



6AM8-A

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DIODE—SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

With heater having controlled warm-up time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC)	6.3	volts
Current	$0.45 \pm 6\%$	amp
Warm-up time (Average.)	11	sec

Direct Interelectrode Capacitances:⁰

Diode Unit:

Plate to cathode and heater	1.8	μmf
Cathode to plate and heater	3	μmf

Pentode Unit:

Grid No.1 to plate.	0.015 max.	μmf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater.	6.5	μmf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater.	2.6	μmf
Pentode grid No.1 to diode plate.	0.006 max.	μmf
Pentode plate to diode cathode.	0.15 max.	μmf
Pentode plate to diode plate	1 max.	μmf

Characteristics, Class A₁ Amplifier (Pentode Unit):

Plate Supply Voltage.	125	volts
Grid No.3	Connected to cathode at socket	
Grid-No.2 Supply Voltage.	125	volts
Cathode Resistor.	56	ohms
Plate Resistance (Approx.)	0.3	megohm
Transconductance.	7800	μmhos
Plate Current	12.5	ma
Grid-No.2 Current	3.2	ma
Grid-No.1 Voltage (Approx.) for plate $\mu\text{a} = 20$	-6	volts
Grid-No.1 Voltage (Approx.) for plate ma. = 2, and cathode resistor (ohms) = 0	-3	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	2-3/16"

← Indicates a change.

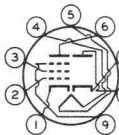


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Maximum Seated Length. 1-15/16"
 Length, Base Seat to Bulb Top (Excluding tip) 1-9/16" $\pm$ 3/32"
 Diameter 0.750" to 0.875"
 Dimensional Outline. See General Section
 Bulb T6-1/2
 Base Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation for BOTTOM VIEW 9CY

Pin 1 - Pentode
 Cathode
 Pin 2 - Pentode
 Grid No.1
 Pin 3 - Pentode
 Grid No.2
 Pin 4 - Heater
 Pin 5 - Heater



Pin 6 - Pentode Plate
 Pin 7 - Diode
 Cathode
 Pin 8 - Diode
 Plate
 Pin 9 - Pentode Grid
 No.3, Internal
 Shield

PENTODE UNIT — Class A₁ Amplifier

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 330 max. volts
 GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE. . . 0 max. volts
 GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . 330 max. volts
 GRID-No.2 VOLTAGE. See Grid-No.2 Input Rating Chart
 at front of Receiving Tube Section
 GRID-No.1 (CONTROL-GRID) VOLTAGE:
 Positive-bias value. 0 max. volts
 GRID-No.2 INPUT:
 For grid-No.2 voltages up to 165 volts 0.55 max. watt
 For grid-No.2 voltages between 165
 and 330 volts. See Grid-No.2 Input Rating Chart
 at front of Receiving Tube Section
 PLATE DISSIPATION. 3.2 max. watts
 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:

Grid-No.1-Circuit Resistance:
 For fixed-bias operation 0.25 max. megohm
 For cathode-bias operation 1 max. megohm

DIODE UNIT

Maximum Ratings, Design-Maximum Values:

DC PLATE CURRENT 5 max. ma

→ Indicates a change.



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PEAK HEATER-CATHODE VOLTAGE:

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

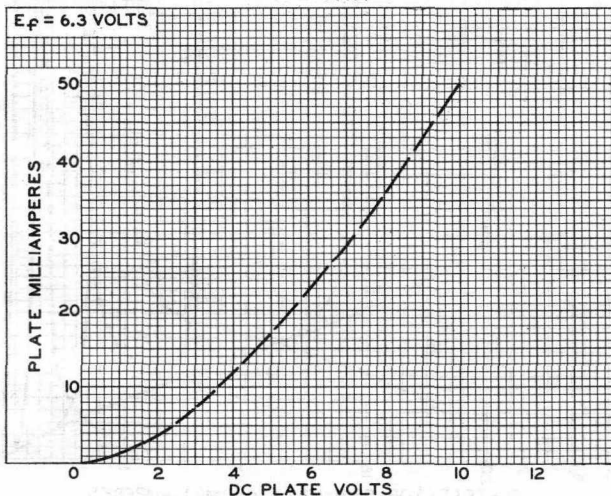
[○] Without external shield.

[▲] The dc component must not exceed 100 volts.

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DATA 2

AVERAGE PLATE CHARACTERISTIC DIODE UNIT

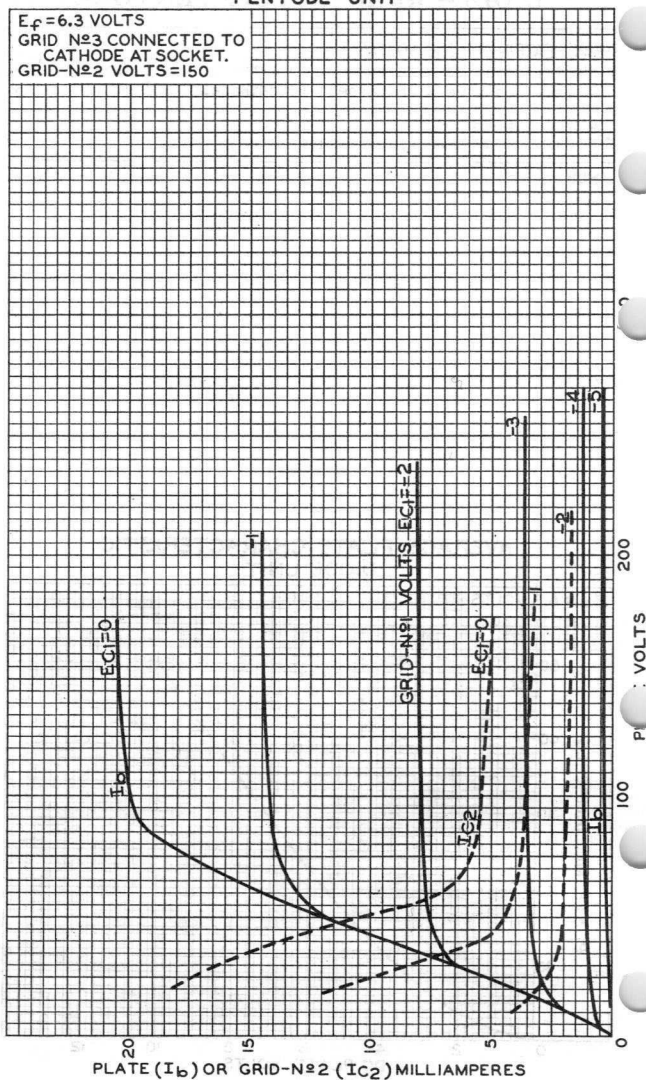


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AVERAGE CHARACTERISTICS PENTODE UNIT

 $E_f = 6.3$ VOLTSGRID N^o3 CONNECTED TO
CATHODE AT SOCKET.GRID-N^o2 VOLTS = 150PLATE (I_b) OR GRID-N^o2 (I_{c2}) MILLIAMPERES

ELECTRON TUBE DIVISION

92CM-8505R1

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



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6AM8-A AVERAGE CHARACTERISTICS PENTODE UNIT

$E_f = 6.3$ VOLTS
PLATE VOLTS = 125
GRID N^o3 CONNECTED TO CATHODE
AT SOCKET.
GRID-N^o2 VOLTS = 125

