TWIN TRIODE
POWER AMPLIFIER

UNIPOTENTIAL CATHODE
HEATER
6.3 VOLTS  0.8 AMPERE
AC OR DC

GLASS BULB

MEDIUM 7 PIN BASE

THE TUNG-SOL 6A6 IS A TWIN TRIODE DESIGNED FOR SERVICE AS A CLASS B POWER AMPLIFIER AND AS A CLASS A1 DRIVER. WITH THE EXCEPTION OF HEATER RATINGS, ITS RATINGS AND CHARACTERISTICS ARE IDENTICAL TO THOSE OF TYPES 6N7, 6N7G, 6N7GT AND 53.

RATINGS

CLASS A1 AMPLIFIER

MAXIMUM PLATE VOLTAGE 300 VOLTS
MAXIMUM PEAK PLATE CURRENT PER PLATE 125 MA.
MAXIMUM AVERAGE DISSIPATION PER PLATE 1.0 WATT

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER - TRIODES CONNECTED IN PARALLEL

PLATE VOLTAGE 250 294 VOLTS
CONTROL GRID VOLTAGE -5 -6 VOLTS
PLATE CURRENT 6 7 MA.
PLATE RESISTANCE 11300 11000 OHMS
TRANSCONDUCTANCE 3100 3200 UMHS
AMPLIFICATION FACTOR 35 35

RATINGS

CLASS B POWER AMPLIFIER

MAXIMUM PLATE VOLTAGE 300 VOLTS
MAXIMUM PEAK PLATE CURRENT 125 MA.
MAXIMUM AVERAGE DISSIPATION PER PLATE 5.5 WATTS
### OPERATING CONDITIONS AND CHARACTERISTICS

<table>
<thead>
<tr>
<th></th>
<th>Ideal</th>
<th>Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZERO SIGNAL PLATE VOLTAGE</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>DC GRID VOLTAGE</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PEAK AF SIGNAL VOLTAGE</td>
<td>29</td>
<td>41</td>
</tr>
<tr>
<td>Maximum Signal Peak Grid Current</td>
<td>20</td>
<td>22</td>
</tr>
<tr>
<td>ZERO SIGNAL PLATE CURRENT</td>
<td>17.5</td>
<td>17.5</td>
</tr>
<tr>
<td>Maximum Signal DC Plate Current</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>Grid Impedance at 400 Cycles</td>
<td>0</td>
<td>516 Ω</td>
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<tr>
<td>Plate Supply Impedance</td>
<td>0</td>
<td>1000</td>
</tr>
<tr>
<td>Effective Load Resistance</td>
<td>8000</td>
<td>8000</td>
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<tr>
<td>Total Harmonic Distortion</td>
<td>4</td>
<td>8</td>
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<tr>
<td>Third Harmonic Distortion</td>
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<td>7.5</td>
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<tr>
<td>Fifth Harmonic Distortion</td>
<td>1.5</td>
<td>2.5</td>
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<tr>
<td>Power Output</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

A. Unless otherwise specified, values are for both units.
B. For power output shown.
C. Includes peak grid impedance voltage drop.
D. The 526 ohm impedance consists of a 50 MHz inductance and a 500 ohm resistance.

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### Graph

**6A6**

\[E_f = 6.3 \text{ V.}\]

Each triode unit

![Graph](image_url)