



6B7

6B7

TWIN DIODE—REMOTE-CUTOFF PENTODE

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances (Pentode Unit):

Grid No.1 to Plate⁰. 0.007 max. μmf Input. 3.5 μmf Output 9.5 μmf ⁰ With external shield connected to cathode.**Mechanical:**

Mounting Position. Any

Maximum Overall Length 4-17/32"

Seated Length. 3-25/32" $\pm$ 1/8" ←

Maximum Diameter 1-9/16"

Bulb ST-12

Cap. Small

Base Small-Shell Small 7-Pin

Basing Designation for BOTTOM VIEW 7D

Pin 1—Heater

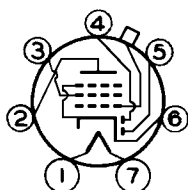
Pin 2—Pentode
PlatePin 3—Pentode
Grid No.2Pin 4—Diode No.2
PlatePin 5—Diode No.1
PlatePin 6—Cathode,
Pentode
Grid No.3Pin 7—Heater
Cap — Pentode
Grid No.1PENTODE UNIT
AMPLIFIER—Class A₁**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. 300 max. volts

GRID-No.2 (SCREEN) VOLTAGE 125 max. volts

GRID-No.2 SUPPLY VOLTAGE 300 max. volts

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value. 0 max. volts

PLATE DISSIPATION. 2.25 max. watts

GRID-No.2 DISSIPATION. 0.3 max. watt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode 90 max. volts

Heater positive with respect to cathode 90 max. volts

Characteristics:

Plate Voltage. 100 180 250 250 volts

Grid-No.2 Voltage. 100 75 100 125 volts

Grid-No.1 Voltage. -3 -3 -3 -3 volts

Plate Resistance (Approx.) 0.3 1.0 0.8 0.6 megohm

Transconductance 950 840 1000 1125 μmhos

(continued on next page)

←Indicates a change.

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TWIN DIODE—REMOTE-CUTOFF PENTODE

Grid-No.1 Bias (Approx.) for

Cathode-Current Cutoff . .	-17	-13	-17	-21	volts
Plate Current.	5.8	3.4	6	9	ma
Grid-No.2 Current.	1.7	0.9	1.5	2.3	ma

DIODE UNITS

Maximum Ratings, Design-Center Values:

→ PLATE CURRENT (For Each Diode) 1.0 max. ma

Diode Considerations:

See front of this Section.

*For additional data, refer to RESISTANCE-COUPLED
AMPLIFIER CHARTS at the front of this Section.*

*The curve shown under type 2B7 also applies to
the pentode unit of the 6B7.*

→ Indicates a change.

