TUNG-SOL

BEAM PENTODE

COATED UNIPOTENTIAL CATHODE
HEATER
50 VOLTS 0.15 AMP.
AC OR DC
ANY MOUNTING POSITION

GLASS BULB

THE 50C6GA IS A BEAM POWER AMPLIFIER HAVING HIGH POWER SENSITIVITY AND HIGH POWER OUTPUT AT COMPARATIVELY LOW DC SUPPLY VOLTAGES. EXCEPT FOR ITS T-12 ENVELOPE THE 50C6GA IS IDENTICAL TO THE 50C6G.

RATINGS
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE
50 VOLTS

MAXIMUM HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE
180 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE
180 VOLTS

MAXIMUM PLATE VOLTAGE
200 VOLTS

MAXIMUM GRID #2 SUPPLY VOLTAGE
200 VOLTS

MAXIMUM GRID #2 VOLTAGE
SEE RATING CHART

MAXIMUM PLATE DISSIPATION
12.5 WATTS
MAXIMUM GRID #2 DISSIPATION
1.75 WATTS

MAXIMUM GRID #1 CIRCUIT RESISTANCE:
FIXED BIAS
0.1 MEGOHM
SELF BIAS
0.5 MEGOHM

CONTINUED ON FOLLOWING PAGE
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value 1</th>
<th>Value 2</th>
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<tbody>
<tr>
<td>HEATER VOLTAGE</td>
<td>50</td>
<td>VOLTS</td>
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<tr>
<td>HEATER CURRENT</td>
<td>0.15</td>
<td>AMP.</td>
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<tr>
<td>PLATE VOLTAGE</td>
<td>135</td>
<td>200</td>
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<tr>
<td>GRID #2 VOLTAGE</td>
<td>135</td>
<td>135</td>
</tr>
<tr>
<td>GRID #1 VOLTAGE</td>
<td>-13.5</td>
<td>-14</td>
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<td>PEAK AF GRID #1 VOLTAGE</td>
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<tr>
<td>ZERO SIGNAL PLATE CURRENT</td>
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<td>61</td>
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<tr>
<td>MAXIMUM SIGNAL PLATE CURRENT</td>
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<tr>
<td>ZERO SIGNAL GRID #2 CURRENT</td>
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<td>MAXIMUM SIGNAL GRID #2 CURRENT</td>
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<td>TRANSCONDUCTANCE</td>
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<td>7100</td>
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<tr>
<td>PLATE RESISTANCE (APPROX.)</td>
<td>9300</td>
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<td>LOAD RESISTANCE</td>
<td>2000</td>
<td>2600</td>
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<tr>
<td>MAXIMUM SIGNAL POWER OUTPUT</td>
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<tr>
<td>TOTAL HARMONIC DISTORTION (APPROX.)</td>
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</tbody>
</table>

Diagram:
- Graph titled 50C6GA
- Points plotted: E_C1 = 0, E_f = 50 Volts, E_C2 = 135 Volts
- Axes: Plate Current (I_k) - Milliamperes vs. Plate Volts
- Key values: 0, 5, 10, 13.5, 14, 15, 20, 25