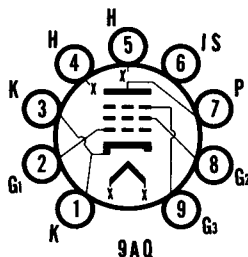




SYLVANIA TYPES 6EJ7 4EJ7 3EJ7



MECHANICAL DATA

Bulb.....	T-6 1/2
Base.....	E9-1, Miniature Button 9-Pin
Outline: Max. Seated Height.....	2 5/8 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 μ f Max.
Input: g1 to (h+k+g2+g3+I.S.).....	10 μ f
Output: p to (h+k+g2+g3+I.S.).....	3 μ f

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 μ mhos
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-6 1/2 high transconductance sharp-cutoff pentodes designed for service as IF amplifiers.
Types 3EJ7 and 4EJ7 are designed for series string operation.

AVERAGE TRANSFER CHARACTERISTICS

