td>
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</tbody>
</table>

*With a .405" diameter shield connected to cathode.

TYPICAL OPERATING CONDITIONS

Heater Voltage 6.3 Volts
Heater Current 150 Ma.
Plate Voltage 200 Volts
Grid Voltage Obtained from Self Bias Resistor of 680 Ohms
Plate Current 11.5 Ma.
Transconductance 3450 µmhos
Amplification Factor 16
Plate Resistance 4650 Ohms
Grid Voltage for Plate Current Cut-Off to 10 µa. -30 Volts

*Provides an operating bias of approximately 8.0 volts

Maximum grid circuit resistance should not exceed 1/2 megohm. Fixed bias operation is not recommended.

CIRCUIT APPLICATION

Sylvania Type 6K4 is designed for use in high frequency applications requiring a very small, light-weight tube, highly resistant to shock and vibration.

At frequencies of around 500 Mc., an output of approximately 3/4 Watt may be obtained when used in a suitable circuit.

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