TWIN DIODE—MEDIUM-MU TRIODE

GENERAL 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 \( \mu \)f
Grid to Cathode. 1.5 \( \mu \)f
Plate to Cathode. 4.3 \( \mu \)f

* 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 A

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. 135 160 250 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 \( \mu \)hos
Plate Current. 3.7 6.0 8.0 ma
Load Resistance. 25000 20000 20000 ohms
Power Output. 75 160 350 mw

\( \leftarrow \) indicates a change.

(continued on next page)

JUNE 15, 1948
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
<table>
<thead>
<tr>
<th>DIODE UNITS - TWO</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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