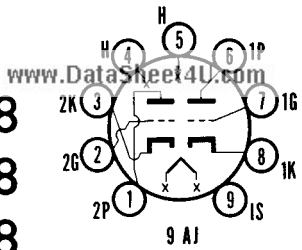


**SYLVANIA TYPES**

**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**

	<b>17JK8 Series</b>	<b>8JK8 Series</b>	<b>6JK8 Parallel</b>
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	Heater Negative with Respect to Cathode		
Total D C and Peak.....	100 Volts		

**DIRECT INTERELECTRODE CAPACITANCES (Shielded)**

	<b>Section No. 1</b>	<b>Section No. 2</b>
Grid to Plate.....	1.4	.60 μμf
Input: g to (h+k+I.S.+E.S.).....	3.0	5.0 μμf
Output: p to (h+k+I.S.+E.S.).....	1.0	4.0 μμf
Heater to Cathode.....	2.8	2.8 μμf
Grid to Grid.....		.003 μμf Max.
Plate to Plate.....		.009 μμf Max.

**RATINGS (Design Maximum Values)**

	<b>Oscillator Section No. 1</b>	<b>R-F Amp. Section No. 2</b>
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**

	<b>Oscillator Section No. 1</b>	<b>R-F Amp. Section No. 2</b>
<b>Class A1 Amplifier</b>		
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
Ec for Ib = 20 μA (Approx.).....	-4.4	— Volts
Ec for Gm = 150 μmhos (approx.).....	—	-5.5 Volts
Ec for Gm = 1500 μmhos (approx.).....	—	-2.8 Volts

**APPLICATION**

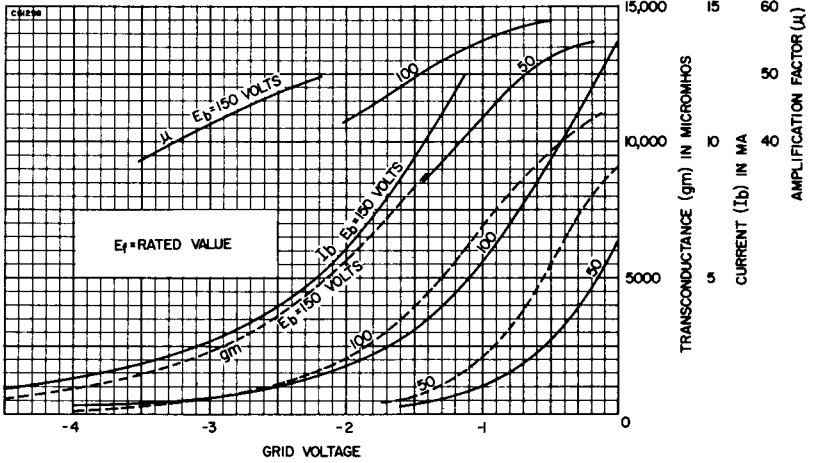
The Sylvania Types 6JK8, 8JK8, and 17JK8 are dissimilar duo triodes designed especially for FM tuners. They feature a strap frame grid RF amp. and an oscillator mixer in a T-6 1/2 bulb. The design engineer can obtain 40 db of quieting at less than 10 μV signal with simple circuitry.

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

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## AVERAGE TRANSFER CHARACTERISTICS

### (Section No. 1)



## AVERAGE TRANSFER CHARACTERISTICS

### (Section No.2)

