



6SF7

6SF7

**DIODE—SUPER-CONTROL AMPLIFIER PENTODE**

SINGLE-ENDED METAL TYPE

Heater ■	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances:°		
<i>Pentode Unit</i>		
Grid to Plate	0.004 max.	μf
Input	5.5	μf
Output	6.0	μf
<i>Pentode Grid to Diode</i>	0.002 max.	μf
<i>Pentode Plate to Diode</i>	0.8	μf
Maximum Overall Length	2-5/8"	
Maximum Seated Height	2-1/16"	
Maximum Diameter	1-5/16"	
Bulb	Metal Shell, MT-8	
Base	Small Wafer Octal 8-Pin	
Pin 1—Shell		Pin 5—Diode Plate
Pin 2—Pentode Grid		Pin 6—Pentode Plate
Pin 3—Cathode		Pin 7—Heater
Pin 4—Screen		Pin 8—Heater
Mounting Position	Any	



BOTTOM VIEW (7AZ)

PENTODE UNIT — AMPLIFIER

Plate Voltage	300 max. volts
Screen Voltage	100 max. volts
Screen-Supply Voltage	300 max. volts
Grid Voltage	0 min. volts
Plate Dissipation	3.5 max. watts
Screen Dissipation	0.5 max. watt
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>	
Plate	100 250 volts
Screen	100 100 volts
Grid	-1 -1 volts
Plate Resistance (Approx.)	0.2 0.7 megohm
Transconductance	1975 2050 μ mhos
Grid Bias (Approx.) †	-35 -35 volts
Plate Current	12 12.4 ma.
Screen Current	3.4 3.3 ma.

DIODE UNIT — One

Consideration of this unit is similar to that given under Type 6B8-G with the exception that there is one diode in Type 6SF7. Diode curves shown under Type 6B7 apply to the 6SF7

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

° With shell connected to cathode.

† For transconductance of 10 μmhos.

← Indicates a change.

Dec. 1, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

TENTATIVE DATA

6SF7

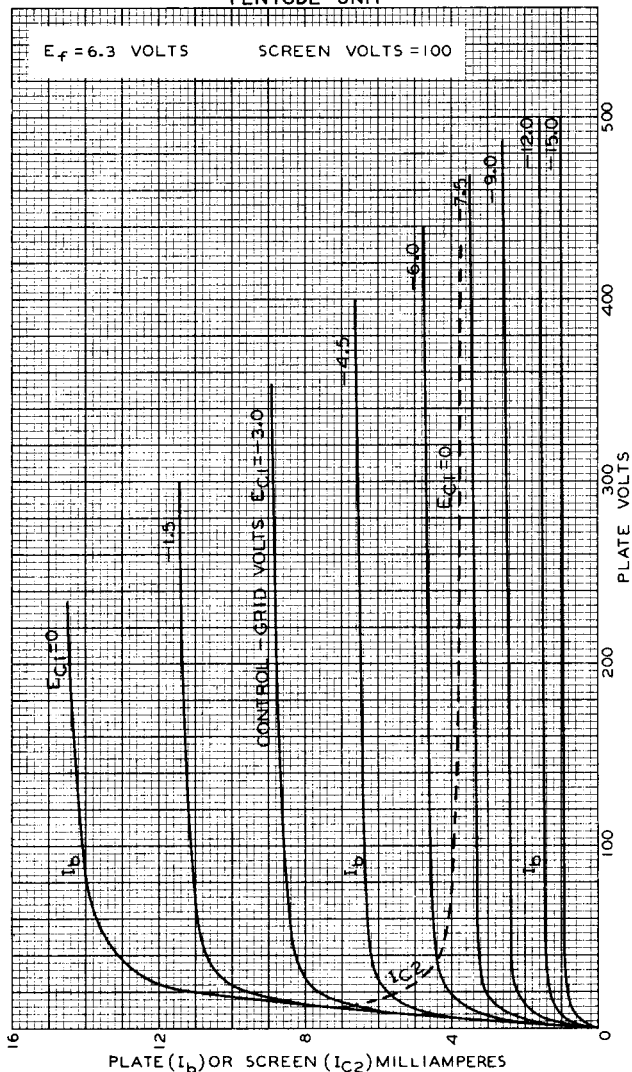


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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT

$E_f = 6.3$ VOLTS

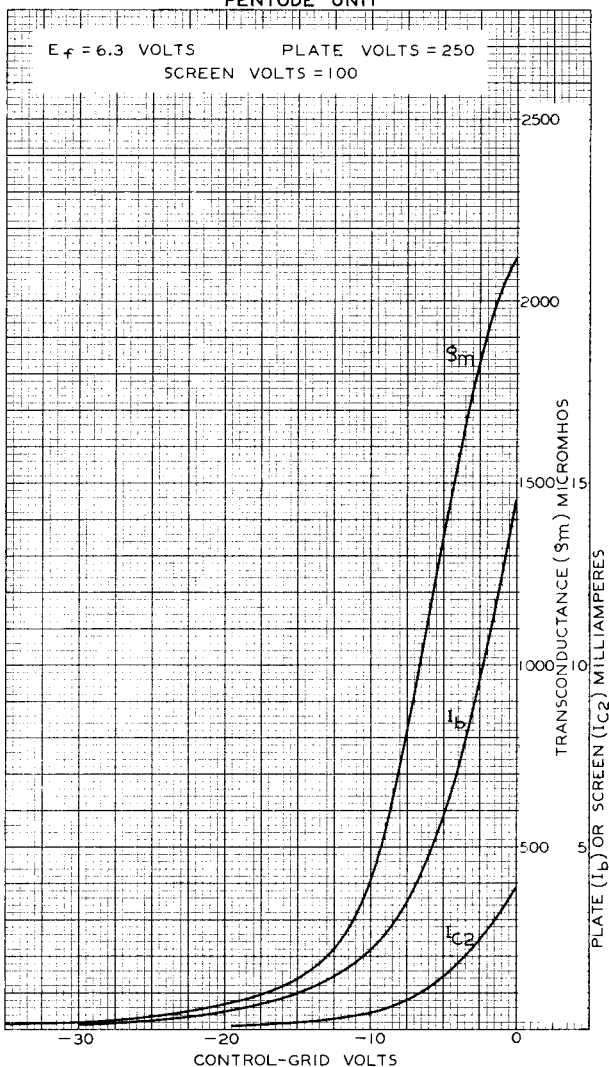
SCREEN VOLTS = 100





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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



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