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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	μμf
Pentode Unit:		
Grid No.1 to plate	0.04 max.	μμf
Input	7	μμf
Output	2.2	μμf
Pentode grid to diode plate	0.005 max.	μμf
Pentode plate to diode cathode	0.15 max.	μμf
Pentode plate to diode plate	0.10 max.	μμf

Characteristics, Class A_1:

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" ± 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.

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DIODE–SHARP-CUTOFF PENTODE

PENTODE UNIT - Class A_1 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

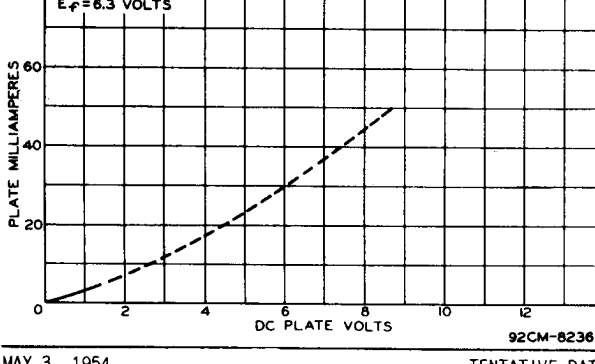
DIODE UNIT

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

MAY 3, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

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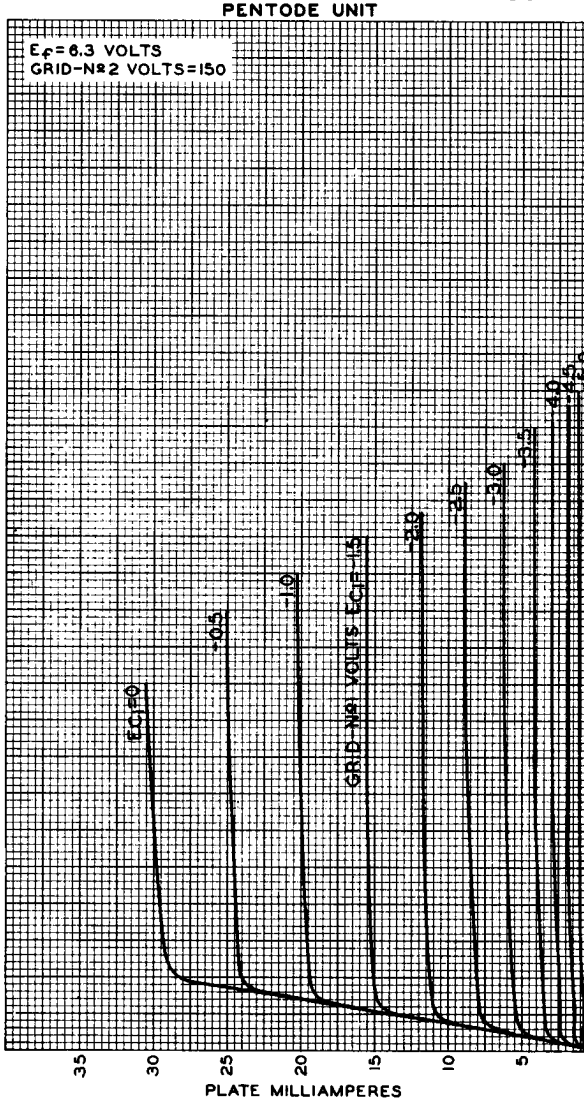
AVERAGE PLATE CHARACTERISTICS

PENTODE UNIT



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AVERAGE CHARACTERISTICS

PENTODE UNIT