



6AM8

6AM8

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:

	Without External Shield	With External Shield*	
--	-------------------------------	-----------------------------	--

Diode Unit:

Plate to cathode, internal shield, and heater . . .	1.7	2.3	μf
---	-----	-----	---------------

Cathode to plate, internal shield, and heater . . .	4	4	μf
---	---	---	---------------

Pentode Unit:

Grid No.1 to plate	0.015 max.	0.015 max.	μf
----------------------------	------------	------------	---------------

Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	6	6	μf
--	---	---	---------------

Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	2.6	3.4	μf
--	-----	-----	---------------

Pentode grid No.1 to diode plate	0.006 max.	0.005 max.	μf
--	------------	------------	---------------

Pentode plate to diode cathode	0.15 max.	0.15 max.	μf
--	-----------	-----------	---------------

Pentode plate to diode plate	0.1 max.	0.035 max.	μf
--	----------	------------	---------------

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.E1-9)

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

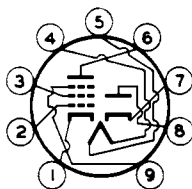
Pin 5 - Heater

Pin 6 - Pentode Plate

Pin 7 - Diode Cathode

Pin 8 - Diode Plate

Pin 9 - Pentode Grid No.3, Internal Shield



* With external shield JETEC No.315 connected to cathode of unit under test.

MAR. 1, 1955

TUBE DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



6AM8

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 (SCREEN) SUPPLY VOLTAGE.	300	max.	volts
GRID-No.2 VOLTAGE.	<i>See Grid-No.2 Input Rating Chart at front of Receiving Tube Section</i>		
GRID-No.1 (CONTROL-GRID) VOLTAGE:			
Positive bias value.	0	max.	volts
PLATE DISSIPATION.	2.8	max.	watts
GRID-No.2 INPUT:			
For grid-No.2 voltages up to 150 volts	0.5	max.	watt
For grid-No.2 voltages between 150 and 300 volts.	<i>See Grid-No.2 Input Rating Chart at front of Receiving Tube Section</i>		
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 [▲]	max.	volts

Typical Operation and Characteristics:

Plate-Supply Voltage	200	volts
Grid No.3. <i>Connected to cathode at socket</i>		
Grid-No.2 Supply Voltage	150	volts
Cathode-Bias Resistor.	120	ohms
Plate Resistance (Approx.)	600000	ohms
Transconductance	7000	μmhos
Grid-No.1 Voltage (Approx.) for		
plate current of 10 μamp	-8	volts
Plate Current.	11.5	ma
Grid-No.2 Current.	2.7	ma

Maximum Circuit Values:

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:

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.

