



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.3
Pin 2 - Cathode of Triode & Diodes Nos. 2 & 3
Pin 3 - Diode Plate No.1



Pin 4 - Diode Plate No.2
Pin 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

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### 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.

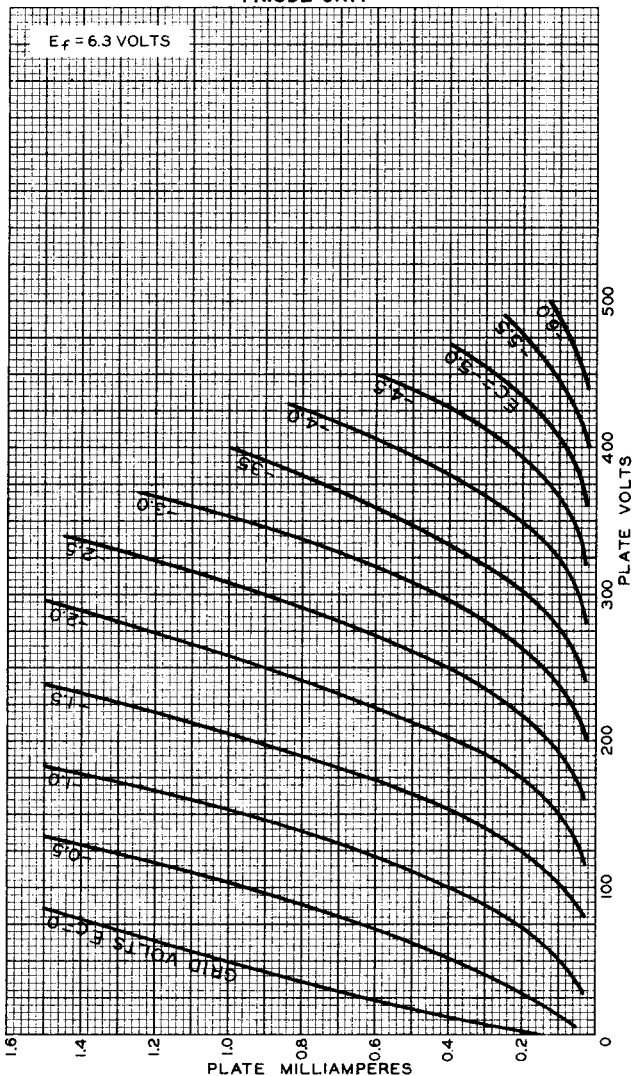
Further consideration of these units, including diode curves, is given at the front of this section. Diode biasing of the triode unit of the 6S8-GT is not suitable.



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### AVERAGE PLATE CHARACTERISTICS TRIODE UNIT



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TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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