THE 6DE6 IS A SHARP-CUTOFF PENTODE USING THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE IN 40 MAGACYCLE GAIN-CONTROLLED VIDEO IF STAGES.

DIRECT INTERELECTRODE CAPACITANCES

<table>
<thead>
<tr>
<th></th>
<th>WITH SHIELD</th>
<th>WITHOUT SHIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRID TO PLATE (G1 TO P)</td>
<td>0.015 µuf</td>
<td></td>
</tr>
<tr>
<td>INPUT: G2 TO (H+K+G2+G3+I.S.)</td>
<td>6.5 µuf</td>
<td></td>
</tr>
<tr>
<td>OUTPUT: P TO (H+K+G2+G3+I.S.)</td>
<td>3.0 µuf</td>
<td></td>
</tr>
</tbody>
</table>

A. EXTERNAL SHIELD #316 CONNECTED TO P1N #2.

RATINGS

CLASS A1 AMPLIFIER

HEATER VOLTAGE 6.3±10% VOLTS

MAXIMUM HEATER CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE 200 VOLTS
TOTAL DC AND PEAK
HEATER POSITIVE WITH RESPECT TO CATHODE DC 100 VOLTS
TOTAL DC AND PEAK 200 VOLTS
MAXIMUM PLATE VOLTAGE 330 VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE 330 VOLTS
MAXIMUM GRID #2 VOLTAGE SEE CURVE
MAXIMUM PLATE DISSIPATION 2.3 WATTS
MAXIMUM GRID #2 DISSIPATION 0.55 WATT
MAXIMUM POSITIVE DC GRID #1 VOLTAGE 0 VOLTS

H. DESIGN MAXIMUM RATINGS ARE THE LIMITING VALUES EXPRESSED WITH RESPECT TO ROGUE TUBES AT WHICH SATISFACTORY TUBE LIFE CAN BE EXPECTED TO OCCUR IN THE TYPES OF SERVICE FOR WHICH THE TUBE IS RATED. THEREFORE, EQUIPMENT DESIGNER MUST ESTABLISH THE CIRCUIT DESIGN SO THAT INITIALLY AND THROUGHOUT EQUIPMENT LIFE NO DESIGN MAXIMUM VALUE IS EXCEEDED WITH A ROGUE TUBE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, AND ENVIRONMENTAL CONDITIONS.

INDICATES A CHANGE. CONTINUED ON FOLLOWING PAGE
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

HEATER VOLTAGE 6.3 VOLTS
HEATER CURRENT 0.3 AMPERES
PLATE VOLTAGE 125 VOLTS
GRID #3 VOLTAGE PIN 7 CONNECTED TO PIN 2 AT SOCKET
GRID #2 VOLTAGE 125 VOLTS
CATHODE BIAS RESISTOR 56 OHMS
PLATE RESISTANCE (APPROX.) 0.25 MEGOHM
TRANSCONDUCTANCE 8,000 UMHOS
GRID #2 VOLTAGE (APPROX.) FOR IB = 20 μA -9 VOLTS
TRANSCONDUCTANCE (Ec₁ = -5.5V, Rk = 0) 700 UMHOS
PLATE CURRENT 15.5 MA
GRID #2 CURRENT 4.2 MA

→ INDICATES A CHANGE.

6DE6
THIS CURVE ALSO APPLIES TO TYPES IN WHICH GRIDS #2 AND #4 ARE CONNECTED TOGETHER WITHIN THE TUBE.