

Power Triode

LIGHTHOUSE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC). 6.3 ± 0.3 volts

Current at heater volts = 6.3 0.900 amp

Cathode Heating Time. See *Operating Considerations*Direct Interelectrode Capacitances:^aGrid to plate 1.8 μf Grid to cathode 3.0 μf Plate to cathode. 0.04 max. μf Cathode rf terminal to cathode. 100 μf Characteristics, Class A₁ Amplifier:

Plate Supply Voltage. 250 volts

Cathode Resistor. 100 ohms

Amplification Factor. 50

Transconductance. 8100 μmhos

Plate Current 21 ma

Mechanical:

Operating Position. Any

Maximum Overall Length. 2.6875"

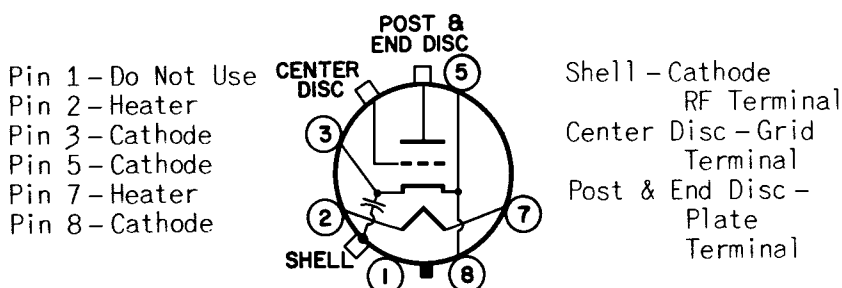
Maximum Seated Length 2.078"

Maximum Diameter. 1.312"

Weight (Approx.). 1 oz

Base. Small H-Wafer 6-Pin (JEDEC Group 1, No. B6-108)

Basing Designation for BOTTOM VIEW. 6BY



Thermal:

Cooling Convection and Conduction

Seal Temperature. 175 max. °C

RF POWER AMPLIFIER & OSCILLATOR — Class C Telegraphy

Maximum CCS^b Ratings, Absolute-Maximum Values:

For frequencies up to 1500 Mc

DC PLATE VOLTAGE. 500 max. volts

DC PLATE CURRENT. 40 max. ma

← Indicates a change.



DC CATHODE CURRENT.	55 max.	ma
PLATE DISSIPATION	12 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode .	90 max.	volts
Heater positive with respect to cathode .	90 max.	volts
PEAK CATHODE-SHELL VOLTAGE:		
Shell negative with respect to cathode. .	90 max.	volts
Shell positive with respect to cathode. .	90 max.	volts

→ PLATE-PULSED OSCILLATOR

Maximum CCS^b Ratings, Absolute-Maximum Values:

For frequencies up to 3370 Mc, maximum duty factor of plate pulse = 0.006, and maximum pulse duration of 10 microseconds

PEAK POSITIVE-PULSE PLATE SUPPLY VOLTAGE. .	3500 max.	volts
PLATE CURRENT:		
Average during plate pulse.	2.75 max.	amp
CATHODE CURRENT:		
Average during plate pulse.	4 max.	amp
PLATE DISSIPATION	12 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode .	90 max.	volts
Heater positive with respect to cathode .	90 max.	volts
PEAK CATHODE-SHELL VOLTAGE:		
Shell negative with respect to cathode. .	90 max.	volts
Shell positive with respect to cathode. .	90 max.	volts

^a Without external shield.

^b Continuous Commercial Service.

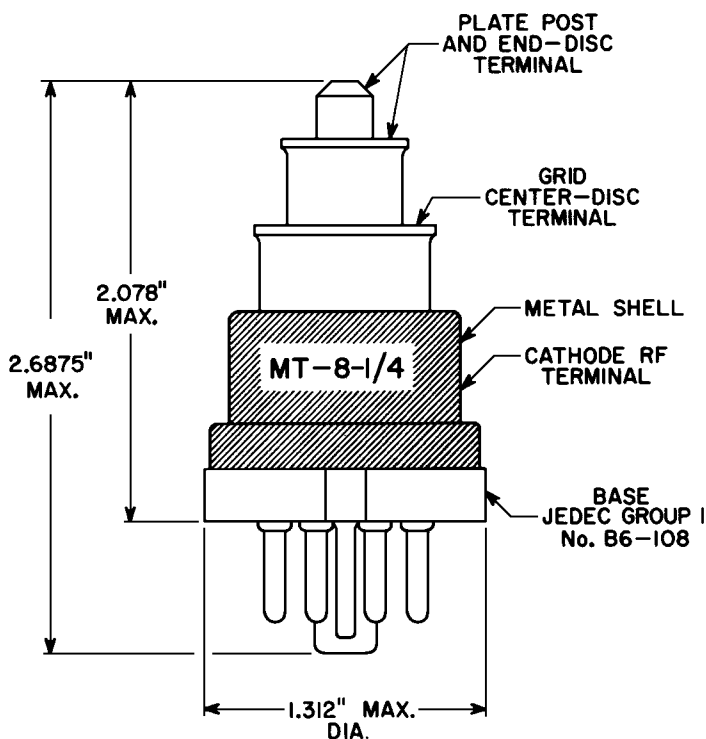
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OPERATING CONSIDERATIONS

In *Plate-Pulsed Oscillator Service*, the plate voltage must not be applied until a minimum of 1 minute after the application of the heater voltage.

