



6B7

6B7

TWIN DIODE—REMOTE-CUTOFF PENTODEGENERAL 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 Plate ⁰	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.

DEC. 30, 1947

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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.

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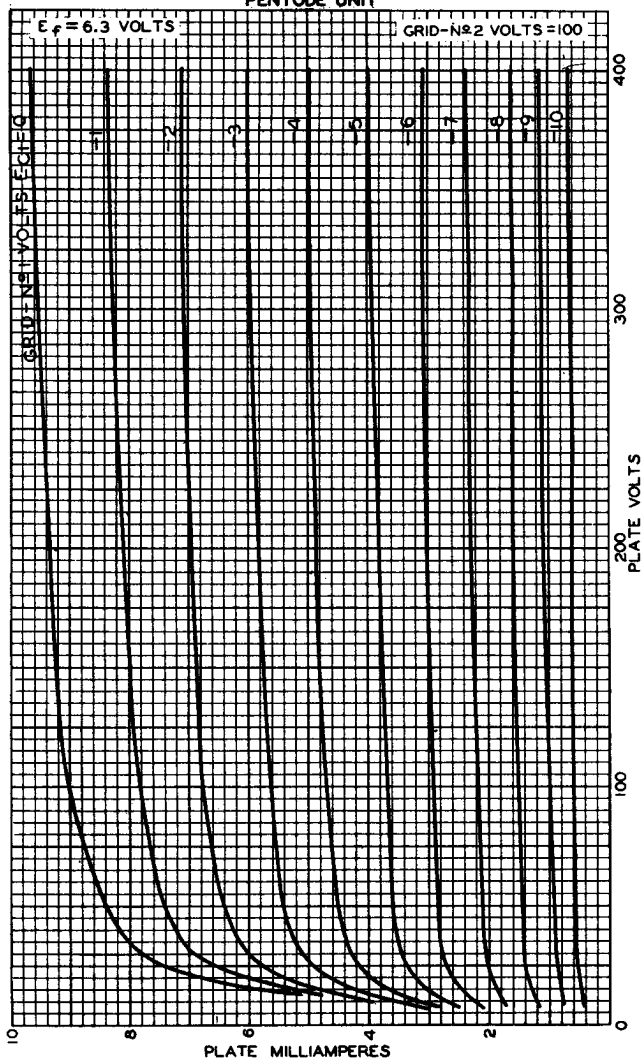
DATA

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AVERAGE PLATE CHARACTERISTICS
PENTODE UNIT

FEB. 17, 1938

PLATE MILLIAMPERES

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92CM-4880

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AVERAGE CHARACTERISTICS PENTODE UNIT

$E_f = 6.3$ VOLTS

GRID-Nº2 VOLTS = 100

PLATE VOLTS = 250

TRANSCONDUCTANCE (g_m) MICROMHMS

PLATE (I_b) OR GRID-Nº2 (I_{c2}) MILLIAMPERES

AMPLIFICATION FACTOR (μ)

PLATE RESISTANCE (r_p) MEGOHMS

GRID-Nº1 VOLTS

FEB. 25, 1937

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92CM-4745

