

MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button 7-Pin
Outline	5-3
Basing	7BZ
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	50 Volts
Heater Current	150 Ma

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid to Plate	0.64 $\mu\mu\text{f}$
Input	13 $\mu\mu\text{f}$
Output	6.5 $\mu\mu\text{f}$

RATINGS (Design Center Values)

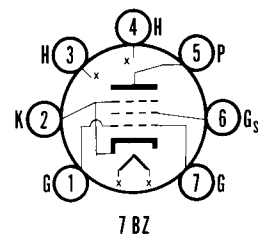
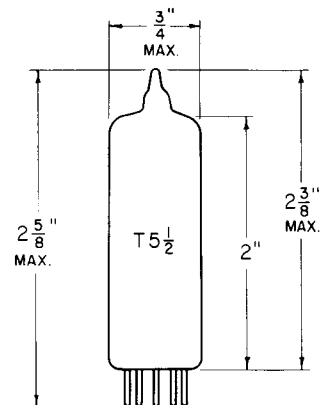
Plate Voltage	135 Volts	Max.
Grid No. 2 Voltage	117 Volts	Max.
Plate Dissipation	5.5 Watts	Max.
Grid No. 2 Dissipation	1.25 Watts	Max.
Heater-Cathode Voltage	180 Volts	Max.
Control Grid Circuit Resistance		
Fixed Bias	0.1 Megohm	Max.
Cathode Bias	0.5 Megohm	Max.

CHARACTERISTICS AND TYPICAL OPERATION (Single Tube)

Class A₁ Amplifier		
Plate Voltage	110 Volts	
Grid No. 2 Voltage	110 Volts	
Grid No. 1 Voltage	-7.5 Volts	
Peak A F Grid No. 1 Voltage	7.5 Volts	
Zero-Signal Plate Current	49 Ma	
Maximum-Signal Plate Current	50 Ma	
Zero-Signal Grid No. 2 Current	4.0 Ma	
Maximum-Signal Grid No. 2 Current	8.5 Ma	
Plate Resistance (approx.)	10,000 Ohms	
Transconductance	7,500 μmhos	
Load Resistance	2,500 Ohms	
Maximum-Signal Power Output	1.9 Watts	
Total Harmonic Distortion (approx.)	9.0 Percent	

QUICK REFERENCE DATA

The Sylvania Type 50B5 is a miniature, beam power amplifier designed for service as the audio power output stage of AC/DC receivers. The Type 50B5 features relatively high power output at low B supply voltages.

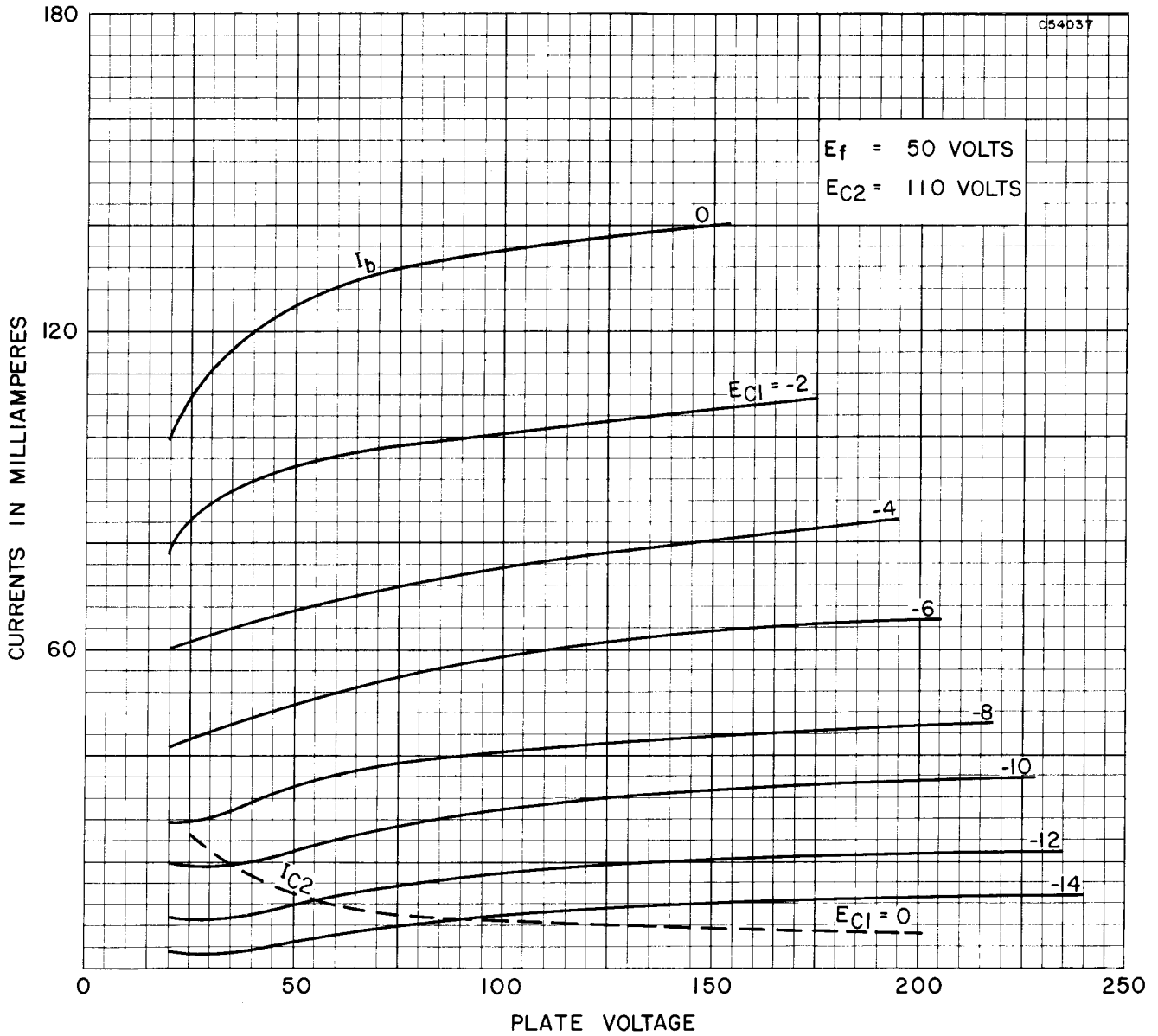


**SYLVANIA ELECTRIC
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RADIO TUBE DIVISION

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AVERAGE PLATE CHARACTERISTICS



AVERAGE OPERATION CHARACTERISTICS

