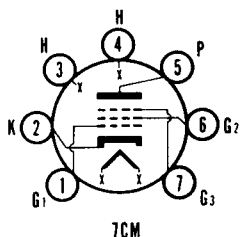


# SYLVANIA TYPE 6DC6

SEMI-REMOTE PENTODE



## MECHANICAL DATA

Bulb.....	T-5 $\frac{1}{2}$
Base.....	E7-1, Miniature Button 7-Pin
Outline.....	5-2
Basing.....	7CM
Cathode.....	Coated Unipotential
Mounting Position.....	Any

## ELECTRICAL DATA

### HEATER CHARACTERISTICS

Heater Voltage.....	6.3 Volts
Heater Current.....	300 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)

Grid No. 1 to Plate.....	0.02 $\mu\text{mf}$ Max.
Input.....	6.5 $\mu\text{mf}$
Output.....	2.0 $\mu\text{mf}$

### RATINGS (Design Center Values)

Plate Voltage.....	300 Volts Max.
Grid No. 2 Supply Voltage.....	300 Volts Max.
Grid No. 2 Voltage.....	See 6AM8 Rating Chart
Grid No. 3 Voltage.....	0 Volts Max.
Grid No. 1 Voltage.....	0 Volts Max.
Plate Dissipation.....	2 Watts Max.
Grid No. 2 Input.....	0.5 Watt Max.
Grid No. 1 Circuit Resistance	
Fixed Bias.....	0.25 Megohm Max.
Self Bias.....	1.0 Megohm Max.

### CHARACTERISTICS AND TYPICAL OPERATION

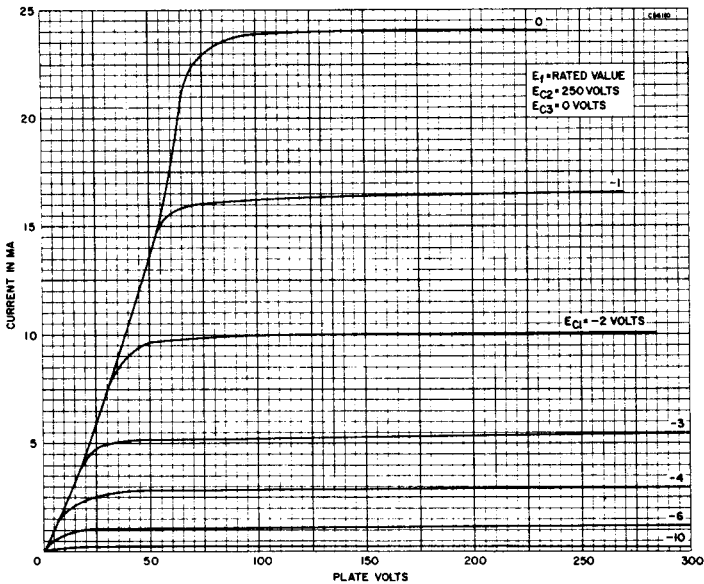
Plate Voltage.....	200 Volts
Grid No. 3.....	Connected to Cathode at Socket
Grid No. 2 Voltage.....	150 Volts
Cathode Bias Resistor.....	180 Ohms
Plate Current.....	9 Ma
Grid No. 2 Current.....	3 Ma
Plate Resistance (approx.).....	0.5 Megohm
Transconductance.....	5500 $\mu\text{mhos}$
Grid No. 1 Bias (approx.) for gm = 50 $\mu\text{mhos}$ .....	-12.5 Volts

## APPLICATION

The Sylvania Type 6DC6 is a semi-remote cutoff pentode contained in a T-5 $\frac{1}{2}$  bulb. It is designed for service in the IF stages of color and monochrome television receivers and may be used in the tuners of such sets as R-F amplifiers.

# 6DC6 (Cont'd)

## AVERAGE PLATE CHARACTERISTICS



## AVERAGE TRANSFER CHARACTERISTICS

