The 6Bk4A is a sharp cut-off beam triode for high-voltage, low-current application shunt regulation of the high voltage, DC power supplied incolor television receivers. Except for allowable plate dissipation, this type is the same as the 6Bk4.

**Direct Interelectrode Capacitances**

<table>
<thead>
<tr>
<th>Capacitance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate: G to P</td>
<td>0.03 pf</td>
</tr>
<tr>
<td>Grid to Cathode and Heater: G to (K + H)</td>
<td>2.6 pf</td>
</tr>
<tr>
<td>Plate to Cathode and Heater: P to (K + H)</td>
<td>1.0 pf</td>
</tr>
</tbody>
</table>

**Heater Characteristics and Ratings**

Design maximum system - see EIA Standard RS-239

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Characteristics</td>
<td>6.3 Volts 200 MA</td>
</tr>
<tr>
<td>Limits of Applied Voltage - AC or DC</td>
<td>6.3 ± 0.6 Volts</td>
</tr>
<tr>
<td>Maximum Heater - Cathode Voltage: Heater Negative with Respect to Cathode</td>
<td>200 Volts</td>
</tr>
<tr>
<td>Heater Positive with Respect to Cathode</td>
<td>Not Recommended</td>
</tr>
</tbody>
</table>

Continued on following page.
CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS
DESIGN MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

MAXIMUM DC PLATE VOLTAGE 27,000 VOLTS
MAXIMUM UNREGULATED DC SUPPLY VOLTAGE 60,000 VOLTS
MAXIMUM NEGATIVE GRID VOLTAGE:
DC VALUE 135 VOLTS
PEAK VALUE (FOR DURATION OF 20 SEC., MAX., DURING EQUIPMENT WARM-UP) 440 VOLTS
MAXIMUM PLATE DISSIPATION 30 WATTS
MAXIMUM DC PLATE CURRENT 1.6 MA

MAXIMUM GRID CIRCUIT RESISTANCE
FOR USE WITH "FLYBACK TRANSFORMER" HIGH VOLTAGE SUPPLY.
3 MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
SHUNT VOLTAGE - REGULATOR TUBE
IN ACCOMPANYING CIRCUIT

UNREGULATED SUPPLY:
DC VOLTAGE 36,000 VOLTS
EQUIVALENT RESISTANCE 11 MEGOHMS

VOLTAGE DIVIDER VALUES:
R₁ (5 WATTS) 220 MEGOHMS
R₂ (2 WATTS) 1 MEGOHMS
R₃ (½ WATT) 820,000 OHMS

REFERENCE VOLTAGE:
DC VALUE 200 VOLTS
EQUIVALENT RESISTANCE OF SUPPLY 1,000 OHMS
EFFECTIVE GRID-PLATE TRANSCONDUCTANCE 200 μMHOES

DC PLATE CURRENT:
FOR LOAD CURRENT OF 0 MA, 1,000 μAMP.
FOR LOAD CURRENT OF 1 MA, 45 μAMP.

REGULATED DC OUTPUT VOLTAGE:
FOR LOAD CURRENT OF 0 MA, 25,000 VOLTS
FOR LOAD CURRENT OF 1 MA, 24,500 VOLTS