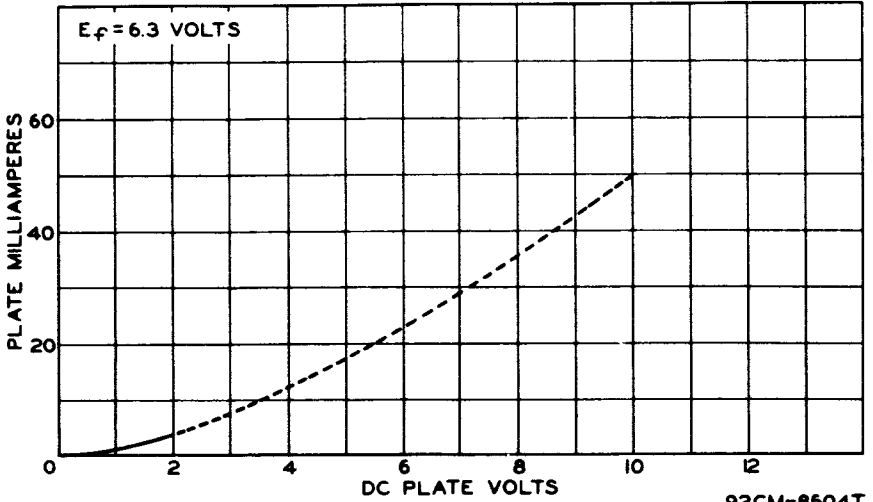


6AM8

6AM8

DIODE—SHARP-CUTOFF PENTODE

AVERAGE PLATE CHARACTERISTIC
DIODE UNIT

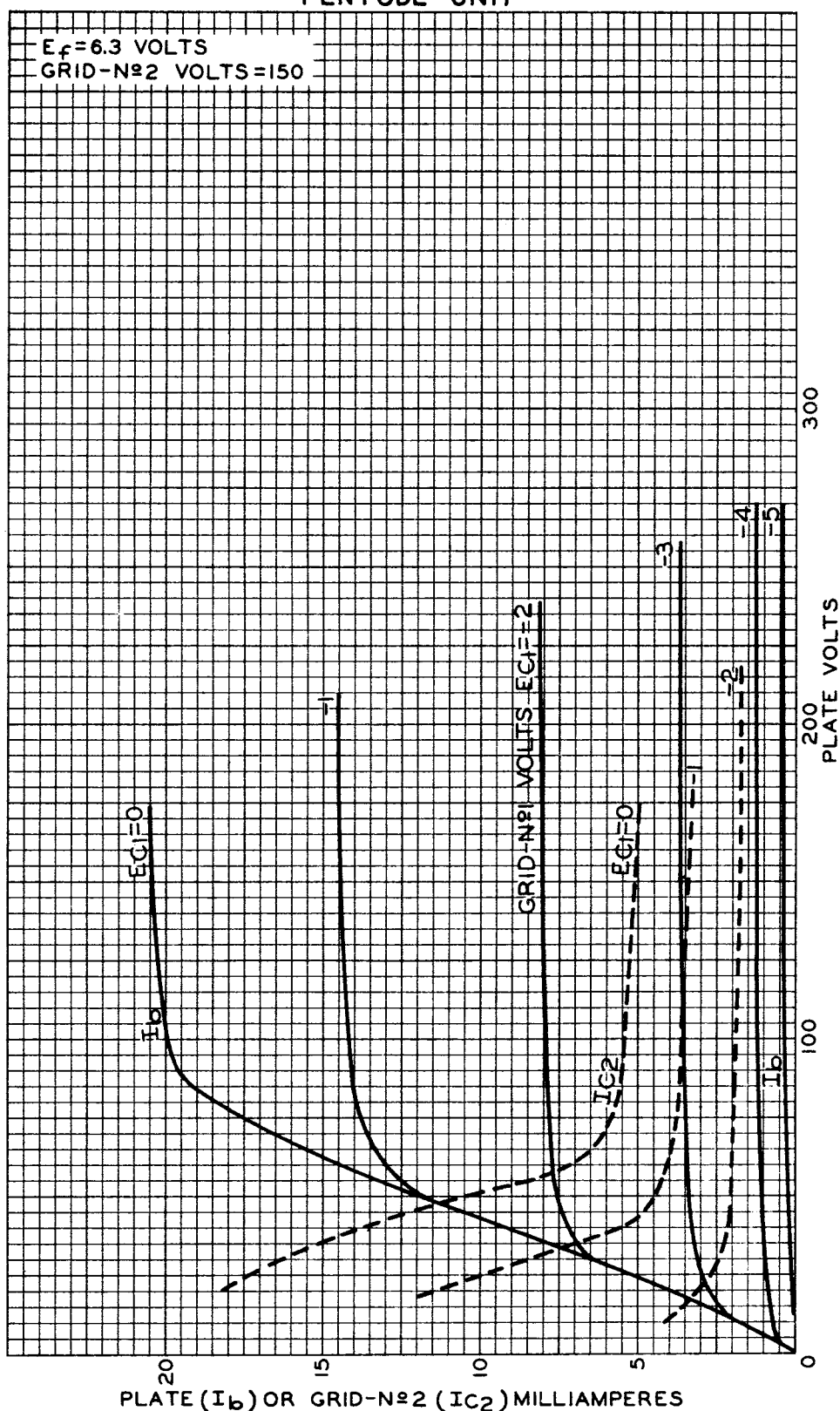


6AM8



6AM8

AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



JAN. 14, 1954

TUBE DIVISION

92CM-8505

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY