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

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 910000 ........ 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
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.