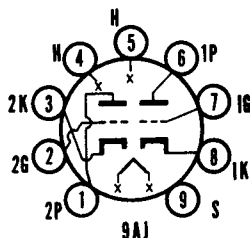




**SYLVANIA TYPE 6BC8
4BC8**
MEDIUM MU DUO TRIODE



MECHANICAL DATA

Bulb.....	T-6 $\frac{1}{2}$
Base.....	E9-1, Small Button, 9-Pin
Outline.....	6-2
Basing.....	9AJ
Cathode.....	Coated Unipotential
Mounting Position.....	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

	6BC8	4BC8
Heater Voltage.....	6.3	4.2 Volts
Heater Current.....	400	600 Ma
Heater Warm-up Time (See Appendix).....		11 Seconds
Heater-Cathode Voltage (Design Center Values)		
Heater Positive with Respect to Cathode		
D C Component.....	100	100 Volts Max
Total D C and Peak.....	200	200 Volts Max
Heater Negative with Respect to Cathode ¹		
Total D C and Peak.....	200	200 Volts Max

DIRECT INTERELECTRODE CAPACITANCES (Shielded)²

	Section 1	Section 2
Grid to Plate.....	1.4	1.4 μf
Input.....	2.5	2.5 μf
Output.....	1.3	1.3 μf
Heater to Cathode.....	2.3	2.3 μf
Plate Section No. 1 to Plate Section No. 2.....	0.015	μf
Grid Section No. 1 to Grid Section No. 2.....	0.007	μf Max

RATINGS (Design Center Values—Each Section)

Plate Voltage ¹	250 Volts Max
Plate Dissipation.....	2 Watts Max
Cathode Current.....	20 Ma Max
Grid Circuit Resistance.....	0.5 Megohm Max

CHARACTERISTICS—(Each Section)

Class A₁ Amplifier	
Plate Voltage.....	150 Volts
Grid Voltage.....	0 Volts
Cathode Bias Resistor.....	220 Ohms
Plate Current.....	10 Ma
Transconductance.....	6200 μmhos
Amplification Factor.....	35
Grid Voltage for $g_m = 50 \mu\text{mhos}$ (approx.).....	13 Volts

6BC8

4BC8 (Cont'd)

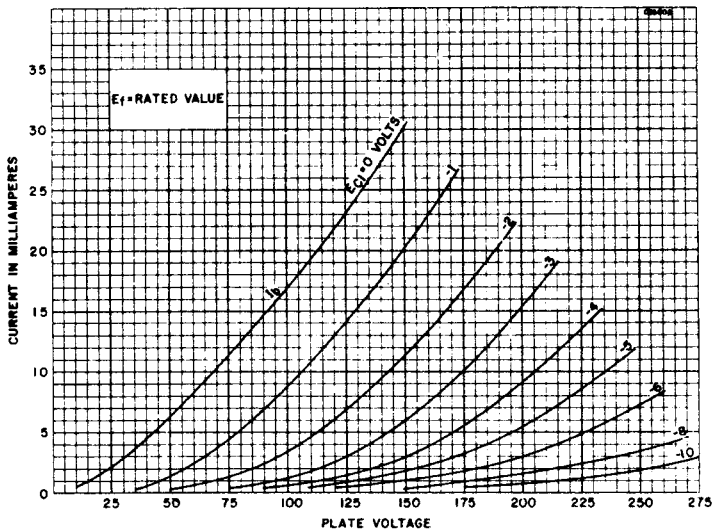
NOTES:

1. This rating may be as high as 300 volts max. under cutoff conditions when the tube is used as a cascode amplifier and the two sections are connected in series.
2. Shield No. 315.

APPLICATION

The 4BC8 and 6BC8 are twin triodes intended for application as VHF cascode amplifiers in television receivers. The 4BC8 features a 600 Ma heater and controlled heater warm-up time for operation in television receivers employing a series heater string.

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

