

**6AS8****6AS8****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
Input	7	μf
Output	2.2	μf
Pentode grid to diode plate	0.005 max.	μf
Pentode plate to diode cathode	0.15 max.	μf
Pentode plate to diode plate	0.10 max.	μf

Characteristics, Class A₁:

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

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding Tip)	1-9/16" $\pm$ 3/32"
Maximum Diameter	7/8"
Bulb	T-6-1/2
Base	Small-Button Noval 9-Pin (JETEC No.E9-1)
Basing Designation for BOTTOM VIEW	9DS

Pin 1 - Pentode
Grid No.2

Pin 2 - Pentode
Grid No.1

Pin 3 - Pentode
Cathode

Pin 4 - Heater

Pin 5 - Heater



Pin 6 - Diode
Plate

Pin 7 - Pentode
Grid No.3,
Int.Shield

Pin 8 - Diode
Cathode

Pin 9 - Pentode
Plate

* With no external shield.

MAY 3, 1954

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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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:

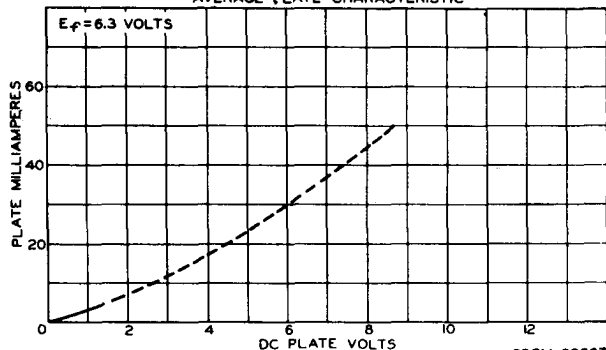
PEAK INVERSE PLATE VOLTAGE	330 max. volts
PEAK PLATE CURRENT	50 max. ma
DC PLATE CURRENT	5 max. ma

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

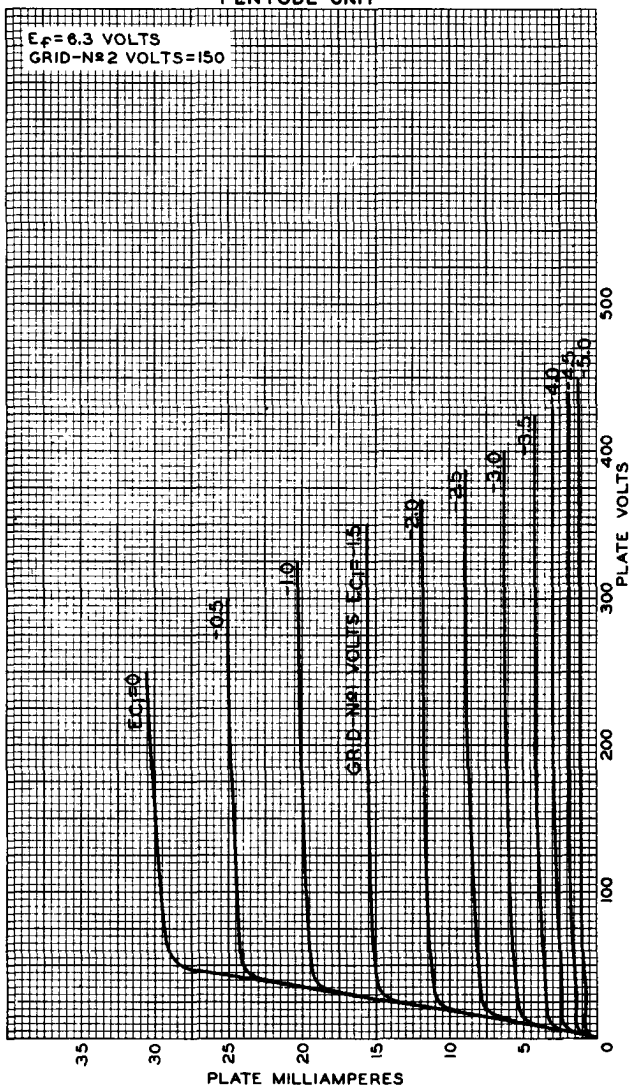
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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



DEC.23,1953

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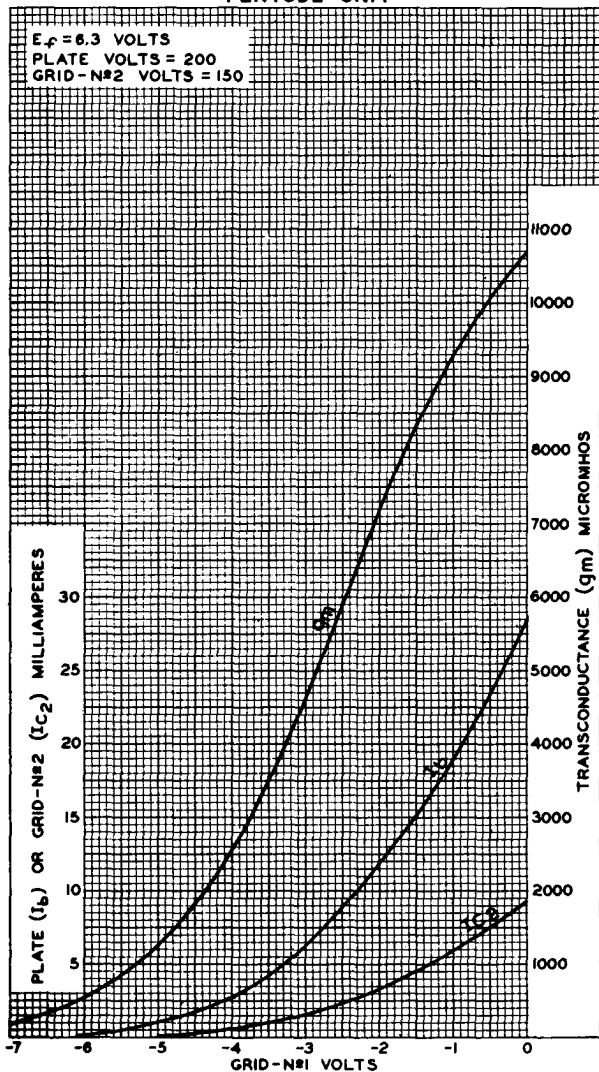
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92CM-8206

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AVERAGE CHARACTERISTICS
PENTODE UNIT

DEC. 23, 1953

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92CM-8208

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