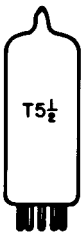
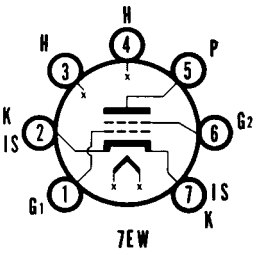


SYLVANIA TYPES 6EV5 2EV5 3EV5



VHF TETRODE

MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button 7-Pin
Outline	5-2
Basing	7EW
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

	2EV5	3EV5	6EV5	
Heater Voltage	2.4	2.9	6.3	Volts
Heater Current	600	450	200	Ma
Heater Warm-up Time[1]	11	11		Seconds
Max. Heater Voltage Range[2]			5.7-6.9	Volts
Max. Heater Current Range	560-640	420-480	—	Ma
Heater-Cathode Voltage (Design Maximum Values)				
Heater Negative with Respect to Cathode				
Total D C and Peak	200	200	100	Volts Max.
Heater Positive with Respect to Cathode				
D C	100	100	50	Volts Max.
Total D C and Peak	200	200	100	Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Shielded)[3]

Grid No. 1 to Plate	.035 $\mu\mu$f Max.
Input	4.5 $\mu\mu$f
Output	2.9 $\mu\mu$f

RATINGS (Design Maximum Values)

Plate Voltage	275 Volts Max.
Grid No. 2 Supply Voltage	180 Volts Max.
Grid No. 2 Voltage	See 6AM8 Rating Chart
Plate Dissipation	3.25 Watts Max.
Grid No. 2 Dissipation	0.2 Watts Max.
Positive Grid No. 1 Voltage	0 Volts Max.
Cathode Current	20 Ma Max.
Grid Circuit Resistance	0.5 Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	250 Volts
Grid No. 2 Voltage	80 Volts
Grid No. 1 Voltage	−1 Volt
Plate Current	11.5 Ma
Grid No. 2 Current	0.9 Ma
Transconductance	8800 μmhos
Plate Resistance	0.150 Megohm
Ec1 for Gm = 100 μmhos (approx.)	−4.5 Volts

NOTES:

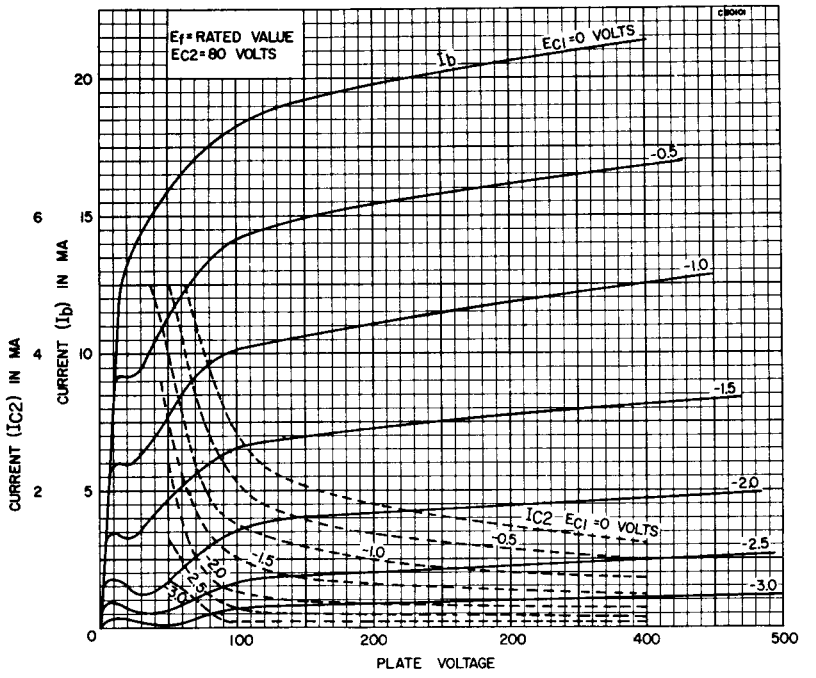
1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided by the rated heater current.
2. Design Maximum Rating.
3. Shield No. 316 connected to cathode.

APPLICATION

The 2EV5, 3EV5 and 6EV5 are miniature, sharp cutoff tetrodes designed particularly for service as VHF amplifiers in television receiver tuners. The 2EV5 and 3EV5 feature controlled heater warm-up time for use in series string television receivers.

SYLVANIA TYPES 6EV5, 2EV5, 3EV5 (Cont'd)

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS