

**MECHANICAL DATA**

Bulb . . . . .	T-5 1/2
Base . . . . .	E7-1, Miniature Button 7-Pin
Outline . . . . .	5-3
Basing . . . . .	7CV
Cathode . . . . .	Coated Unipotential
Mounting Position . . . . .	Any

**ELECTRICAL DATA**

**HEATER CHARACTERISTICS**

Heater Voltage . . . . .	25.0 Volts
Heater Current . . . . .	150 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode Total DC and Peak . . . . .	200 Volts Max.
Heater Positive with Respect to Cathode DC . . . . .	100 Volts Max.
Total DC and Peak . . . . .	200 Volts Max.

**DIRECT INTERELECTRODE CAPACITANCE (Unshielded)**

Grid to Plate . . . . .	0.57 $\mu\text{f}$
Input . . . . .	12.0 $\mu\text{f}$
Output . . . . .	6.0 $\mu\text{f}$

**RATINGS (Design Center Values)**

Plate Voltage . . . . .	135 Volts Max.
Grid No. 2 Voltage . . . . .	117 Volts Max.
Plate Dissipation . . . . .	4.5 Watts Max.
Grid No. 2 Dissipation . . . . .	1.0 Watt Max.
Grid No. 1 Circuit Resistance	
Fixed Bias . . . . .	0.1 Megohm Max.
Cathode Bias . . . . .	0.5 Megohm Max.

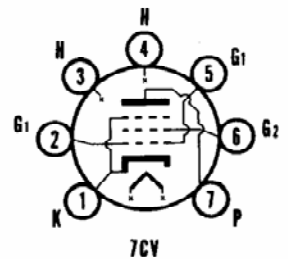
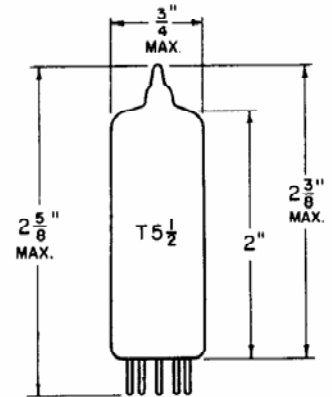
**CHARACTERISTICS AND TYPICAL OPERATION (Single Tube)**

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

Plate Voltage . . . . .	110 Volts
Grid No. 2 Voltage . . . . .	110 Volts
Grid No. 1 Voltage . . . . .	-7.5 Volts
Peak AF Grid No. 1 Voltage . . . . .	7.5 Volts
Zero Signal Plate Current . . . . .	36 Ma
Maximum Signal Plate Current . . . . .	37 Ma
Zero Signal Grid No. 2 Current . . . . .	3.0 Ma
Maximum Signal Grid No. 2 Current . . . . .	7.0 Ma
Plate Resistance (approx.) . . . . .	16000 Ohms
Transconductance . . . . .	5800 $\mu\text{mhos}$
Load Resistance . . . . .	2,500 Ohms
Maximum Signal Power Output . . . . .	1.2 Watts
Total Harmonic Distortion (approx.) . . . . .	10 Percent

**QUICK REFERENCE DATA**

The Sylvania Type 25F5 is a miniature beam power amplifier featuring high sensitivity and high efficiency at plate and screen voltage normally available in ac/dc receivers.



**SYLVANIA ELECTRIC  
PRODUCTS INC.**

**RADIO TUBE DIVISION  
EMPORIUM, PA.**

*Prepared and Released By The  
TECHNICAL PUBLICATIONS SECTION  
EMPORIUM, PENNSYLVANIA*

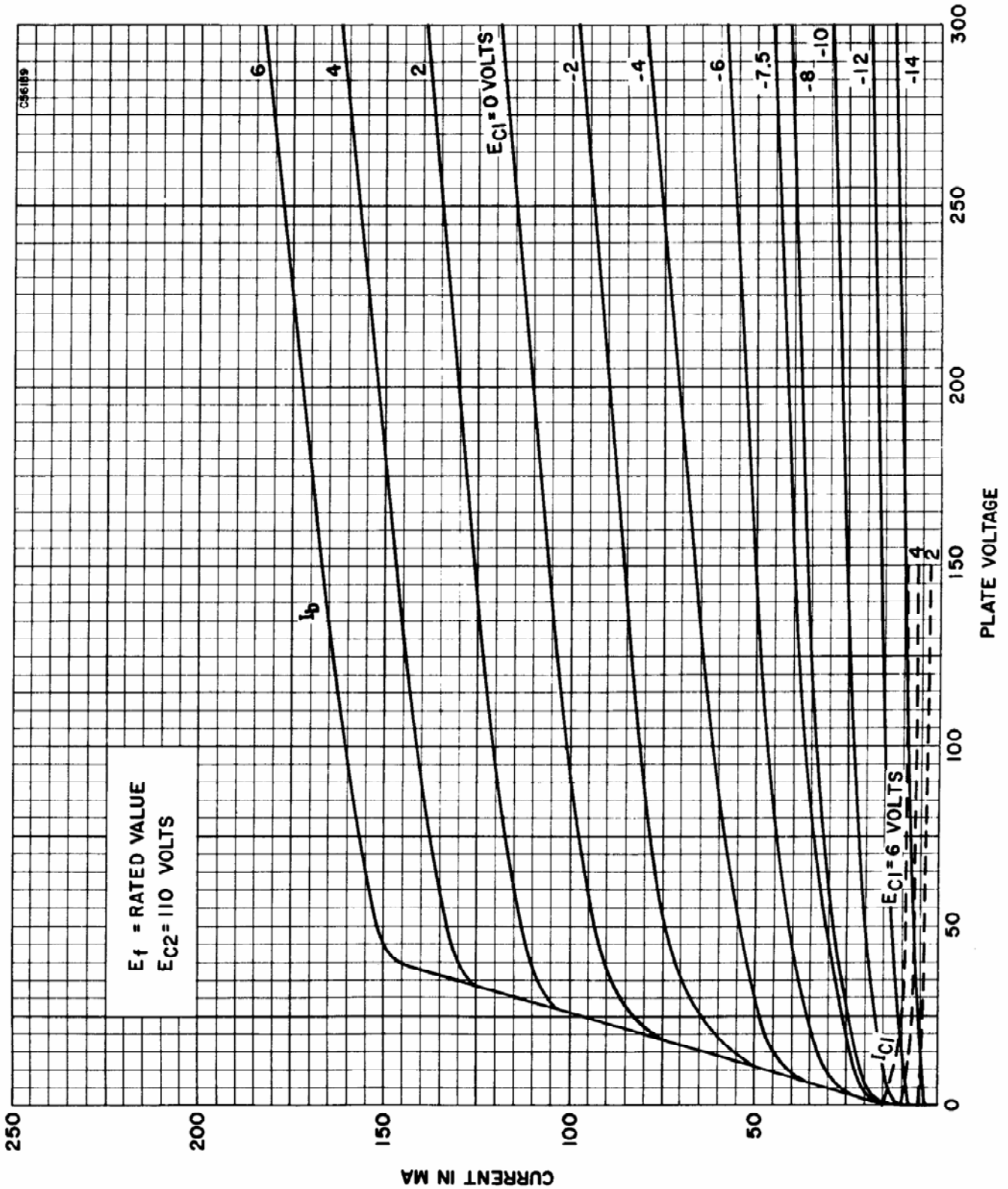
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PAGE 1 OF 5

**Class A<sub>1</sub> Amplifier (two tubes in push-pull)**

Plate Voltage . . . . .	110 Volts
Grid No. 2 Voltage . . . . .	110 Volts
Grid No. 1 Voltage . . . . .	-8.0 Volts
Peak AF Grid to Grid Voltage . . . . .	16 Volts
Zero Signal Plate Current . . . . .	70 Ma
Maximum Signal Plate Current . . . . .	78 Ma
Zero Signal Grid No. 2 Current . . . . .	7.5 Ma
Maximum Signal Grid No. 2 Current . . . . .	13.6 Ma
Load Resistance . . . . .	4500 Ohms
Maximum Signal Power Output . . . . .	2.9 Watts
Total Harmonic Distortion . . . . .	2.6 Percent

AVERAGE PLATE CHARACTERISTICS



## AVERAGE PLATE CHARACTERISTICS