DEC. 30, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

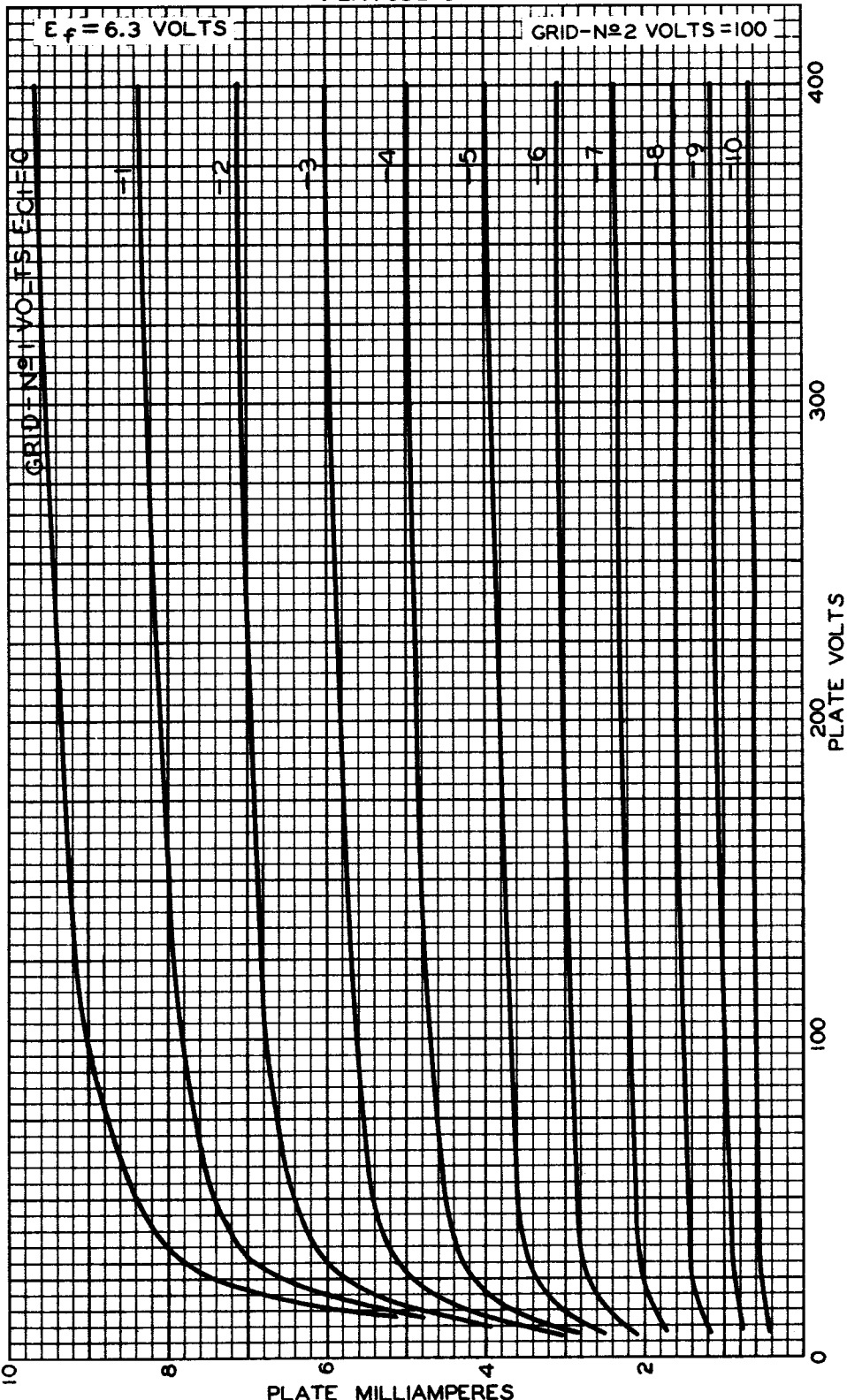
DATA



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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



