



6SF7

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**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:^o**Pentode Unit**

Grid to Plate	0.004 max.	μ f
Input	5.5	μ f
Output	6.0	μ f

Pentode Grid to Diode	0.002 max.	μ f
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Pentode Plate to Diode	0.8	μ f
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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

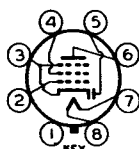
**BOTTOM VIEW (7AZ)****PENTODE UNIT — AMPLIFIER**

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

Typical Operation and Characteristics — Class A₁ Amplifier:

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.
- o With shell connected to cathode.
- † For transconductance of 10 μ mhos.

← Indicates a change.

Dec. 1, 1941

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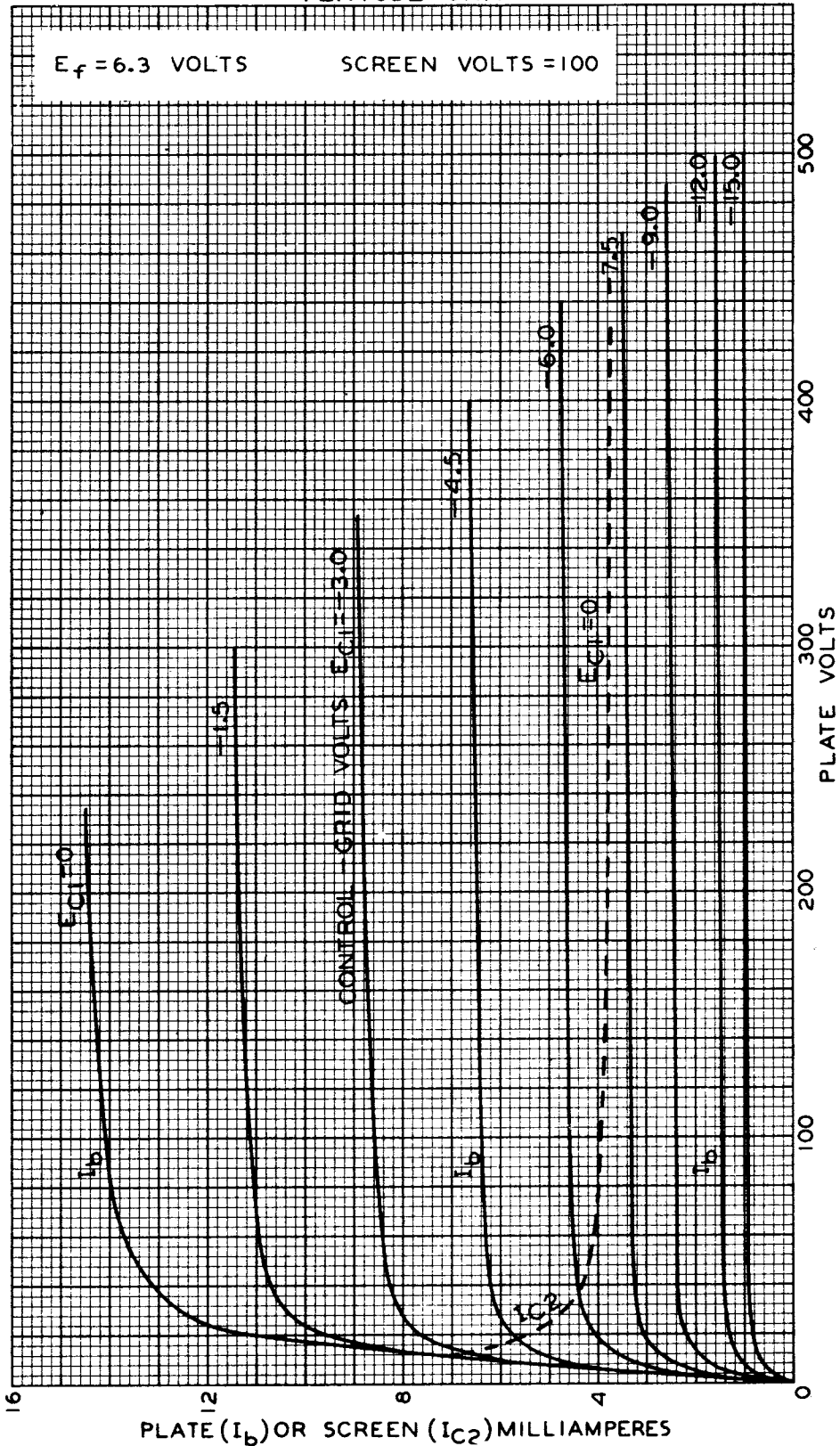
TENTATIVE DATA

6SF7



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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



FEB. 20, 1941

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92C-6254



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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT

