

PENTODE

DESCRIPTION

The GL-5654 is a miniature sharp-cutoff pentode similar to the Type 6AK5. The GL-5654, however, is designed for reliable service under conditions of intermittent operation.

TECHNICAL INFORMATION

GENERAL

Electrical Data

Cathode—Coated Unipotential	
Heater Voltage (A-c or D-c)	6.3 Volts
Heater Current	0.175 Ampere
Direct Interelectrode Capacitances*	
Grid to Plate	0.02 max uuf
Input	4.0 uuf
Output	2.9 uuf

Mechanical Data

Mounting Position—Any
Envelope—T-5½ Glass



GENERAL  ELECTRIC

Supersedes ETX-241A dated 3-51

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

Maximum Ratings, Design Center

Plate Voltage	180 Volts
Grid-No. 2 Voltage	140 Volts
Cathode Current	18 Milliamperes
Plate Dissipation	1.7 Watts
Grid-No. 2 Dissipation	0.5 Watt
Peak Heater-cathode Voltage	90 Volts

Typical Operation

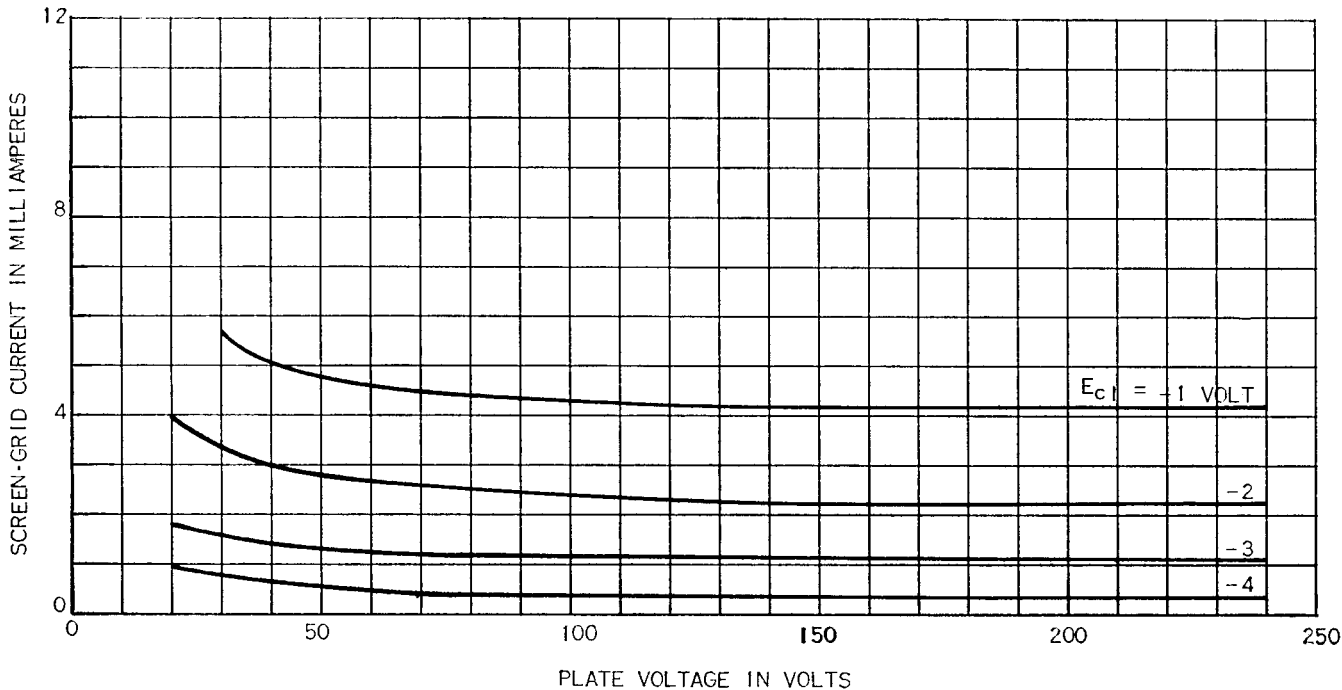
Class A₁ Amplifier

Plate Voltage	120 Volts
Grid-No. 2 Voltage	120 Volts
Cathode-bias Resistor†	200 Ohms
Plate Resistance, approximate	0.34 Megohm
Transconductance	5000 Micromhos
Plate Current	7.5 Milliamperes
Grid-No. 2 Current	2.5 Milliamperes
Grid-No. 1 Voltage, approximate, I _p = 10 ua	-12 Volts

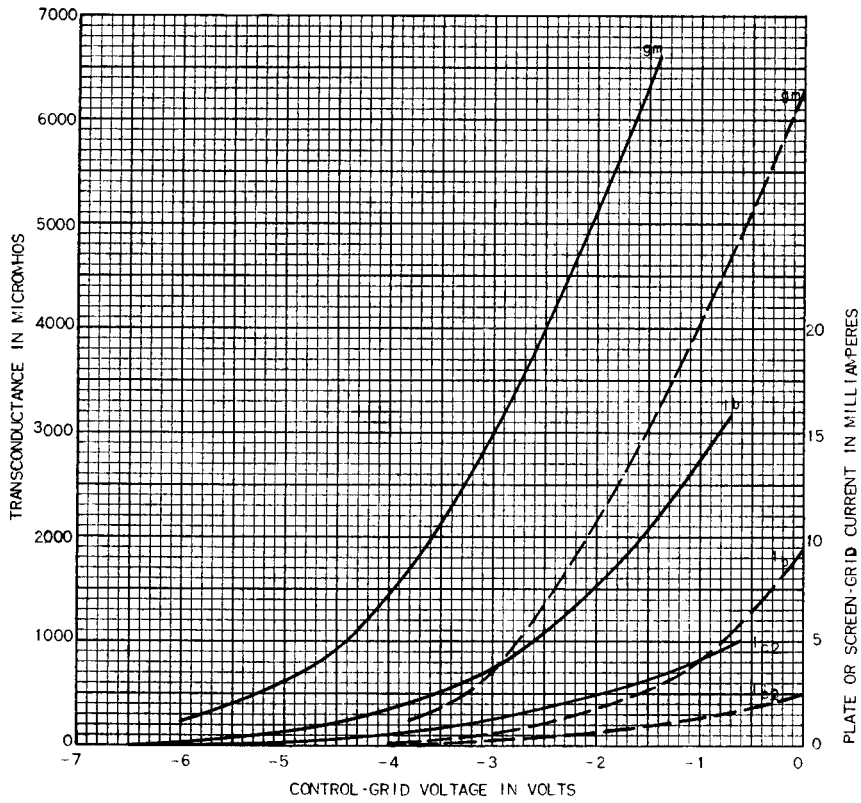
* Approximate values with external shield connected to cathode.

