

### MECHANICAL DATA

Bulb . . . . .	T-5½
Base . . . . .	E7-1, Miniature Button, 7-Pin
Outline . . . . .	5-2
Basing . . . . .	7BD
Cathode . . . . .	Coated Unipotential
Mounting Position . . . . .	Any

### ELECTRICAL DATA

#### HEATER CHARACTERISTICS

Heater Voltage . . . . .	6.3 Volts
Heater Current . . . . .	300 Ma

#### DIRECT INTERELECTRODE CAPACITANCES

	Shielded <sup>1</sup>	Unshielded
<b>Pentode Connection</b>		
Grid to Plate ( $g_1$ to p) . . . . .	0.020	0.030 $\mu\text{f}$ Max.
Input: ( $g_1$ to h+k+ $g_2$ + $g_3$ +I.S.) . . . . .	6.6	6.5 $\mu\text{f}$
Output: (p to h+k+ $g_2$ + $g_3$ +I.S.) . . . . .	3.1	1.8 $\mu\text{f}$
<b>Triode Connection (<math>g_2</math> Tied to Plate)</b>		
Grid to Plate ( $g_1$ to p+ $g_2$ ) . . . . .	2.5	2.5 $\mu\text{f}$
Input: ( $g_1$ to h+k+ $g_3$ +I.S.) . . . . .	3.6	3.6 $\mu\text{f}$
Output: (p+ $g_2$ to h+k+ $g_3$ +I.S.) . . . . .	4.3	3.0 $\mu\text{f}$

#### RATINGS (Design Center Values)

	Triode <sup>2</sup>	Pentode
Plate Voltage . . . . .	300	300 Volts Max.
Grid No. 2 Supply Voltage . . . . .	Plate	300 Volts Max.
Grid No. 2 Voltage . . . . .	Plate	(See Rating Chart)
Plate Dissipation . . . . .	2.5 <sup>3</sup>	2.0 Watts Max.
Grid No. 2 Dissipation . . . . .		0.5 Watt Max.
Positive DC Grid No. 1 Voltage . . . . .	0	0 Volts Max.
Heater Cathode Voltage . . . . .	90	90 Volts Max.

#### CHARACTERISTICS AND TYPICAL OPERATION

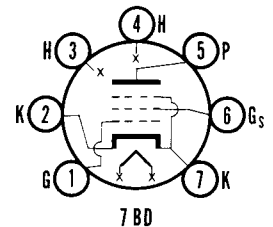
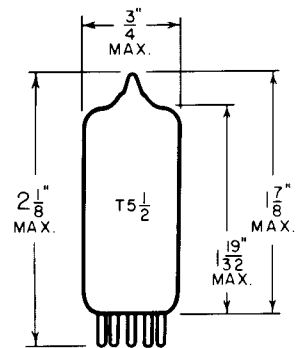
	Triode <sup>2</sup>		Pentode		
	Plate	Plate	100	125	250 Volts
Plate Voltage . . . . .	250	180	100	125	250 Volts
Grid No. 2 Voltage . . . . .	Plate	Plate	100	125	150 Volts
Cathode Resistor . . . . .	820	330	180	100	180 Ohms
Plate Current . . . . .	5.5 <sup>3</sup>	7.0 <sup>3</sup>	4.5	7.2	6.5 Ma
Grid No. 2 Current . . . . .			1.4	2.1	2.0 Ma
Transconductance . . . . .	3800	5700	4500	5100	5000 $\mu\text{mhos}$
Plate Resistance					
(approx.) . . . . .	0.01	0.008	0.6	0.5	0.8 Megohm
Amplification Factor . . . . .	42	45			
Grid No. 1 Voltage for $I_b = 10\mu\text{a}$ . . . . .			-5	-6	-8 Volts

#### NOTES:

- External shield No. 316 connected to Pin No. 7.
- Grid No. 2 tied to plate.
- Total current flowing to plate+grid No. 2.

### QUICK REFERENCE DATA

The Sylvania Type 6AG5 is a miniature sharp cutoff pentode designed for service as an if amplifier or rf amplifier at frequencies up to approximately 400 mc. The 6AG5 features low input and output capacitances and high gm. Isolation of input and output circuits is made possible through the use of two cathode leads.

