



6AS8

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DIODE-SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage 6.3 ac or dc volts

Current 0.45 amp

Direct Interelectrode Capacitances (Approx.):*

Diode Unit:

Plate to heater and cathode and internal shield	3.0	μf
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Pentode Unit:

Grid No.1 to plate	0.04 max.	μf
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Input	7	μf
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Output	2.2	μf
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Pentode grid to diode plate	0.005 max.	μf
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Pentode plate to diode cathode	0.15 max.	μf
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Pentode plate to diode plate	0.10 max.	μf
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Characteristics, Class A₁:

Plate-Supply Voltage	200	volts
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Grid No.3	Connected to cathode at socket	
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Grid-No.2 Supply Voltage	150	volts
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Cathode-Bias Resistor	180	ohms
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Plate Resistance (Approx.)	300000	ohms
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Transconductance	6200	μmhos
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Grid-No.1 Bias (Approx.) for Plate Current of 10 μamp	-8	volts
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Plate Current	9.5	ma
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Grid-No.2 Current	3	ma
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Mechanical:

Mounting Position	Any
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Maximum Overall Length	2-3/16"
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Maximum Seated Length	1-15/16"
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Length, Base Seat to Bulb Top (Excluding Tip)	1-9/16" $\pm$ 3/32"
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Maximum Diameter	7/8"
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Bulb	T-6-1/2
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Base	Small-Button Noval 9-Pin (JETEC No.E9-1)
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Basing Designation for BOTTOM VIEW	9DS
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Pin 1 - Pentode Grid No.2	Pin 6 - Diode Plate
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Pin 2 - Pentode Grid No.1	Pin 7 - Pentode Grid No.3, Int.Shield
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Pin 3 - Pentode Cathode	Pin 8 - Diode Cathode
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Pin 4 - Heater	Pin 9 - Pentode Plate
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Pin 5 - Heater	
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* With no external shield.

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TENTATIVE DATA

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DIODE—SHARP-CUTOFF PENTODE

PENTODE UNIT—Class A₁ Amplifier

Maximum Ratings, Design—Center Values:

PLATE VOLTAGE	300 max.	volts
GRID—No.3 (SUPPRESSOR) VOLTAGE	0 max.	volts
GRID—No.2 SUPPLY VOLTAGE	300 max.	volts
GRID—No.2 (SCREEN) VOLTAGE	See Rating Curve at front of this Section	

GRID—No.1 (CONTROL—GRID) VOLTAGE:

Positive bias value	0 max.	volts
PLATE DISSIPATION	2.5 max.	watts
GRID—No.2 INPUT	0.5 max.	watt

PEAK HEATER—CATHODE VOLTAGE:

Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 [●] max.	volts

Maximum Circuit Values (For maximum rated conditions):

Grid—No.1—Circuit Resistance:

For cathode—bias operation	1.0 max.	megohm
For fixed—bias operation	0.25 max.	megohm

DIODE UNIT

Maximum Ratings, Design—Center Values:

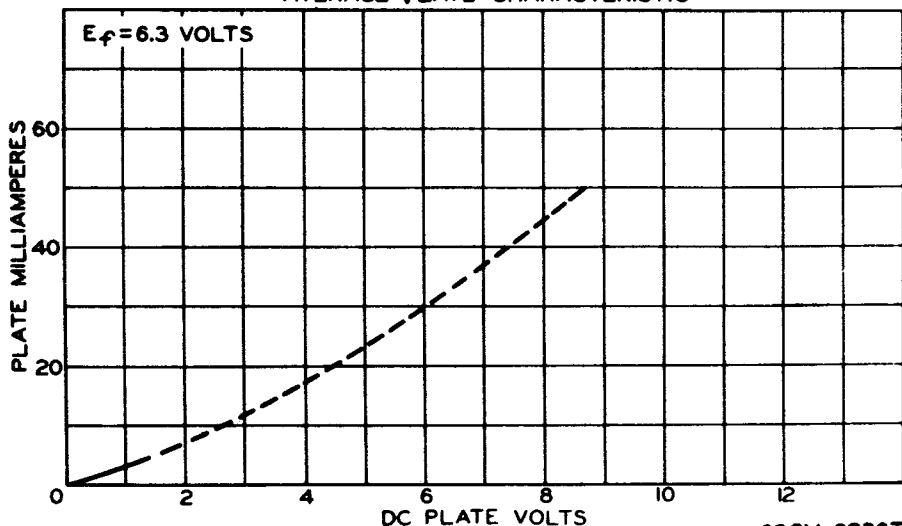
PEAK INVERSE PLATE VOLTAGE	330 max.	volts
PEAK PLATE CURRENT	50 max.	ma
DC PLATE CURRENT	5 max.	ma

PEAK HEATER—CATHODE VOLTAGE:

Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 [●] max.	volts

● The dc component must not exceed 100 volts.

