SYLVANIA TYPES 6EJ7
4EJ7
3EJ7

MECHANICAL DATA

Bulb .................................................. E9-I, miniature button 9-Pin
Base .................................................. T-6\(\frac{1}{2}\)
Outline: Max. Seated Height .................................. 2\(\frac{1}{2}\), Inches
Basing .................................................. 9AQ
Cathode .................................................. Coated Unipotential
Mounting Position .................................. Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

<table>
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<tr>
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<th>3EJ7 Series</th>
<th>4EJ7 Series</th>
<th>6EJ7 Parallel</th>
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<tr>
<td>Heater Operation</td>
<td>3.4</td>
<td>4.4</td>
<td>6.3 Volts</td>
</tr>
<tr>
<td>Heater Current</td>
<td>600</td>
<td>450</td>
<td>300 Ma</td>
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<tr>
<td>Heater Warm-up Time</td>
<td>11</td>
<td>11</td>
<td>— Seconds</td>
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Maximum Heater-Cathode Voltage

Heater Negative with Respect to Cathode: Total D C and Peak: 150 Volts

Heater Positive with Respect to Cathode: Total D C and Peak: 150 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate: .005 \(\mu\)F Max.
Input: \(g_1\) to \((h+k+g2+g3+I.S.)\): 10 \(\mu\)F
Output: \(p\) to \((h+k+g2+g3+I.S.)\): 3 \(\mu\)F

RATINGS (Design Center Values)

Plate Voltage with \(I_b = 0\) Ma: 550 Volts Max.
Plate Voltage: 250 Max.
Grid No. 2 Voltage with \(I_c = 0\) Ma: 550 Volts Max.
Grid No. 2 Voltage: 250 Volts Max.
Plate Dissipation: 2.5 Watts Max.
Grid No. 2 Dissipation: 0.9 Watts Max.
Cathode Current: 25 Ma Max.
Grid No. 1 Circuit Resistance: 1.0 Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier
Plate Voltage: 200 Volts
Grid No. 3 Voltage: 0 Volts
Grid No. 2 Voltage: 200 Volts
Grid No. 1 Voltage: -2.5 Volts
Plate Current: 10 Ma
Grid No. 2 Current: 4.1 Ma
Transconductance (G2 to G1): 15,000 \(\mu\)hos
Amplification Factor (G2 to G1): 90
Plate Resistance (approx.): 0.35 Megohm
Grid No. 1 Impedance at 40 MC: 30,000 Ohms

NOTE:
1. Input damping of tube and typical ceramic socket with both cathode leads tied directly to ground is about 10,000 ohms.

APPLICATION

The Sylvania Types 3EJ7, 4EJ7 and 6EJ7 are T-6\(\frac{1}{2}\) high transconductance sharp-cutoff pentodes designed for service as IF amplifiers.
Types 3EJ7 and 4EJ7 are designed for series string operation.

SYLVANIA ELECTRONIC TUBES
111-8-6-62
SYLVANIA TYPES 6EJ7, 4EJ7, 3EJ7 (Cont’d)

AVERAGE TRANSFER CHARACTERISTICS

ES = RATED VALUE
EC3 = 0 VOLTS
PENT. CONN.

PLATE CURRENT IN mA

GRID NO. 1 VOLTAGE

SYLVANIA ELECTRONIC TUBES