



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 ± 6%	amp
Warm-up time (Average.)	11	sec

Direct Interelectrode Capacitances:^o*Diode Unit:*

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

Pentode Unit:

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

Characteristics, Class A₁ Amplifier (Pentode Unit):

Plate Supply Voltage.	125	volts
Grid No.3	<i>Connected to cathode at socket</i>	
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 μa = 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.

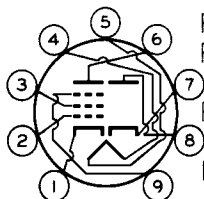


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Maximum Seated Length. 1-15/16"
 Length, Base Seat to Bulb Top (Excluding tip) 1-9/16" $\pm$ 3/32"
 → Diameter 0.750" to 0.875"
 Dimensional Outline. See General Section
 Bulb T6-1/2
 Base Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation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

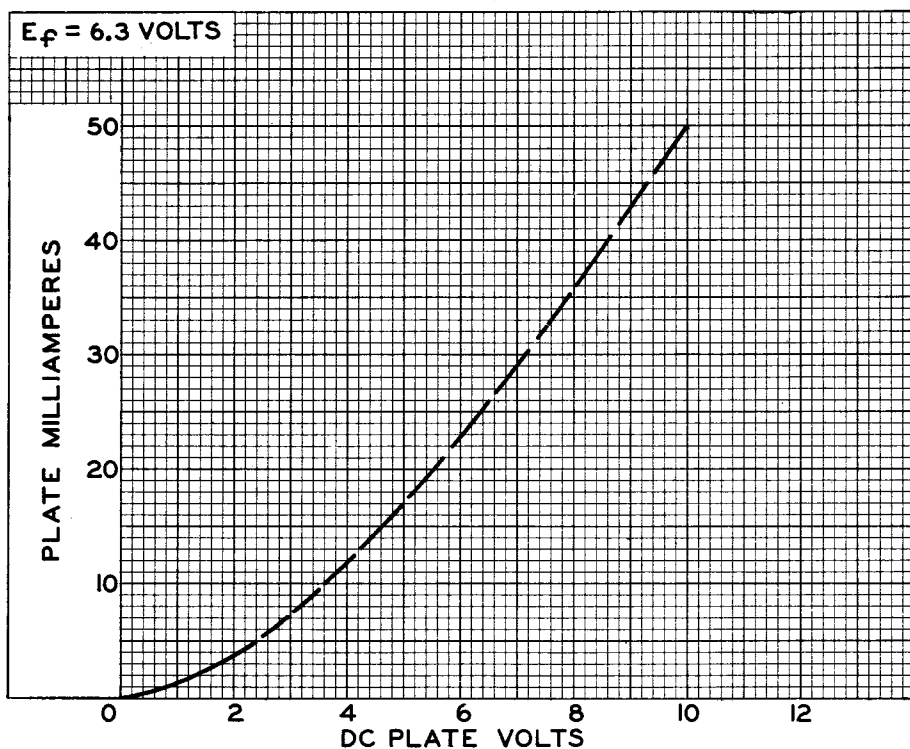
○ Without external shield.

[▲] 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

$E_f = 6.3$ VOLTS
GRID N^o3 CONNECTED TO
CATHODE AT SOCKET.
GRID-N^o2 VOLTS = 150

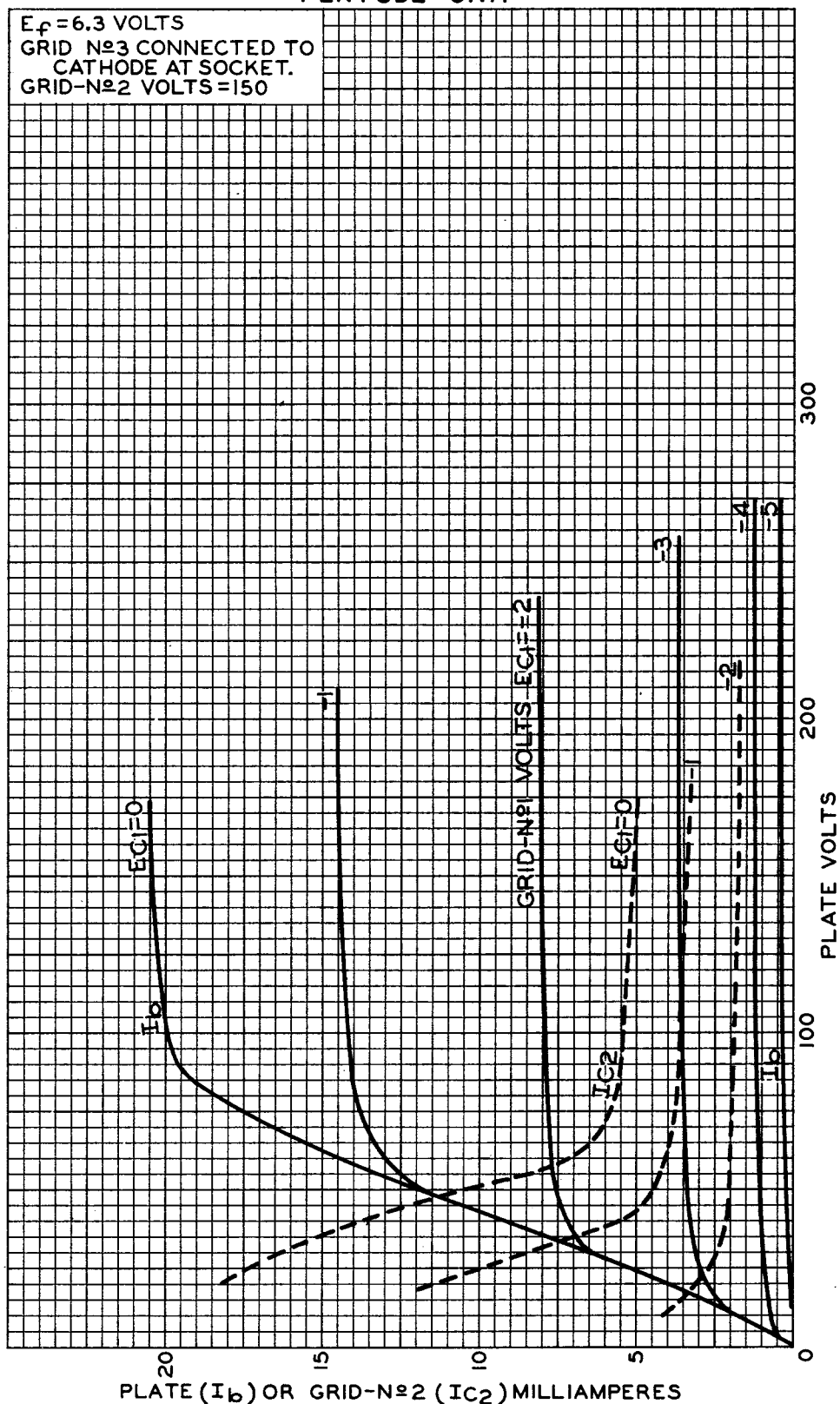


PLATE (I_b) OR GRID-N^o2 (I_{c2}) MILLIAMPERES

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-N₃ CONNECTED TO CATHODE
AT SOCKET.
GRID-N₂ VOLTS = 125