AVERAGE PLATE CHARACTERISTIC



92CM-8236T

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TENTATIVE DATA

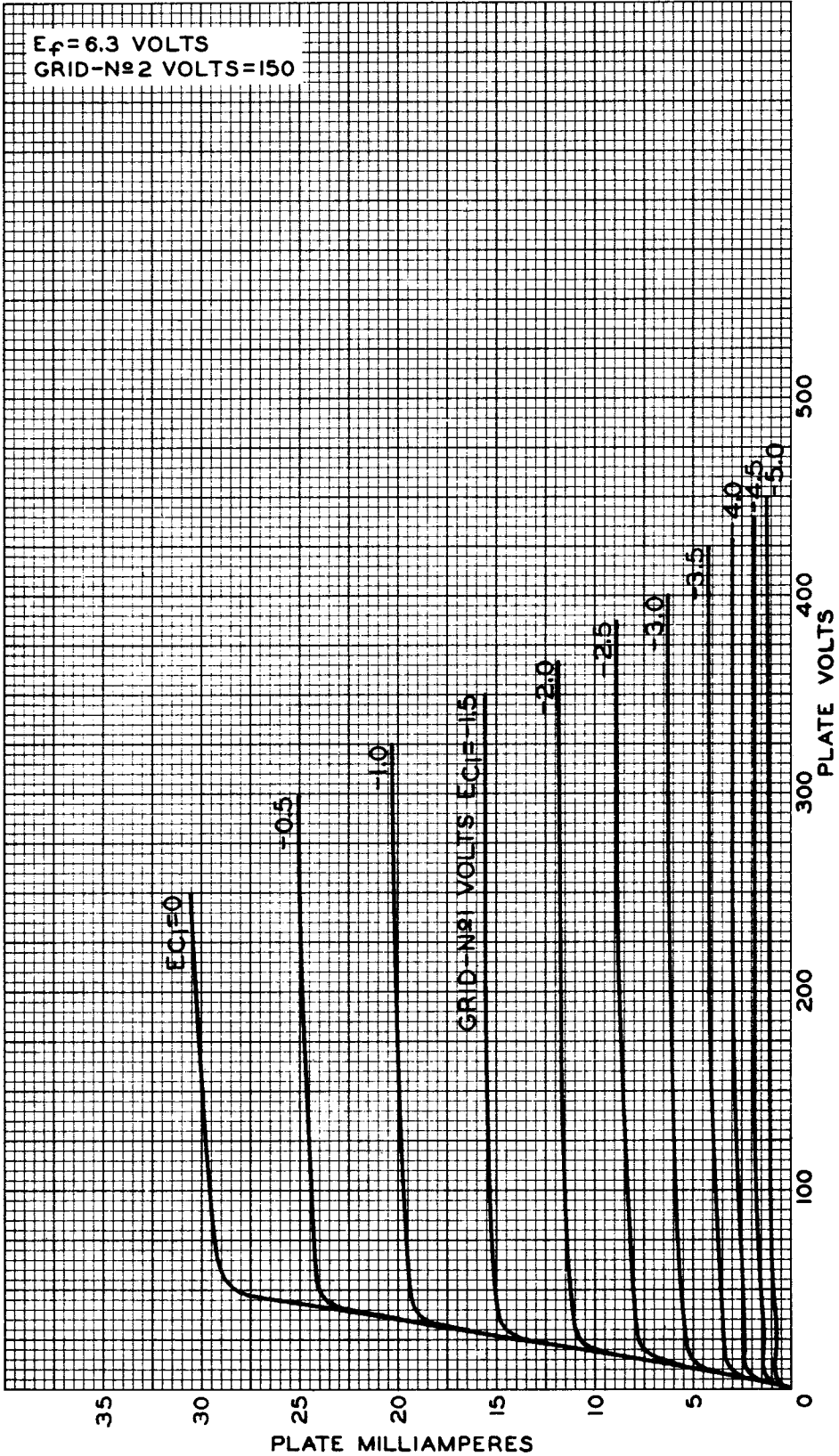
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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



DEC.23,1953

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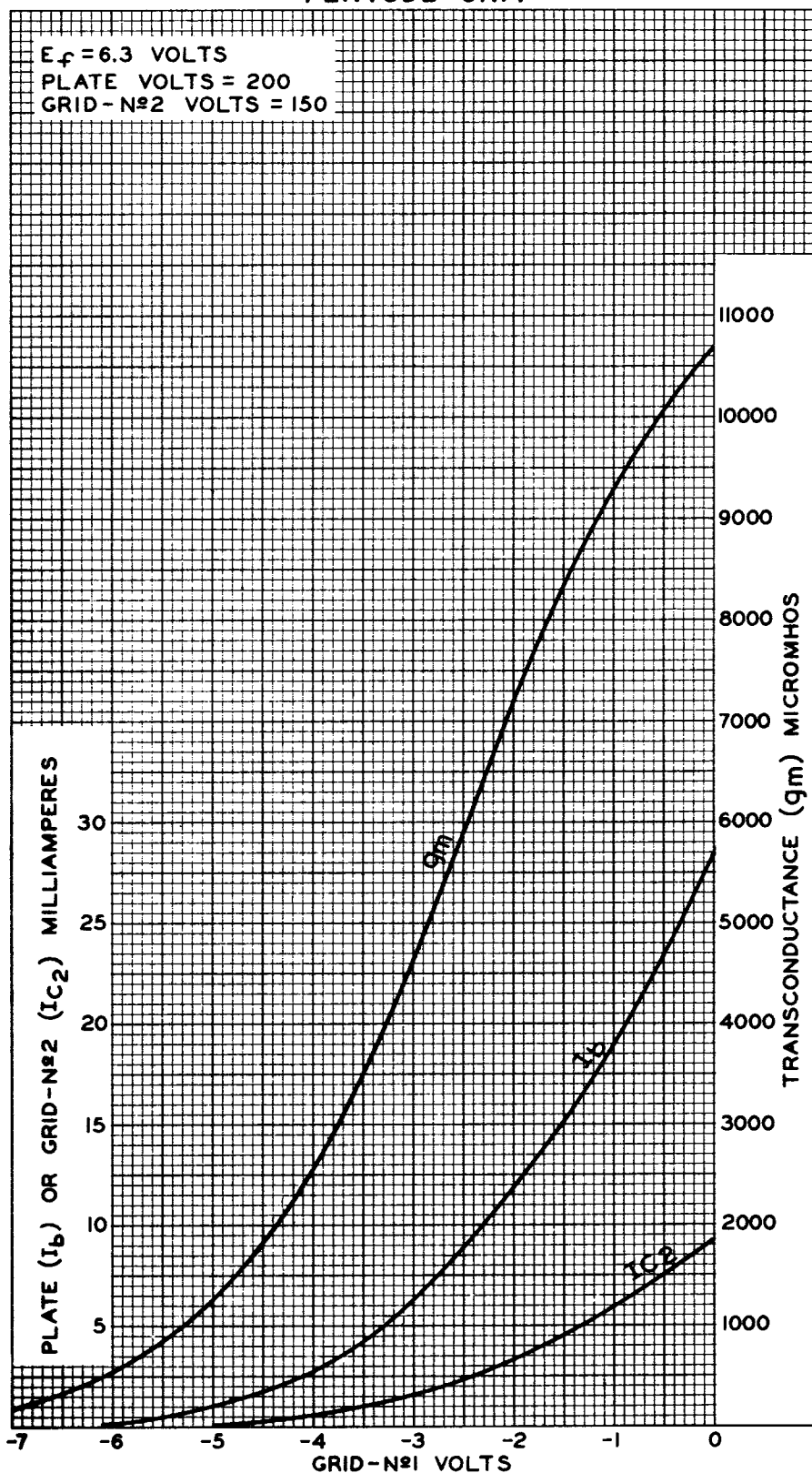
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AVERAGE CHARACTERISTICS
PENTODE UNIT

DEC. 23, 1953

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