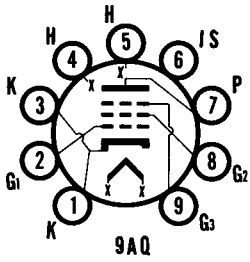
SYLVANIA TYPES 6EJ7 4EJ7 3EJ7



MECHANICAL DATA

Bulb	T-6½
Base	E9-1, Miniature Button 9-Pin
Outline: Max. Seated Height	2 5/32 Inches
Basing	9AQ
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Operation	3EJ7 Series	4EJ7 Series	6EJ7 Parallel
Heater Voltage	3.4	4.4	6.3 Volts
Heater Current	600	450	300 Ma
Heater Warm-up Time	11	11	— Seconds
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 μμf Max.
Input: g1 to (h+k+g2+g3+I.S.)	10 μμf
Output: p to (h+k+g2+g3+I.S.)	3 μμf

RATINGS (Design Center Values)

Plate Voltage with Ib = 0 Ma	550 Volts Max.
Plate Voltage	250 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	0.9 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	15,000 μmhos
Amplification Factor (G2 to G1)	60
Plate Resistance (approx.)	0.35 Megohm
Grid No. 1 Impedance at 40 MC	30,000 Ohms[1]

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-6½ high transconductance sharp-cutoff pentodes designed for service as IF amplifiers.
Types 3EJ7 and 4EJ7 are designed for series string operation.

AVERAGE TRANSFER CHARACTERISTICS