FEB. 17, 1938

PLATE MILLIAMPERES
TUBE DEPARTMENT

92CM-4880

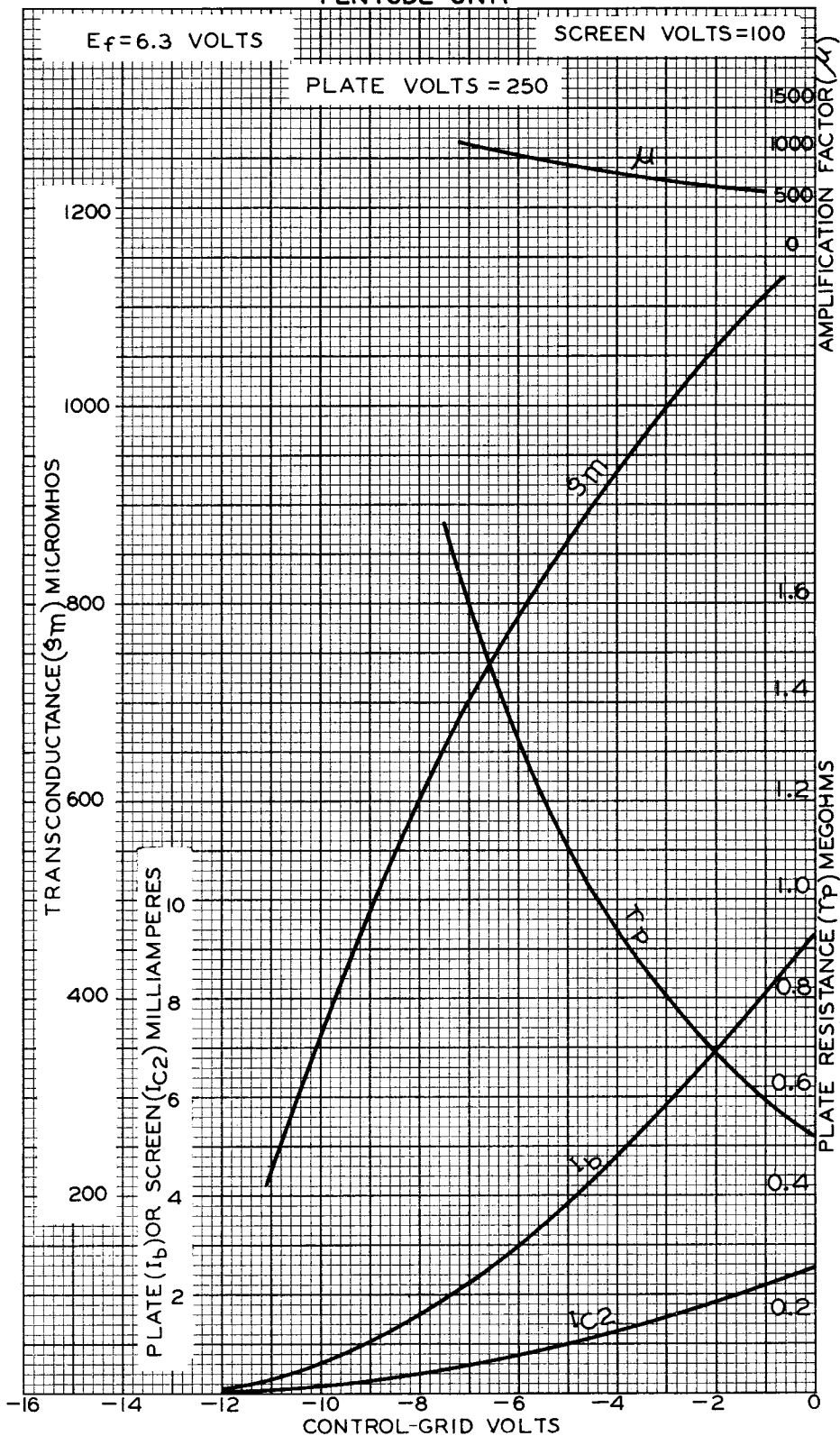
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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AVERAGE CHARACTERISTICS PENTODE UNIT



FEB. 25, 1937

 RCA RADOTRON DIVISION
 RCA MANUFACTURING COMPANY, INC.

92C-4745



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DUPLEX-DIODE PENTODE

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances - Pentode Unit:		
Grid to Plate (with shield-can)	0.007	μf
Input	3.5	μf
Output	9.5	μf
Overall Length	4-9/32" to 4-17/32"	
Maximum Diameter	1-9/16"	
Bulb	ST-12	
Cap	Small Metal	
Base	Small 7-Pin	
Pin 1 - Heater	Pin 5 - Diode Plate #1	
Pin 2 - Plate	Pin 6 - Cathode	
Pin 3 - Screen	Pin 7 - Heater	
Pin 4 - Diode Plate #2	Cap - Grid	

