

# 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

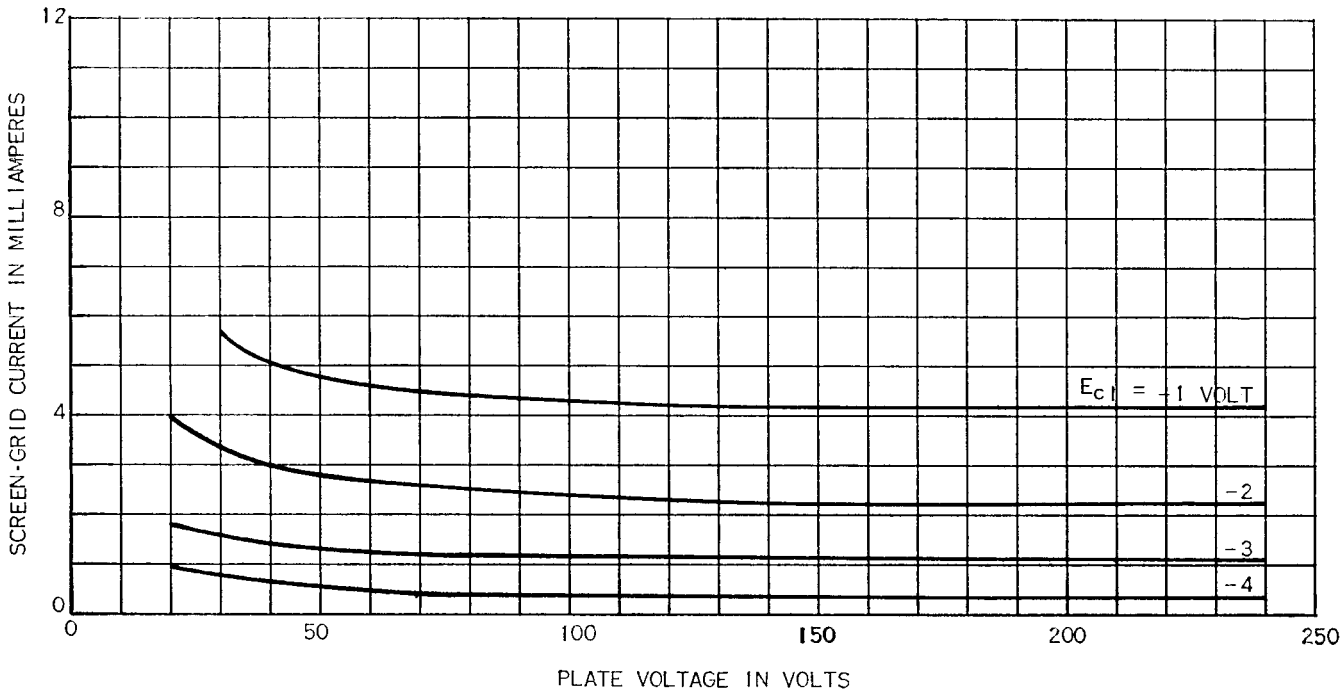
Class A<sub>1</sub> Amplifier

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 <sub>p</sub> = 10 ua .....	-12 Volts

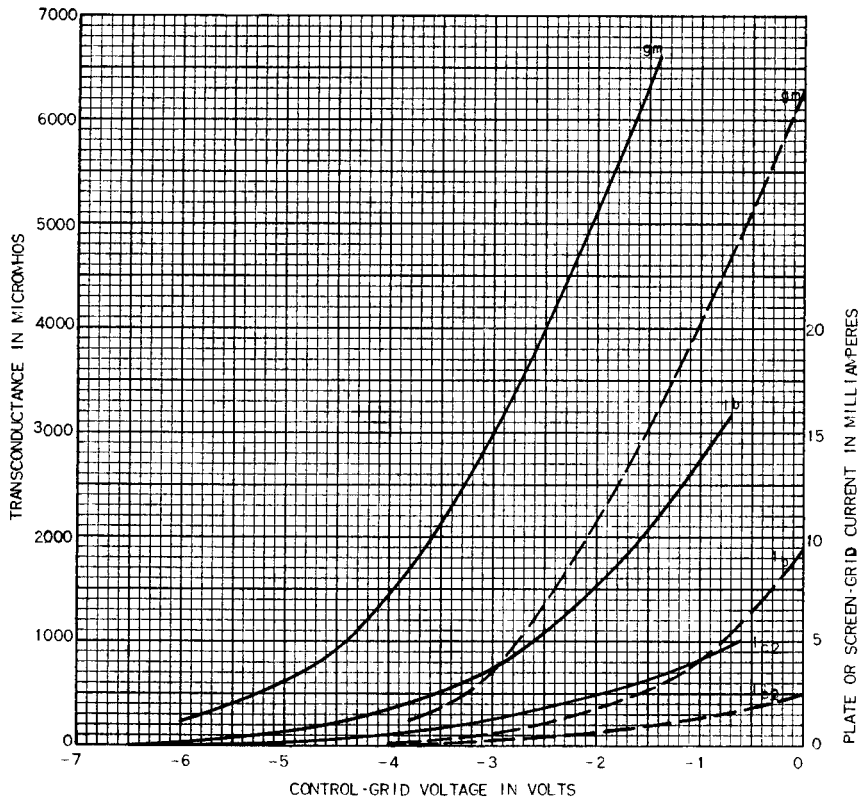
\* Approximate values with external shield connected to cathode.

† Fixed-bias operation is not recommended.

GL-5654  
 SCREEN-GRID CHARACTERISTICS  
 SCREEN VOLTS = 120 E<sub>i</sub> = 6.3



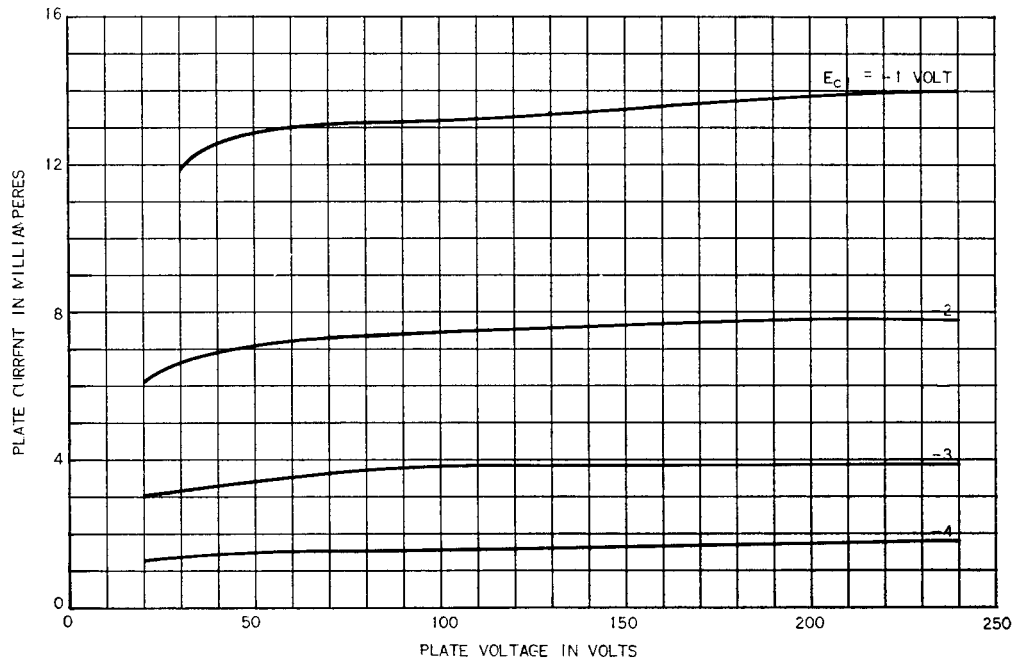
**GL-5654 AVERAGE CHARACTERISTICS**  
 — SCREEN VOLTS = 120    - - - SCREEN VOLTS = 75  
 PLATE VOLTS = 180     $E_i = 6.3$  VOLTS



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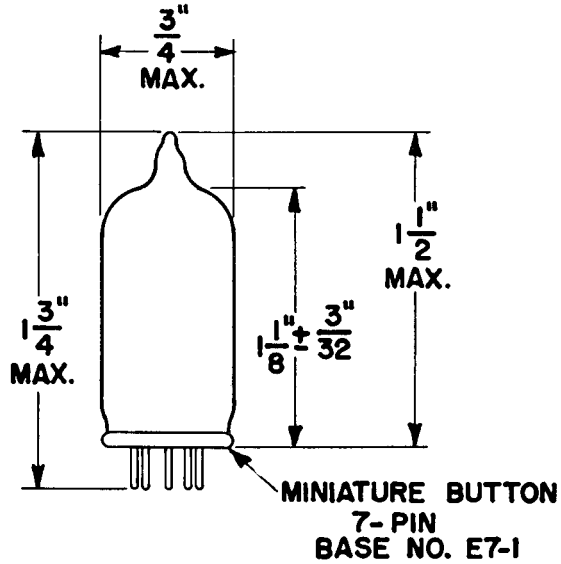
**GL-5654**  
**AVERAGE PLATE CHARACTERISTICS**  
 SCREEN VOLTS = 120     $E_i = 6.3$  VOLTS



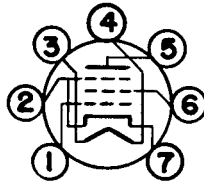
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OUTLINE GL-5654



**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.