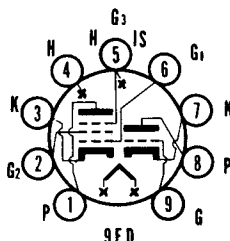




SYLVANIA TYPE 6AZ8 **MEDIUM MU TRIODE** **SEMI-REMOTE CUTOFF PENTODE**



MECHANICAL DATA

Bulb.....	T-6 $\frac{1}{2}$
Base.....	E9-1, Small Button 9-Pin
Outline.....	6-2
Basing.....	9ED
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.....	1.7 μ f
Grid to (h + k + I.S.).....	2.0 μ f
Plate to (h + k + I.S.).....	1.7 μ f
Pentode Section	
Grid No. 1 to Plate.....	0.02 μ f Max.
Grid No. 1 to (h + k + g2 + g3 + I.S.).....	6.5 μ f
Plate to (h + k + g2 + g3 + I.S.).....	2.2 μ f
Coupling	
Triode Grid to Pentode Plate.....	0.027 μ f Max.
Pentode Grid No. 1 to Triode Plate.....	0.020 μ f Max.
Pentode Plate to Triode Plate.....	0.045 μ f Max.

MAXIMUM RATINGS (Design Center Values)

	Triode Section	Pentode Section
Plate Voltage.....	300	300 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 Watt
For Grid No. 2 Voltages Between 150 and 300 Volts.....	See 6AM8 Rating Chart	
Maximum Circuit Values¹		
Cathode Bias.....	1.0	1.0 Megohms
Fixed Bias.....	0.5	0.25 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier	Triode Section	Pentode² Section
Plate Supply Voltage.....	200	200 Volts
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.....		3 Ma
Transconductance.....	3300	6000 μ mhos
Amplification Factor.....	19	
Plate Resistance (approx.).....	5750	300,000 Ohms
Grid No. 1 Voltage (approx.) for Plate Current of 10 μ a.....	-19	Volts
Grid No. 1 Voltage (approx.) for Transconductance of 100 μ mhos.....		-12.5 Volts

NOTES:

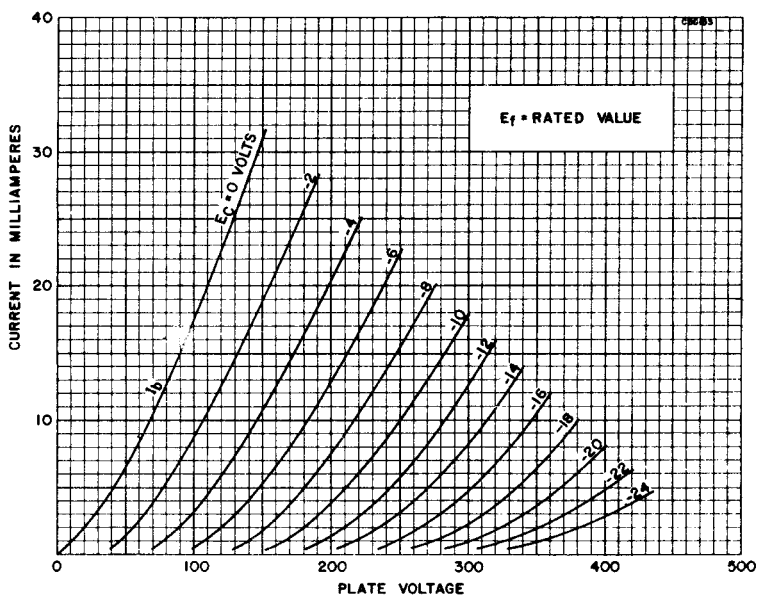
1. If either unit is operated at maximum rated conditions, Grid No. 1 Circuit Resistances for both units should not exceed the stated values.
2. The heater-cathode voltage should not exceed the value of the operating cathode bias because the voltage between the heater and cathode is also applied between the cathode and Grid No. 3. The net result is the make Grid No. 3 Negative with respect to cathode with possible change in tube characteristics.

APPLICATION

The 6AZ8 is a miniature medium mu triode and semi-remote cutoff pentode designed for application in television receivers. The triode is well suited for operation as a sync separator, sync clipper, low frequency oscillator and phase splitter. The pentode may be used as an i f amplifier, video amplifier, a g c amplifier, and rectance tube.

6AZ8 (Cont'd)

AVERAGE PLATE CHARACTERISTICS (TRIODE SECTION)



AVERAGE PLATE CHARACTERISTICS (PENTODE SECTION)