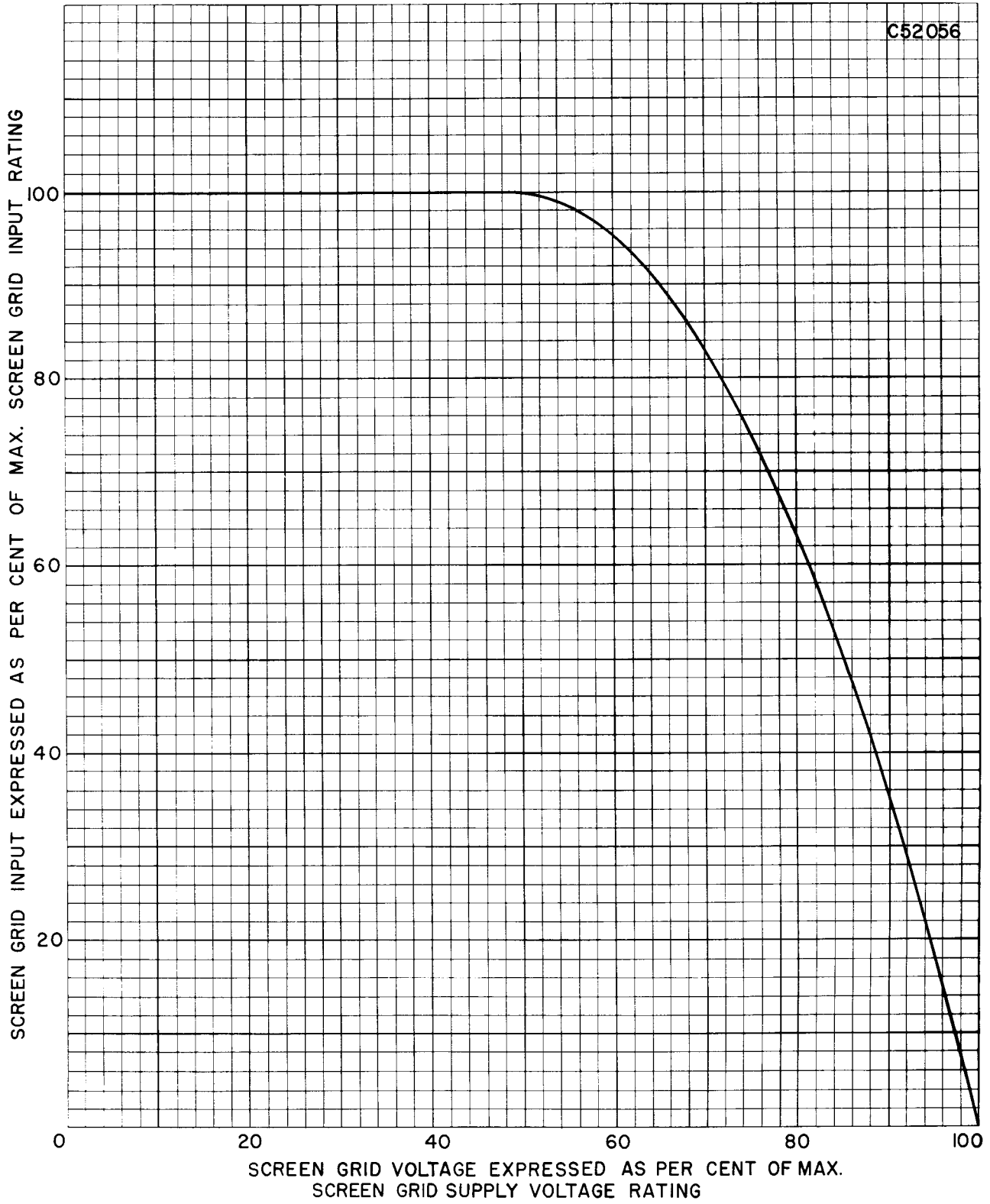


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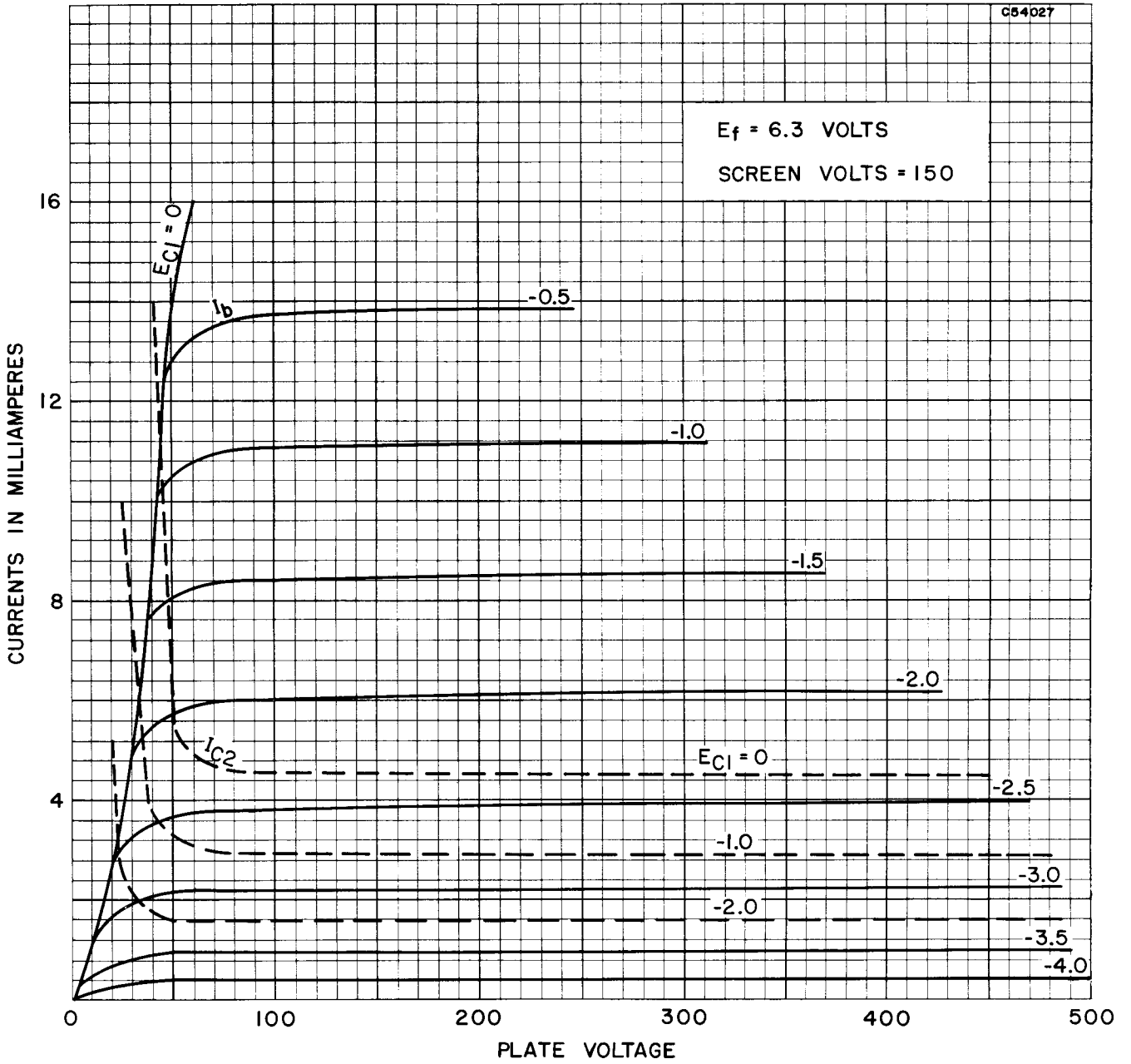
Prepared and Released By The  
TECHNICAL PUBLICATIONS SECTION  
EMPORIUM, PENNSYLVANIA

AUGUST, 1954  
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## SCREEN GRID RATING CHART



AVERAGE PLATE CHARACTERISTICS



## AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTED