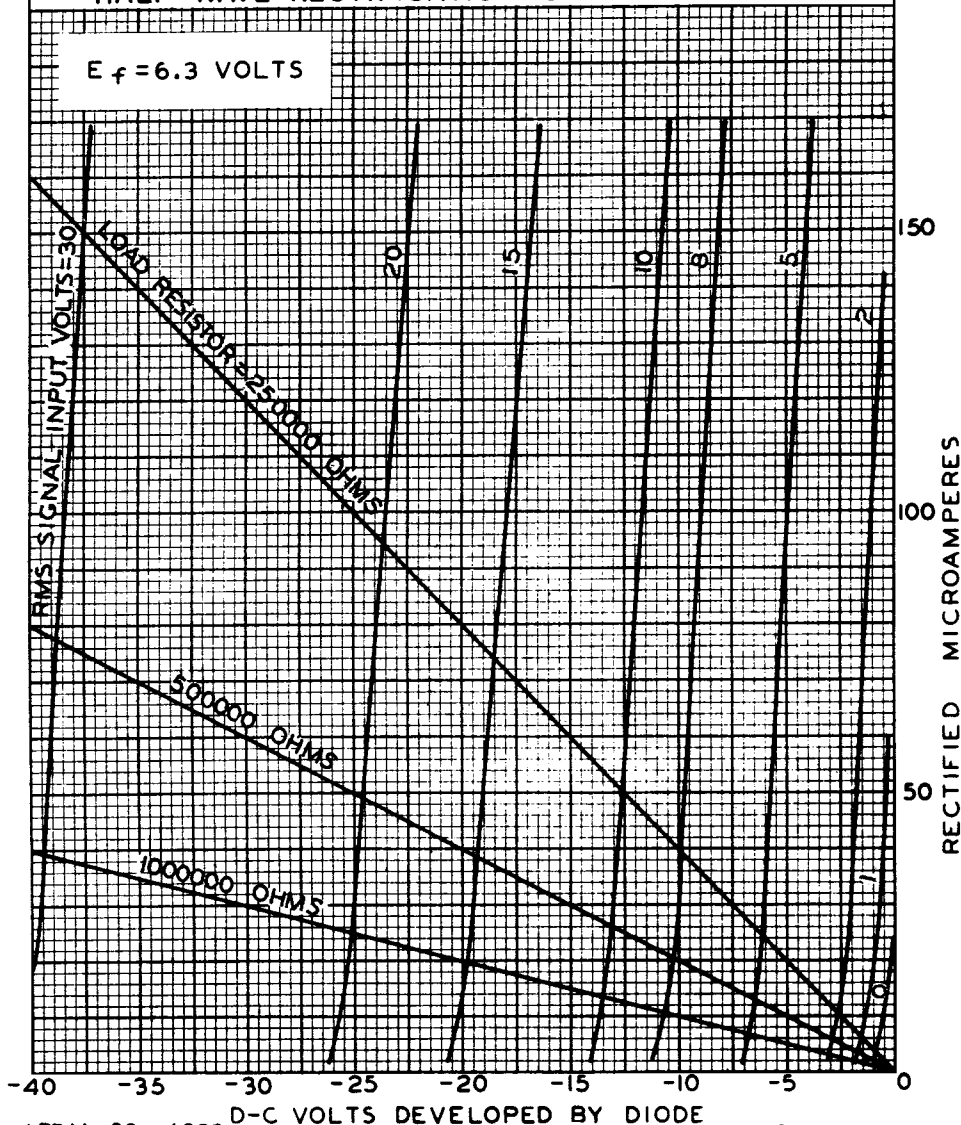


BOTTOM VIEW

Requires different socket than Medium 7-Pin Base.

For additional data, refer to Type 6B8-G and to RESISTANCE-COUPLED AMPLIFIER CHART; for additional curves, to Types 2B7 and 6B8-G; and for circuits to Type 2B7.

AVERAGE CHARACTERISTICS HALF-WAVE RECTIFICATION-SINGLE DIODE UNIT



APRIL 20, 1938

D-C VOLTS DEVELOPED BY DIODE

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92S-5278R1