SYLVANIA TYPES

6EH7
4EH7
3EH7

MECHANICAL DATA

Bulb ........................................ T-6½
Base .......................................... ES-1, Miniature Button 9-Pin
Outline ....................................
Max. Seated Height ....................... 2½ Inches
Basing ...................................... 9AQ
Cathode .................................... Coated Unipotential
Mounting Position ...................... Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

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<th>3EH7</th>
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DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate ................................ 0.005 µF Max.
Input: g1 to (h + k + g2 + g3 + I.S.) .... 90 µF
Output: p to (h + k + g2 + g3 + I.S.) .... 3 µF

RATINGS (Design Center Values)

Plate Voltage with Ib = 0 Ma ............ 550 Volts Max.
Plate Voltage ................................ 250 Volts Max.
Grid No. 2 Voltage with Ic2 = 0 Ma ...... 550 Volts Max.
Grid No. 2 Voltage ....................... 250 Volts Max.
Plate Dissipation ......................... 2.5 Watts Max.
Grid No. 2 Dissipation .................. 0.65 Watts Max.
Cathode Current ......................... 20 Ma Max.
Grid No. 1 Circuit Resistance .......... 1.0 Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION

Characteristics
Plate Voltage ............................. 200 Volts
Grid No. 3 Voltage ..................... 0 Volts
Grid No. 2 Voltage ..................... 90 Volts
Grid No. 1 Voltage ..................... -2 Volts
Plate Current ............................ 12 Ma
Grid No. 2 Current ..................... 4.5 Ma
Transconductance ...................... 12,500 umhos
Plate Resistance (approx.) .......... 0.5 Megohm
Grid No. 1 Impedance at 40 MC/S ....... 30,000 Ohms

CHARACTERISTICS AND TYPICAL OPERATION (Continued)

Typical Operation
Plate Voltage ......................... 200 Volts
Grid No. 3 Voltage ..................... 0 Volts
Grid No. 2 Supply Voltage .......... 200 Volts
Grid No. 2 Series Resistor ........ 22,000 Ohms
Grid No. 1 Voltage ................. -19.5 -9.5 -6.5 -2 Volts
Transconductance ................. 125 625 1250 12,500 umhos
Ecl for a Cross Mod. Factor of 1% .... 450 160 100 — MV (RMS)

NOTE:
1. Input damping of tube and typical ceramic socket with both cathode leads returned directly to ground is about 11,000 ohms.

APPLICATION

The Sylvania Types 3EH7, 4EH7 and 6EH7 are T-6½ high transconductance semi-remote cutoff pentodes designed for service as VHF IF amplifiers.

Types 3EH7 and 4EH7 have controlled heater warm-up time for series string operation.

SYLVANIA ELECTRONIC TUBES

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