# GENERAL DATA

**Electrical:**
- Heater, for Unipotential Cathode:
  - Voltage: 6.3 ac or dc volts
  - Current: 3.0 amp
- Direct Interelectrode Capacitances (Approx.):
  - Plate to heater and cathode: 11.5 μf
  - Cathode to heater and plate: 16 μf
  - Heater to cathode: 5 μf

**Mechanical:**
- Mounting Position: Any
- Maximum Overall Length: 4-5/8""n
- Maximum Seated Length: 4-1/16"n
- Maximum Diameter: 1-23/32"n
- Bulb: T-12
- Base: Short Jumbo-Shell Octal 8-Pin with External Barriers (JETEC No. B8-71)
- Basing Designation for BOTTOM VIEW: 8GB

![Diagram of tube connections]

## DAMPER SERVICE

Maximum Ratings, *Design-Center Values Except as Noted*:

For operation in a 525-line, 30-frame system:

- **PEAK INVERSE PLATE VOLTAGE** (Absolute value): 4500* max. volts
- **PEAK PLATE CURRENT**: 1200 max. ma
- **DC PLATE CURRENT**: 200 max. ma
- **PLATE DISSIPATION**: 8 max. ma

**PEAK HEATER–CATHODE VOLTAGE:**
- Heater negative with respect to cathode (Absolute value): 4500* max. volts
- Heater positive with respect to cathode: 300* max. volts

* Without external shield.

* As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

* This rating is applicable where the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30 frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

* Under no circumstances should this absolute value be exceeded.

* The dc component must not exceed 900 volts.

* The dc component must not exceed 100 volts.

MAR. 1, 1955

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
HALF-WAVE VACUUM RECTIFIER

AVERAGE PLATE CHARACTERISTIC

$E_F = 6.3 \text{ VOLTS}$

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<th>DC PLATE VOLTS</th>
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MAR. 1, 1955

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

CE-8434T