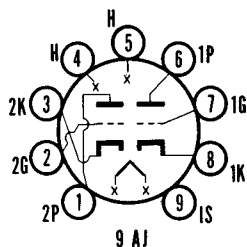


SYLVANIA TYPES

**6JK8
8JK8
17JK8**



MECHANICAL DATA

Bulb.....	T-6 1/2
Base.....	E9-1, Miniature Button 9-Pin
Outline.....	6-2
Basing.....	9AJ
Cathode.....	Coated Unipotential
Mounting Position.....	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Operation	17JK8 Series	8JK8 Series	6JK8 Parallel
Heater Voltage.....	16.8	8.4	6.3 Volts
Heater Current.....	150	300	400 Ma
Heater Warm-up Time.....	17	—	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total D C and Peak.....			100 Volts
Heater Positive with Respect to Cathode			
Total D C and Peak.....			100 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)

	Section No. 1	Section No. 2
Grid to Plate.....	1.4	.60 $\mu\mu\text{f}$
Input: g to (h+k+I.S.+E.S.).....	3.0	5.0 $\mu\mu\text{f}$
Output: p to (h+k+I.S.+E.S.).....	1.0	4.0 $\mu\mu\text{f}$
Heater to Cathode.....	2.8	2.8 $\mu\mu\text{f}$
Grid to Grid.....		.003 $\mu\mu\text{f}$ Max.
Plate to Plate.....		.009 $\mu\mu\text{f}$ Max.

RATINGS (Design Maximum Values)

	Oscillator Section No. 1	R-F Amp. Section No. 2
Plate Voltage.....	165	200 Volts Max.
Plate Dissipation.....	1.0	2.0 Watts Max.
D C Cathode Current.....	22	22 Ma Max.
Negative Grid Voltage.....	50	50 Volts Max.
Grid Circuit Resistance (Self Bias).....	1.0	1.0 Megohms Max.

CHARACTERISTICS AND TYPICAL OPERATION

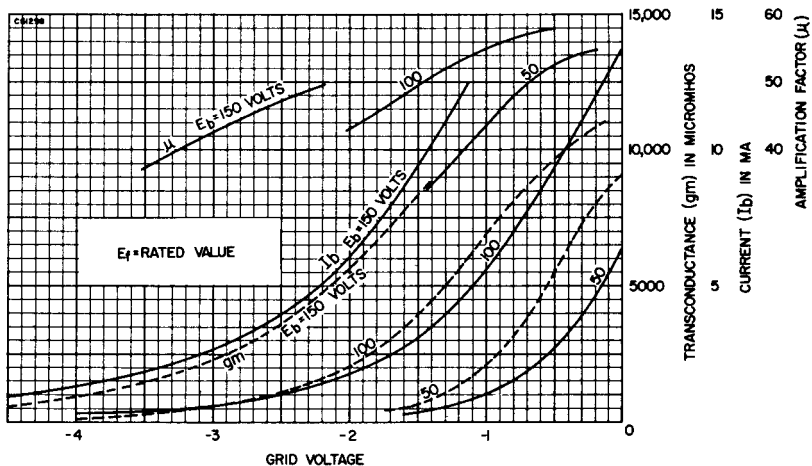
	Oscillator Section No. 1	R-F Amp. Section No. 2
Class A1 Amplifier		
Plate Voltage.....	100	135 Volts
Grid Voltage.....	-1.0	-1.2 Volts
Plate Current.....	5.3	10 Ma
Transconductance.....	6800	13,000 μmhos
Amplification Factor.....	55	70
Plate Resistance (approx.).....	8000	5400 Ohms
E_c for $I_b = 20 \mu\text{A}$ (Approx.).....	-4.4	— Volts
E_c for $G_m = 150 \mu\text{mhos}$ (approx.).....	—	-5.5 Volts
E_c for $G_m = 1500 \mu\text{mhos}$ (approx.).....	—	-2.8 Volts

APPLICATION

The Sylvania Types 6JK8, 8JK8, and 17JK8 are dissimilar duo triodes designed especially for FM tuners. They feature a strap frame grid RF amp. and an oscillator mixer in a T-6 1/2 bulb. The design engineer can obtain 40 db of quieting at less than 10 μV signal with simple circuitry.

SYLVANIA TYPES 6JK8, 8JK8, 17JK8 (Cont'd)

AVERAGE TRANSFER CHARACTERISTICS (Section No. 1)



AVERAGE TRANSFER CHARACTERISTICS (Section No.2)

