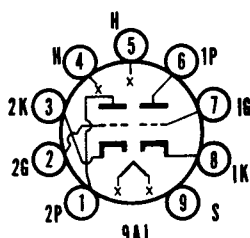




SYLVANIA TYPE 6BC8

4BC8

MEDIUM MU DUO TRIODE



MECHANICAL DATA

Bulb.....	T-6 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 $\mu\mu\text{f}$
Input.....	2.5	2.5 $\mu\mu\text{f}$
Output.....	1.3	1.3 $\mu\mu\text{f}$
Heater to Cathode.....	2.3	2.3 $\mu\mu\text{f}$
Plate Section No. 1 to Plate Section No. 2.....	0.015	$\mu\mu\text{f}$
Grid Section No. 1 to Grid Section No. 2.....	0.007	$\mu\mu\text{f}$ 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)

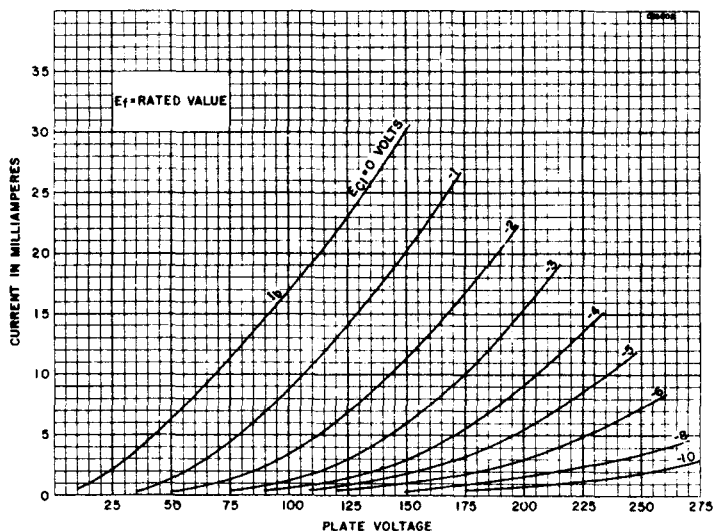
NOTES:

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 V H F 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

