



6AM8-A

6AM8-A

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	μ f
Cathode to plate and heater	3	μ f

Pentode Unit:

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

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	μ hos
Plate Current	12.5	ma
Grid-No.2 Current	3.2	ma
Grid-No.1 Voltage (Approx.) for plate μ 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.



6AM8-A

DIODE—SHARP-CUTOFF PENTODE

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

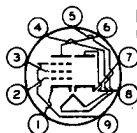
Pin 1—Pentode
 Cathode

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.



6AM8-A

6AM8-A

DIODE—SHARP-CUTOFF PENTODE

PEAK HEATER-CATHODE VOLTAGE:

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

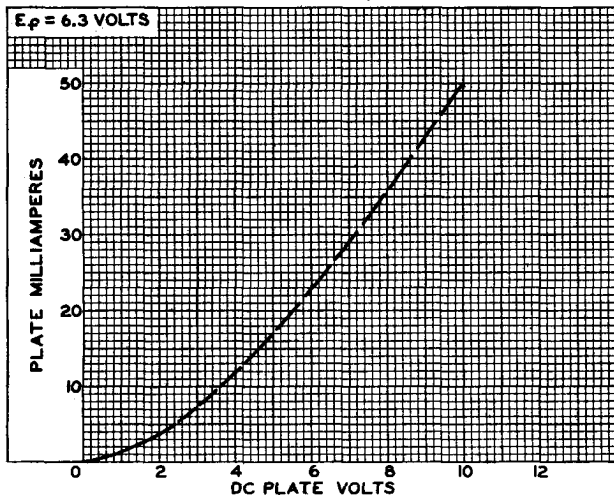
○ Without external shield.

▲ The dc component must not exceed 100 volts.

10-59

DATA 2

AVERAGE PLATE CHARACTERISTIC DIODE UNIT



6AM8-A



6AM8-A

AVERAGE CHARACTERISTICS PENTODE UNIT

$E_f = 6.3$ VOLTS
GRID N $\circ$ 3 CONNECTED TO
CATHODE AT SOCKET.
GRID-N $\circ$ 2 VOLTS=150

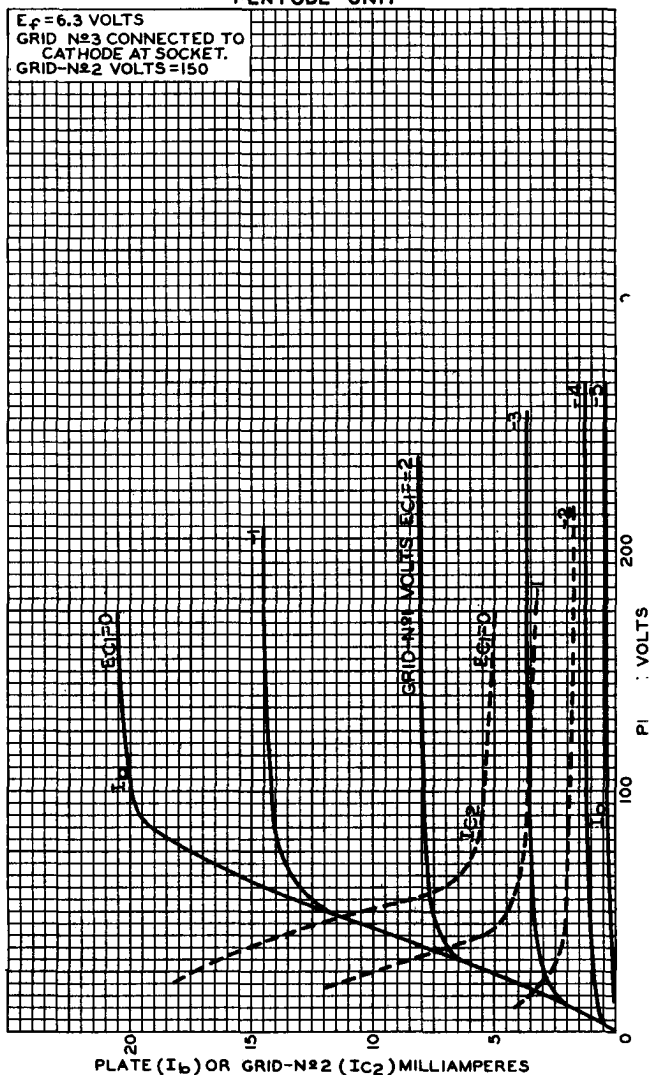


PLATE (I_b) OR GRID-N $\circ$ 2 (I_{c2}) MILLIAMPERES

ELECTRON TUBE DIVISION

92CM-8505RI

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



6AM8-A

6AM8-A AVERAGE CHARACTERISTICS PENTODE UNIT

$E_f = 6.3$ VOLTS
PLATE VOLTS = 125
GRID-N $\#$ 3 CONNECTED TO CATHODE
AT SOCKET.
GRID-N $\#$ 2 VOLTS = 125