In *RF Power Amplifier & Oscillator — Class C Telegraphy Service*, the plate voltage and the heater voltage may be applied simultaneously.



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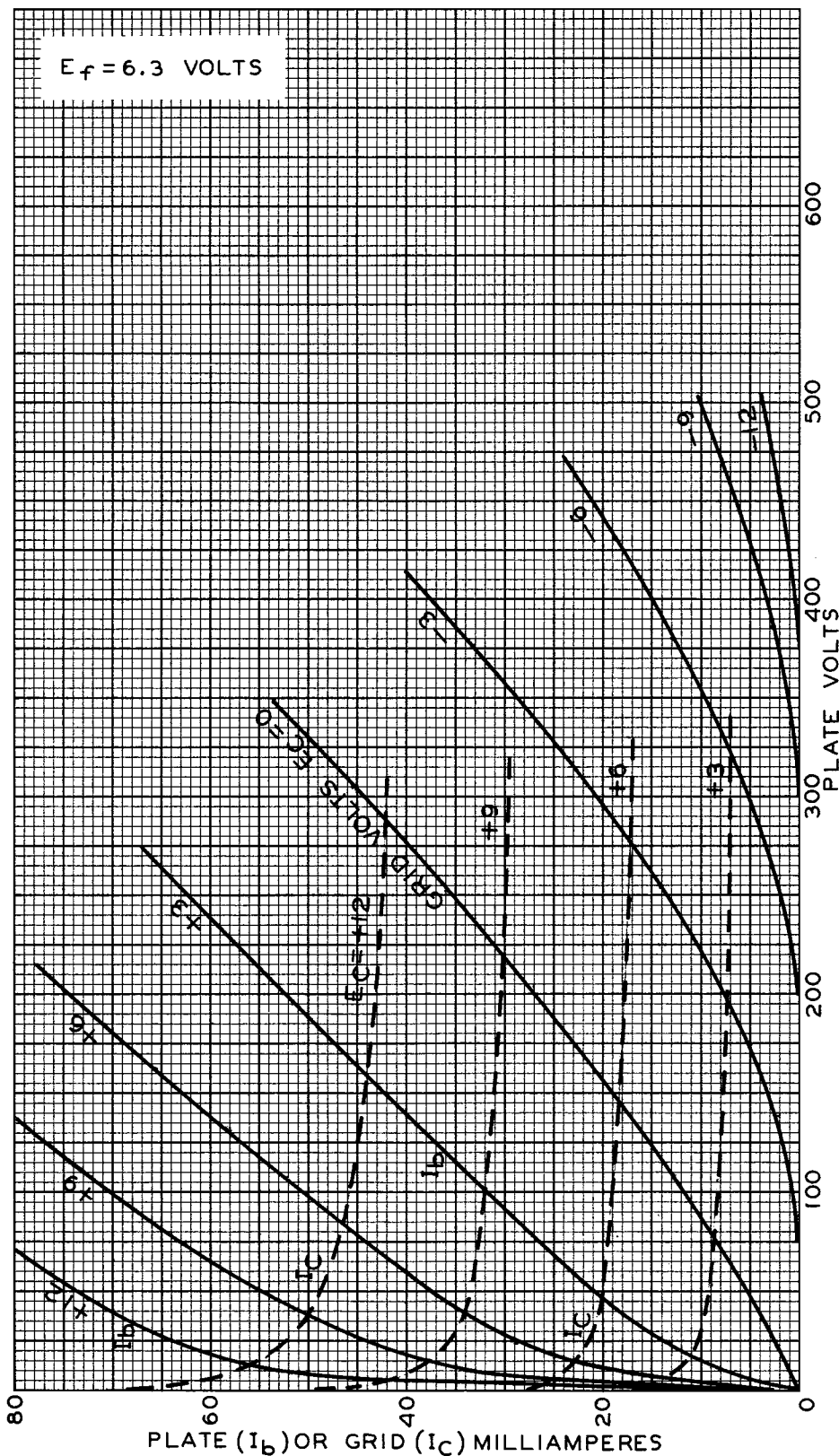




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AVERAGE PLATE CHARACTERISTICS



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RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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