6SL7-GT
HIGH-MU TWIN TRIODE

GENERAL DATA

Electrical:
Heater, for Unipotential Cathodes:
Voltage: 6.3 ac or dc volts
Current: 0.3 amp

Direct Interelectrode Capacitances (Approx.):

<table>
<thead>
<tr>
<th>Unit No. 1</th>
<th>Unit No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to plate</td>
<td>2.8</td>
</tr>
<tr>
<td>Grid to cathode and heater</td>
<td>3.0</td>
</tr>
<tr>
<td>Plate to cathode and heater</td>
<td>3.8</td>
</tr>
</tbody>
</table>

Mechanical:
Mounting Position: Any
Maximum Overall Length: 3-5/16"
Maximum Seated Length: 2-3/4"
Maximum Diameter: 1-9/32"
Bulb: T-9
Base: Intermediate–Shell Octal 8-Pin (JETEC No. B8–6)
or Short Intermediate–Shell Octal 8-Pin (JETEC No. B8–46)

Basing Designation for BOTTOM VIEW: 8BD

Pin 1 - Grid of Unit No. 2
Pin 2 - Plate of Unit No. 2
Pin 3 - Cathode of Unit No. 2
Pin 4 - Grid of Unit No. 1
Pin 5 - Plate of Unit No. 1
Pin 6 - Cathode of Unit No. 1
Pin 7 - Heater
Pin 8 - Heater

AMPLIFIER—Class A1
Values are for Each Unit

Maximum Ratings, Design–Center Values:

- PLATE VOLTAGE: 300 max. volts
- GRID VOLTAGE:
  - Positive bias value: 0 max. volts
- PLATE DISSIPATION: 1 max. watt
- PEAK HEATER–CATHODE VOLTAGE:
  - Heater negative with respect to cathode: 90 max. volts
  - Heater positive with respect to cathode: 90 max. volts

Characteristics:

- Plate Voltage: 250 volts

\(^o\) With close-fitting shield (JETEC No. 308) connected to cathode.

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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

\(\rightarrow\) Indicates a change.
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**HIGH-MU TWIN TRIODE**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid Voltage</td>
<td>-2 volts</td>
</tr>
<tr>
<td>Amplification Factor</td>
<td>70 ohms</td>
</tr>
<tr>
<td>Plate Resistance (Approx.)</td>
<td>44000 μhos</td>
</tr>
<tr>
<td>Transconductance</td>
<td>1600 ma</td>
</tr>
<tr>
<td>Plate Current</td>
<td>2.3 ma</td>
</tr>
</tbody>
</table>

**Typical Operation as Resistance-Coupled Amplifier:**

See RESISTANCE-COUPLED AMPLIFIER CHART No. 7 at front of this Section

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