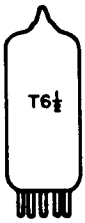
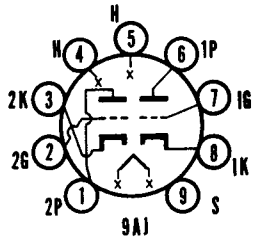


SYLVANIA TYPE 6BC8
4BC8

MEDIUM MU DUO TRIODE



MECHANICAL DATA

Bulb	T-6½
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 μμf
Input	2.5	2.5 μμf
Output	1.3	1.3 μμf
Heater to Cathode	2.3	2.3 μμf
Plate Section No. 1 to Plate Section No. 2	0.015	μμf
Grid Section No. 1 to Grid Section No. 2	0.007	μμf 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 A_1 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 μmhos (approx.)	13 Volts

6BC8
4BC8 (Cont'd)

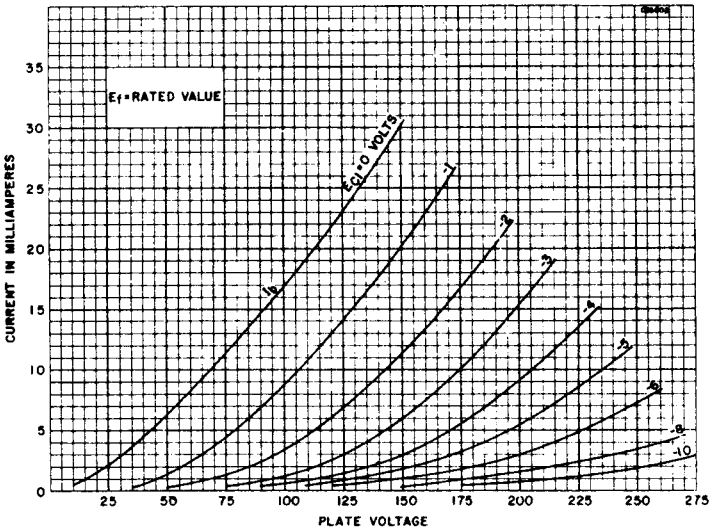
NOTES:

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