**DIODE—SHARP-CUTOFF PENTODE**

**GENERAL DATA**

**Electrical:**
- Filament, Coated:
  - Voltage: 1.25 dc volts
  - Current: 0.04 amp

**Mechanical:**
- Mounting Position: Any
- Maximum Overall Length: 1-3/4" (2.75"
- Maximum Seated Length: 1-1/2" (3.75"
- Length, Base Seat to Bulb Top (excluding tip): 1.200 ±0.060"
- Maximum Diameter: 0.4"
- Bulb: T-3
- Base: Small-Button Sub-minar 8-Pin

**PENTODE UNIT**

- Pin 1—Pentode Plate
- Pin 2—No Connection
- Pin 3—Grid No.1
- Pin 4—Filament (-), Grid No.3
- Pin 5—Filament (+)
- Pin 6—Diode Plate
- Pin 7—No Connection
- Pin 8—Grid No.2

**AMPLIFIER—Class A**

**Maximum Ratings, Design-Center Values:**
- Plate Voltage: 67.5 max. volts
- Grid-No.2 (Screen) Voltage: 67.5 max. volts
- Total Cathode Current: 2.0 max. ma

**Typical Operation and Characteristics:**
- Plate Voltage: 30 45 67.5 volts
- Grid-No.2 Voltage: 30 45 67.5 volts
- Grid-No.1 (Control-Grid) Voltage: 0 0 0 volts
- Plate Resistance (Approx.): 0.5 0.5 0.4 megohm
- Transconductance: 230 475 600 µhos
- Plate Current: 0.33 0.75 1.6 ma
- Grid-No.2 Current: 0.10 0.21 0.4 ma

**DIODE UNIT**

**Maximum Ratings, Design-Center Values:**
- Plate Current: 0.25 max. ma

**Diode Considerations:**
The diode is located at the negative end of the filament and is independent of the pentode unit except for the common filament.
AVERAGE PLATE CHARACTERISTICS

- $E_F = 1.25$ VOLTS DC
- GRID-N° 2 VOLTS = 45

PLATE (I_b) OR GRID-N° 2 (Ic2) MILLIAMPERES

APRIL 21, 1949
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
AVERAGE PLATE CHARACTERISTICS

$E_p = 1.25$ VOLTS DC
GRID-No. 2 VOLTS $= 67.5$

PLATE ($I_b$) OR GRID-No. 2 ($I_{c2}$) MILLIAMPERES

APRIL 20, 1949
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
### Average Characteristics

**$E_f = 1.25$ Volts DC**

<table>
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<tr>
<th>CURVE</th>
<th>PLATE VOLTS</th>
<th>GRID-$\text{No} 2$ VOLTS</th>
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![Diagram](image-url)