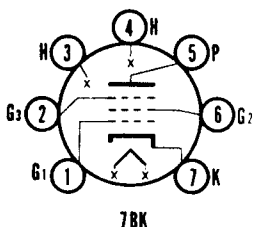




# SYLVANIA TYPE 12AC6

Remote Cutoff Pentode



## MECHANICAL DATA

Bulb.....	T-5½
Base.....	E7-1, Miniature Button 7-Pin
Outline.....	5-2
Basing.....	7BK
Cathode.....	Coated Unipotential
Mounting Position.....	Any

## ELECTRICAL DATA

### HEATER CHARACTERISTICS

Heater Voltage <sup>1</sup> .....	12.6 Volts
Heater Current.....	150 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode.....	30 Volts Max.
Heater Positive with Respect to Cathode.....	30 Volts Max.

### DIRECT INTERELECTRODE CAPACITANCES

	Shielded <sup>2</sup>	Unshielded
Grid No. 1 to Plate.....	.004	.005 μμf
Input.....	4.3	4.3 μμf
Output.....	5.0	5.0 μμf

### RATINGS (Design Center Values)

Plate Voltage.....	30 Volts Max.
Grid No. 2 Voltage.....	30 Volts Max.
Cathode Current.....	20 Ma Max.
Grid No. 1 Circuit Resistance.....	10 Megohms Max.

### CHARACTERISTICS AND TYPICAL OPERATION

#### Class A<sub>1</sub> Amplifier

Plate Voltage.....	12.6 Volts
Grid No. 3 Voltage (Connected to Cathode at Socket).....	0 Volts
Grid No. 2 Voltage.....	12.6 Volts
Grid No. 1 Voltage <sup>3</sup> .....	
Grid No. 1 Resistor.....	2.2 Megohms
Plate Current.....	550 μa
Grid No. 2 Current.....	200 μa
Transconductance <sup>4</sup> .....	730 μmhos
Plate Resistance (approx.).....	0.5 Megohm
Grid No. 1 Voltage for G <sub>m</sub> = 10 μmhos (approx.), Ec3 = 0.....	-5.2 Volts
Grid No. 3 Voltage for G <sub>m</sub> = 10 μmhos (approx.), Ec1 = 0.....	-3.7 Volts

### NOTES:

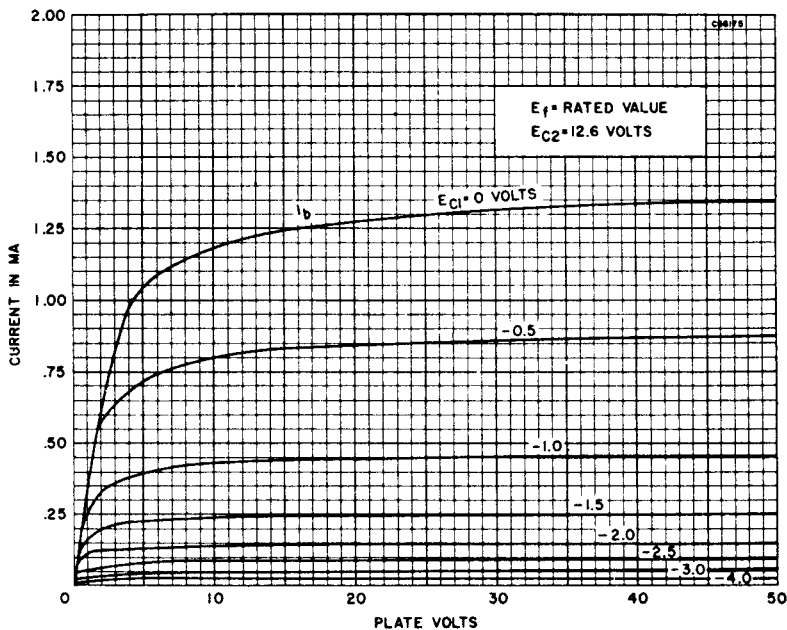
1. This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.
2. Shield No. 316.
3. Average contact potential is developed across the specified resistor.
4. Measured from Grid No. 1 to plate.

## APPLICATION NOTES

The Sylvania Type 12AC6 is a miniature remote cutoff pentode intended for use as an RF or IF amplifier. It is designed for operation where the heater, plate and screen voltages are supplied directly from a 12 volt automotive storage battery.

# SYLVANIA TYPE 12AC6 (Cont'd)

## AVERAGE PLATE CHARACTERISTICS



## AVERAGE TRANSFER CHARACTERISTICS

