



6S8-GT

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TRIPLE DIODE—HIGH-MU TRIODE

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathodes:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances:*

Triode Unit:

Grid to Plate. 1.2 μf Grid to Cathode. 2.0 μf Plate to Cathode. 3.8 μf

Each Diode Unit:

Plate to Cathode (Approx.). 1.0 μf

* With external shield.

Mechanical:

Mounting Position. Any

Maximum Overall Length. 3-5/8"

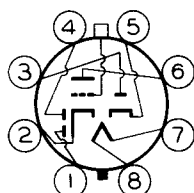
Maximum Seated Length. 3-1/16"

Maximum Diameter. 1-9/32"

Bulb T-9

Base Intermediate-Shell Octal 8-Pin

Basing Designation for BOTTOM VIEW. 8CB

Pin 1—Diode
Plate No.3Pin 2—Cathode of
Triode &
Diodes
Nos. 2 & 3Pin 3—Diode
Plate No.1Pin 4—Diode
Plate No.2Pin 5—Cathode of
Diode No.1

Pin 6—Triode Plate

Pin 7—Heater

Pin 8—Heater

Cap —Triode Grid

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

PLATE VOLTAGE. 300 max. volts

PLATE DISSIPATION. 0.5 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. 50 100 250 . . volts

Grid Voltage. 0 -1 -2 . . volts

Grid Resistor. 10 0 0 . megohms

Amplification Factor 85 100 100

Plate Resistance. 285000 110000 91000 . . ohms

Transconductance. 300 900 1100 . . μmhos

Plate Current. 0.07 0.4 0.9 . . ma

AUGUST 29, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

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TRIPLE DIODE—HIGH-MU TRIODE

DIODE UNITS

Maximum Ratings, Design-Center Values:

PLATE CURRENT (For Each Diode) 1.0 max. ma

Diode Considerations:

Diode units No.2 & No.3 and the triode unit have a common cathode, and diode unit No.1 has a separate cathode. Diodes No.1 (pins 3 & 5) and No.3 (pins 1 & 2) are recommended for use in FM detector applications, while diode No.2 (pins 4 & 2) is recommended for use as an AM detector.

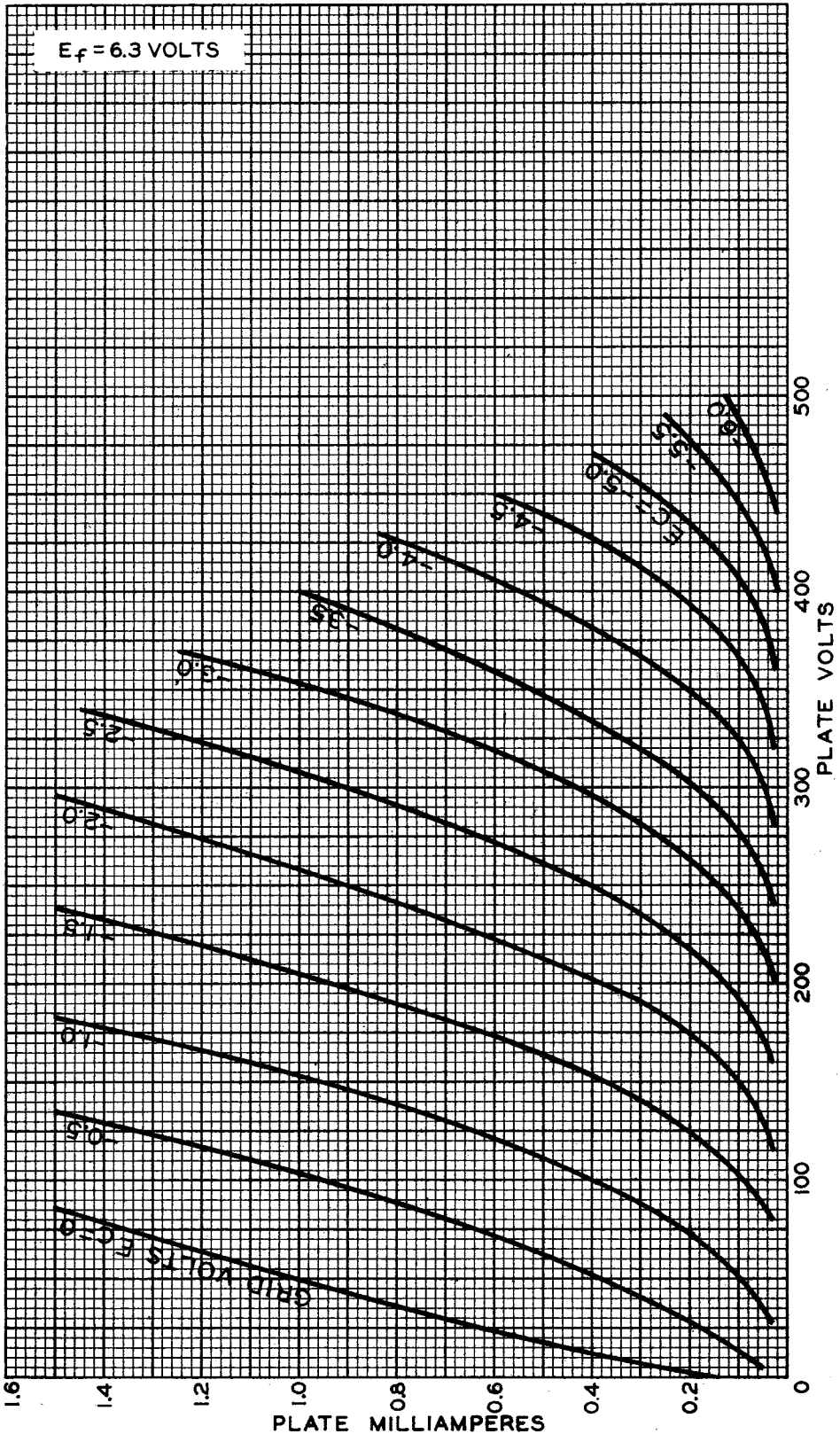
Further consideration of these units, including diode curves, is given at the front of this section. Diode biasing of the triode unit of the 6S8-GT is not suitable.



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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

6S8-GT



JULY 25, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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