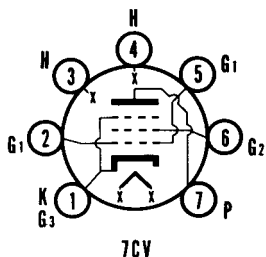




SYLVANIA TYPE 60FX5

POWER PENTODE



MECHANICAL DATA

Bulb.....	T-5 $\frac{1}{2}$
Base.....	E-7-1, Miniature Button 7-Pin
Outline.....	5-3
Basing.....	7CV
Cathode.....	Coated Unipotential
Mounting Position.....	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS AND RATINGS

Heater Voltage.....	60 Volts
Heater Current ¹	100 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 (Unshielded)

Grid No. 1 to Plate.....	0.65 $\mu\mu\text{f}$
Input: g1 to (k+g3+g2+h).....	17 $\mu\mu\text{f}$
Output: p to (k+g3+g2+h).....	9 $\mu\mu\text{f}$

RATINGS (Design Maximum Values)

Class A1 Amplifier

Plate Voltage.....	150 Volts Max.
Grid No. 2 Voltage.....	130 Volts Max.
Plate Dissipation.....	5.2 Watts Max.
Grid No. 2 Dissipation.....	2 Watts Max.
Grid No. 1 Circuit Resistance	
Fixed Bias.....	0.1 Megohm Max.
Cathode Bias.....	0.5 Megohm Max.
Bulb Temperature (At Hottest Point).....	225° Cent. Max.

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage.....	110 Volts
Grid No. 2 Voltage.....	115 Volts
Cathode Resistor.....	62 Ohms
Peak AF Grid No. 1 Voltage.....	3 Volts
Zero-Signal Plate Current.....	36 Ma
Max.-Signal Plate Current.....	35 Ma
Zero-Signal Grid No. 2 Current.....	10 Ma
Max.-Signal Grid No. 2 Current.....	12 Ma
Load Resistance.....	3000 Ohms
Max.-Signal Power Output.....	1.3 Watts
Total Harmonic Distortion.....	8 Percent

NOTES:

1. For series operation of heaters, equipment should be designed that at normal supply voltage bogey tubes will operate at this value of heater current.
2. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided by the rated heater current.
3. Heater voltage supply variations shall be restricted to maintain heater current within the specified values.

APPLICATION

The Sylvania Type 60FX5 is a miniature power pentode designed for service as an audio power amplifier. It provides low heat dissipation through the use of a 100 ma heater.