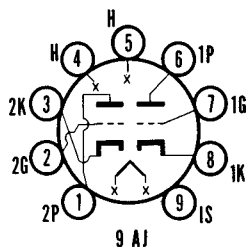


**SYLVANIA TYPES**

**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

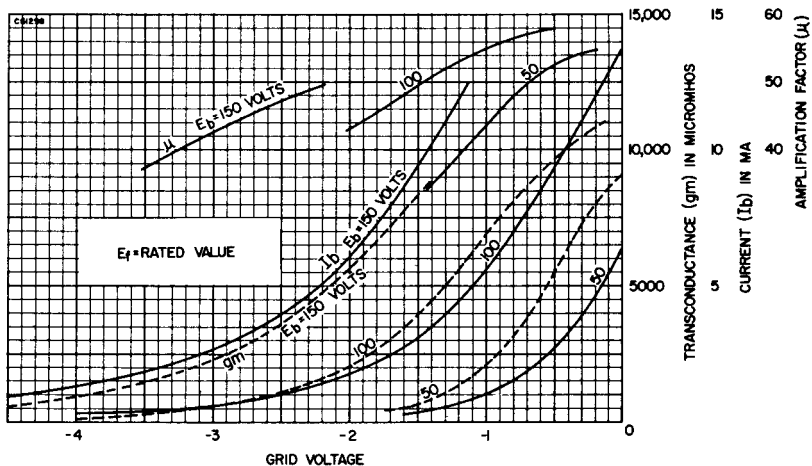
	Oscillator Section No. 1	R-F Amp. Section No. 2
<b>Class A1 Amplifier</b>		
Plate Voltage.....	100	135 Volts
Grid Voltage.....	-1.0	-1.2 Volts
Plate Current.....	5.3	10 Ma
Transconductance.....	6800	13,000 $\mu\text{mhos}$
Amplification Factor.....	55	70
Plate Resistance (approx.).....	8000	5400 Ohms
$E_c$ 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  $\mu\text{V}$  signal with simple circuitry.

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

## AVERAGE TRANSFER CHARACTERISTICS (Section No. 1)



## AVERAGE TRANSFER CHARACTERISTICS (Section No.2)

