GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage .......... 6.3 ...... ac or dc volts
Current .......... 0.3 ............ amp
Direct Interelectrode Capacitances:

| Without External Shield | With External Shield
|-------------------------|----------------------|
| Grid to triode plate. | 2.0 2.0 μf
| Grid to cathode and heater | 2.2 2.2 μf
| Plate to cathode and heater | 0.8 1.2 μf
| Plate of diode unit No. 2 | to triode grid. | 0.04 max. μf

Characteristics, Class A1 Amplifier (Triode Unit):
Plate Voltage .......... 100 250 volts
Grid Voltage .......... -1 -3 volts
Amplification Factor .......... 70 70
Plate Resistance (Approx.) .......... 54000 58000 ohms
Transconductance .......... 1300 1200 μhmhos
Plate Current .......... 0.8 1 ma

Mechanical:
Mounting Position .......... Any
Maximum Overall Length .......... 2-1/8"
Maximum Seated Length .......... 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip) .......... 1-1/2" ± 3/32"
Maximum Diameter .......... 3/4"
Dimensional Outline .......... See General Section
Bulb .......... T-5-1/2
Base .......... Small-Button Miniature 7-Pin (JETEC No.E7-1)
Basing Designation for BOTTOM VIEW .......... 7BT

TRIODE UNIT—AMPLIFIER — Class A1

Maximum Ratings, Design-Center Values:
PLATE VOLTAGE .......... 300 max. volts
GRID VOLTAGE:
Positive bias value .......... 0 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

0 With external shield JETEC No.316 connected to cathode.

SEPT. 1, 1955
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

<-- indicates a change.
TWIN DIODE—HIGH-MU TRIODE

Typical Operation as Resistance-Coupled Amplifier:

See RESISTANCE-COUPLED AMPLIFIER CHART No. 7
at front of this Section

DIODE UNITS

Maximum Ratings, Design-Center Values:
PLATE CURRENT (For each diode) . . . . . . . . 1.0 max. ma

Diode Considerations:
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 6AT6 is not suitable.
6AT6
AVERAGE PLATE CHARACTERISTICS
TRIODE UNIT

$E_p = 6.3$ VOLTS

PLATE MILLIAMPERES

OCT. 19, 1945
RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6610