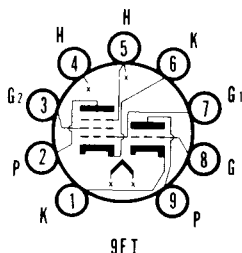


SYLVANIA TYPE 6CH8
MEDIUM MU TRIODE
SHARP CUTOFF PENTODE



MECHANICAL DATA

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

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage.....	6.3 Volts
Heater Current.....	450 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode	
Total D C and Peak.....	200 Volts Max.
Heater Positive with Respect to Cathode	
D C.....	100 Volts Max.
Total D C and Peak.....	200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Triode Section	
Grid to Plate.....	1.6 $\mu\mu\text{f}$
Grid to (k+h+g3+I.S.).....	1.9 $\mu\mu\text{f}$
Plate to (k+h+g3+I.S.).....	1.6 $\mu\mu\text{f}$
Pentode Section	
Grid No. 1 to Plate.....	.025 $\mu\mu\text{f}$ Max.
Grid No. 1 to (k+h+g3+g2+I.S.).....	7.0 $\mu\mu\text{f}$
Plate to (k+h+g3+g2+I.S.).....	2.25 $\mu\mu\text{f}$
Coupling	
Triode Grid to Pentode Plate.....	0.005 $\mu\mu\text{f}$
Pentode Grid No. 1 to Triode Plate.....	0.02 $\mu\mu\text{f}$
Pentode Plate to Triode Plate.....	0.04 $\mu\mu\text{f}$

6CH8 (Cont'd)

MAXIMUM RATINGS (Design Center Values)

	Triode Section	Pentode Section
Plate Voltage	300	300 Volts
Grid No. 3 Voltage		0 Volts
Grid No. 2 Supply Voltage		300 Volts
Grid No. 2 Voltage	See 6AM8 Rating Chart	
Positive Grid No. 1 Voltage	0	0 Volts
Plate Dissipation	2.6	2.0 Watts
Grid No. 2 Input:		
For Grid No. 2 Voltages up to 150 Volts	0.5	0.5 Watt
For Grid No. 2 Voltages Between 150 and 300 Volts	See 6AM8 Rating Chart	
Grid No. 1 Circuit Resistance ¹		
Fixed Bias	0.5	0.25 Megohm
Cathode Bias	1.0	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Supply Voltage	200	200 Volts
Grid No. 3 Voltage		0 Volt
Grid No. 2 Supply Voltage		150 Volts
Grid No. 1 Voltage	-6	Volts
Cathode Bias Resistor		180 Ohms
Plate Current	13	9.5 Ma
Grid No. 2 Current		2.8 Ma
Transconductance	3300	6200 μ mhos
Amplification Factor	19	
Plate Resistance (approx.)	5750	300,000 Ohms
Grid No. 1 Voltage for $I_b = 10 \mu$ a (approx.)	-19	-8 Volts

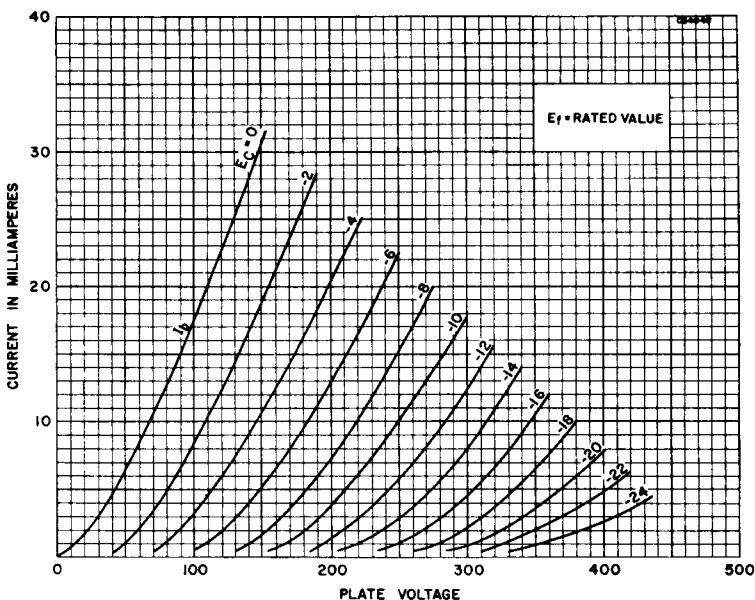
NOTE:

1. If either section is operating at maximum rated conditions, the Grid No. 1 circuit resistance for both sections should not exceed the stated values.

APPLICATION

The Sylvania Type 6CH8 has a medium mu triode and sharp cutoff pentode contained in one envelope. The pentode section may be used as a reactance tube, IF, video or AGC amplifier. The triode section may be used as a low frequency oscillator, sync clipper, sync separator or phase splitter.

AVERAGE PLATE CHARACTERISTICS (TRIODE SECTION)



6CH8 (Cont'd)

AVERAGE PLATE CHARACTERISTICS (PENTODE SECTION)

