



85

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TWIN DIODE—MEDIUM-MU TRIODEGENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances - Triode Unit:*

Grid to Plate. 1.5 μf Grid to Cathode. 1.5 μf Plate to Cathode 4.3 μf

* With no external shield.

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 6-Pin

Basing Designation for BOTTOM VIEW 6G

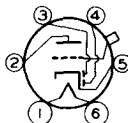
Pin 1-Heater

Pin 2-Triode

Plate

Pin 3-Diode No.2

Plate



Pin 4-Diode No.1

Plate

Pin 5-Cathode

Pin 6-Heater

Cap - Triode Grid

TRIODE UNIT
AMPLIFIER - Class A₁**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. 250 max. volts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . 90 max. volts

Heater positive with respect to cathode. . . 90 max. volts

Typical Operation and Characteristics:

Plate Voltage. 135 180 250 . . volts

Grid Voltage -10.5 -13.5 -20 . . volts

Amplification Factor 8.3 8.3 8.3

Plate Resistance 11000 8500 7500 . . ohms

Transconductance 750 975 1100 . . μmhos

Plate Current. 3.7 6.0 8.0 . . ma

Load Resistance. 25000 20000 20000 . . ohms

Power Output 75 160 350 . . mw

← Indicates a change.

(continued on next page)



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TWIN DIODE—MEDIUM-MU TRIODEDIODE UNITS - Two

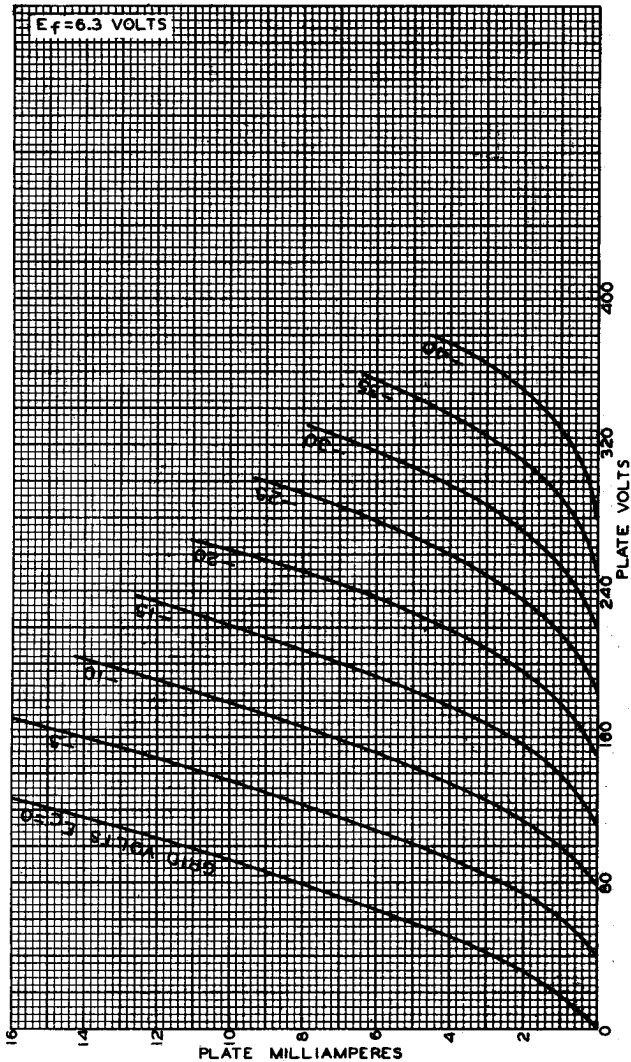
Consideration of these units, including typical circuits and diode curves, is given at the front of this Section. Diode biasing of the triode unit of the 85 may be used only when at least 20000 ohms resistance is in the triode plate circuit.

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



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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT



MAY 13, 1948

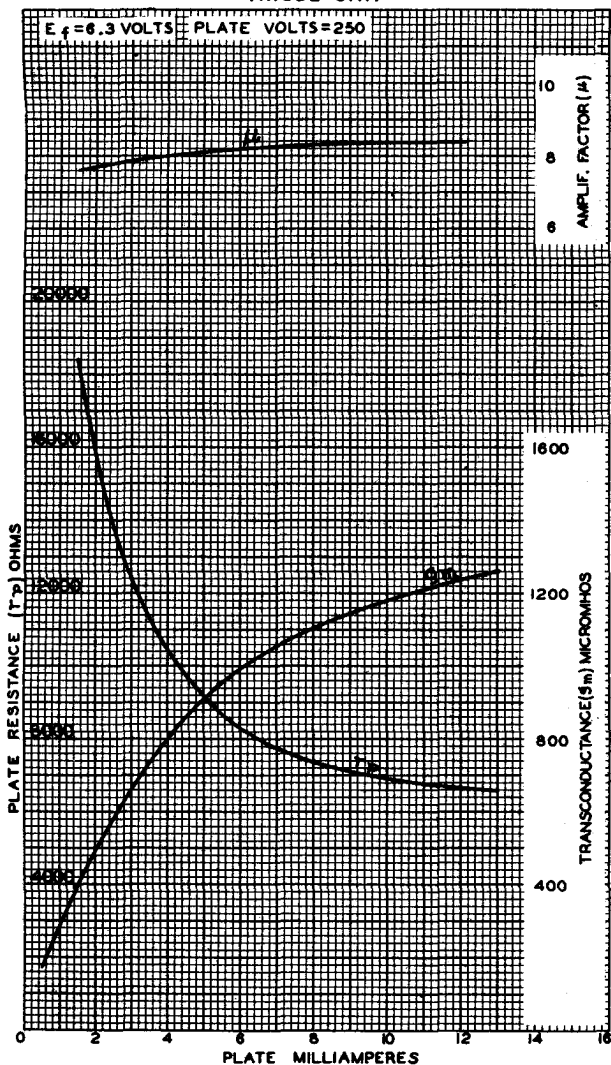
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-5197R1



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AVERAGE CHARACTERISTICS TRIODE UNIT



MAY 14, 1948

 TUBE DEPARTMENT
 RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-4746R1