† Fixed-bias operation is not recommended.

GL-5654
 SCREEN-GRID CHARACTERISTICS
 SCREEN VOLTS = 120 E_i = 6.3



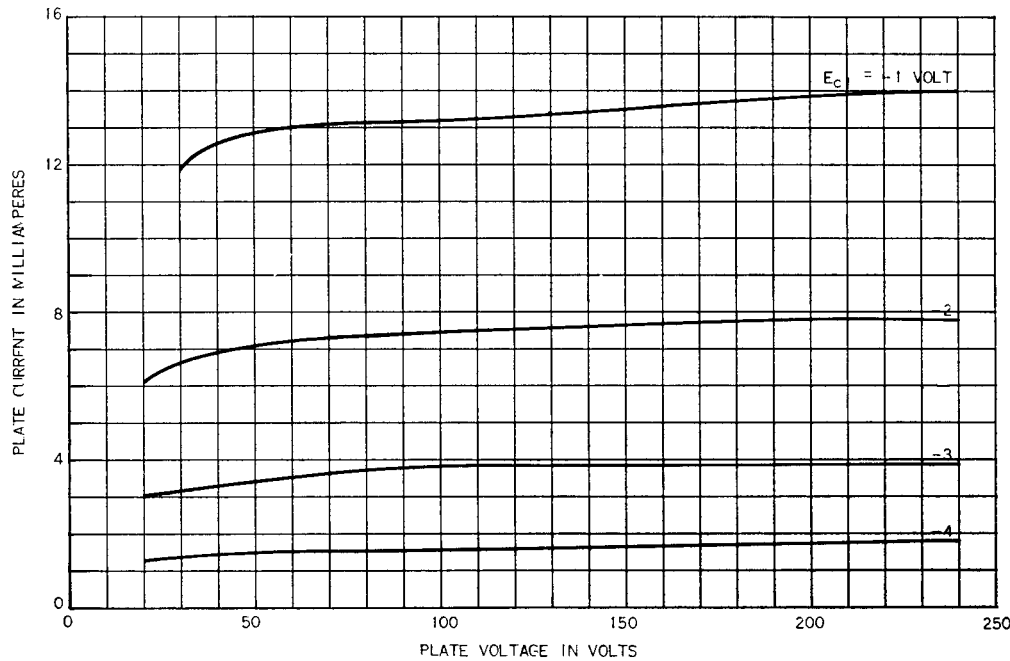
GL-5654 AVERAGE CHARACTERISTICS
 — SCREEN VOLTS = 120 - - - SCREEN VOLTS = 75
 PLATE VOLTS = 180 $E_i = 6.3$ VOLTS



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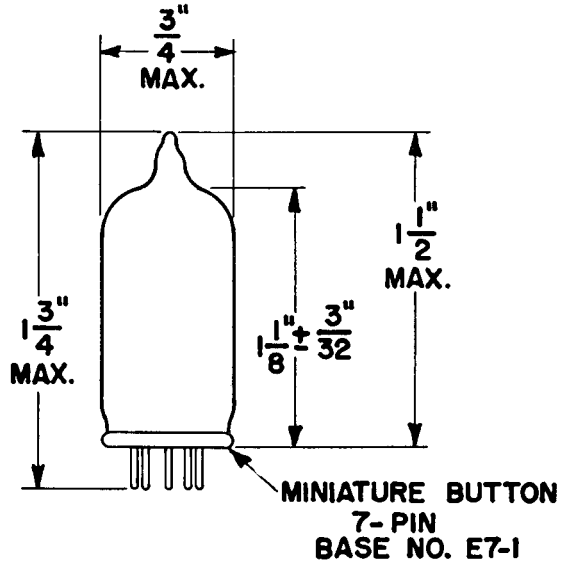
GL-5654
AVERAGE PLATE CHARACTERISTICS
 SCREEN VOLTS = 120 $E_i = 6.3$ VOLTS



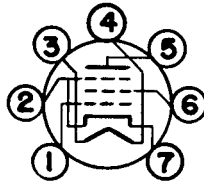
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OUTLINE GL-5654



BASING DIAGRAM



- PIN 1: GRID NO. 1
- PIN 2: CATHODE, INTERNAL SHIELD, GRID NO.3
- PIN 3: HEATER
- PIN 4: HEATER
- PIN 5: PLATE
- PIN 6: GRID NO. 2
- PIN 7: CATHODE, INTERNAL SHIELD, GRID NO. 3

N-15150AZ

5-17-49

Tube Department

GENERAL  ELECTRIC

Schenectady, N. Y.