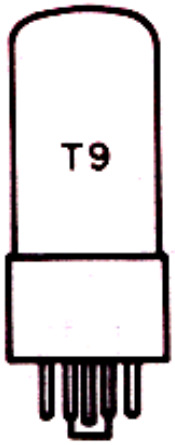
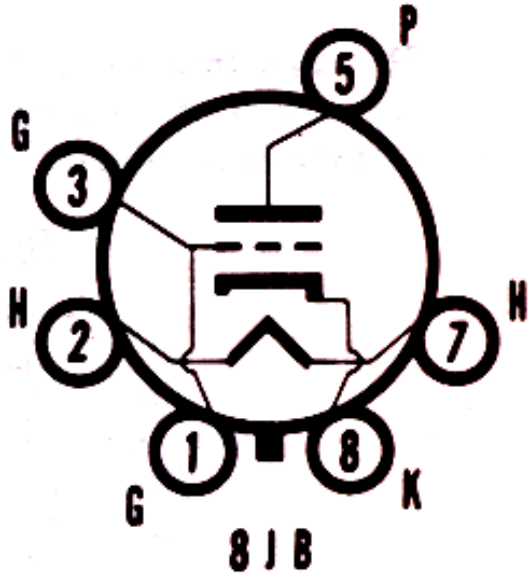


SYLVANIA TYPE 6CK4

POWER TRIODE



MECHANICAL DATA

Bulb	T-9
Base	B6-60, Short Intermediate-Shell Octal, 6-Pin
Outline	9-43
Basing	8JB
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts
Heater Current	1250 Ma
Heater-Cathode Voltage (Design-Maximum 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

Grid to Plate	6.5 $\mu\mu$f
Input: g to (h+k)	8.0 $\mu\mu$f
Output: p to (h+k)	1.8 $\mu\mu$f

6CK4 (Cont'd)

RATINGS[1] (Design-Maximum Values)

Vertical Deflection Amplifier[2]

D C Plate Voltage	550 Volts Max.
Peak Positive Pulse Plate Voltage (Abs. Max.)	2000 Volts
Peak Negative Pulse Grid Voltage	250 Volts Max.
Plate Dissipation[3]	12.0 Watts Max.
Average Cathode Current	100 Ma Max.
Peak Cathode Current	350 Ma Max.
Grid Circuit Resistance	
Self Bias	2.2 Megohms Max.

AVERAGE CHARACTERISTICS

Plate Voltage	250 Volts
Grid No. 1 Voltage	−28 Volts
Plate Current	40 Ma
Transconductance	5500 μmhos
Amplification Factor	6.6
Plate Resistance (approx.)	1200 Ohms
Grid Voltage for Ib = 0.5 Ma	−50 Volts
Plate Current at Ec = −38 Vdc	10 Ma
Zero-Bias Plate Current: Eb = 100 V, Ec = 0 (Instantaneous values)	125 Ma

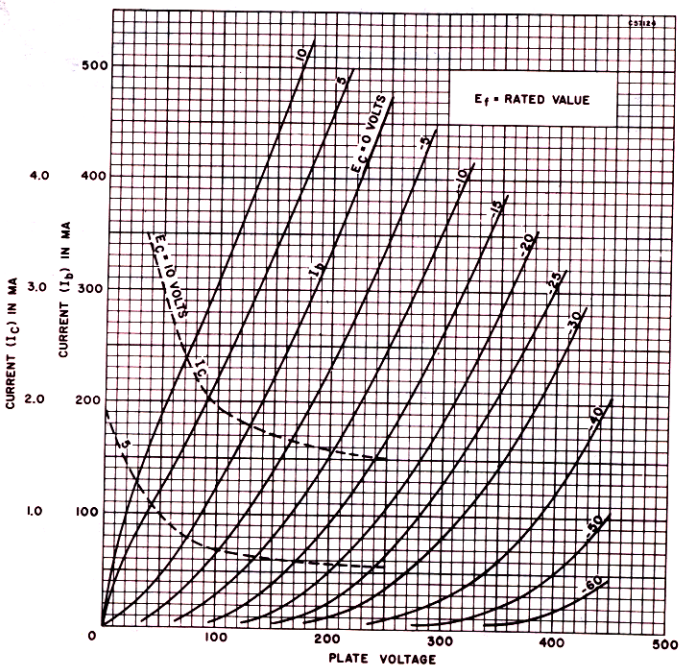
NOTES:

1. Design-maximum ratings are limiting values of operating and environmental conditions applicable to a bogey electron device of a specified type as defined by its published data, and should not be exceeded under the worst conditions. These values are chosen by the device manufacturer to provide acceptable serviceability of the device, taking responsibility for the effects of changes in operating conditions due to variations in device characteristics. The equipment manufacturer should design so that initially and throughout life no design-maximum value for the intended service is exceeded with a bogey device under the worst probable operating conditions with respect to supply voltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, and environmental conditions.
2. For operation in a 525-line, 30-frame system as described in "Standards of Good Engineering Practice for Television Stations; Federal Communications Commission." The duty cycle of the voltage pulse must not exceed 15% of one scanning cycle.
3. In stages operating with grid-leak bias, an adequate bias resistor or other suitable means is required to protect the tube in the absence of excitation.

APPLICATION

The Sylvania Type 6CK4 is a low-mu triode featuring high zero-bias plate current. It is designed primarily for vertical-deflection amplifier service in television receivers.

AVERAGE PLATE CHARACTERISTICS



6CK4 (Cont'd)

AVERAGE TRANSFER CHARACTERISTICS