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[1]	Unshielded
Pentode Connection		
Grid to Plate (g_1 to p)	0.020	0.030 $\mu\mu$f Max.
Input: (g_1 to h+k+g_2+g_3+I.S.)	6.6	6.5 $\mu\mu$f
Output: (p to h+k+g_2+g_3+I.S.)	3.1	1.8 $\mu\mu$f
Triode Connection (g_2 Tied to Plate)		
Grid to Plate (g_1 to p+g_2)	2.5	2.5 $\mu\mu$f
Input: (g_1 to h+k+g_3+I.S.)	3.6	3.6 $\mu\mu$f
Output: (p+g_2 to h+k+g_3+I.S.)	4.3	3.0 $\mu\mu$f

RATINGS (Design Center Values)

	Triode[2]	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[3]	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

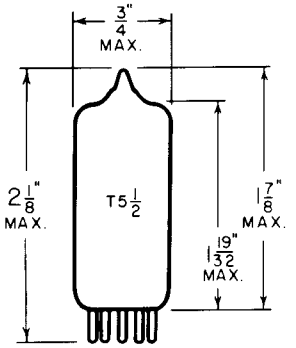
Class A_1 Amplifier	Triode[2]		Pentode		
Plate Voltage	250	180	100	125	250 Volts
Grid No. 2 Voltage	Plate	Plate	100	125	150 Volts
Cathode Resistor	820	330	180	100	180 Ohms
Plate Current	5.5[3]	7.0[3]	4.5	7.2	6.5 Ma
Grid No. 2 Current			1.4	2.1	2.0 Ma
Transconductance	3800	5700	4500	5100	5000 μmhos
Plate Resistance (approx.)	0.01	0.008	0.6	0.5	0.8 Megohm
Amplification Factor	42	45			
Grid No. 1 Voltage for $I_b = 10\mu a$			-5	-6	-8 Volts

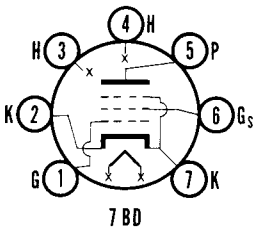
NOTES:

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

QUICK REFERENCE DATA

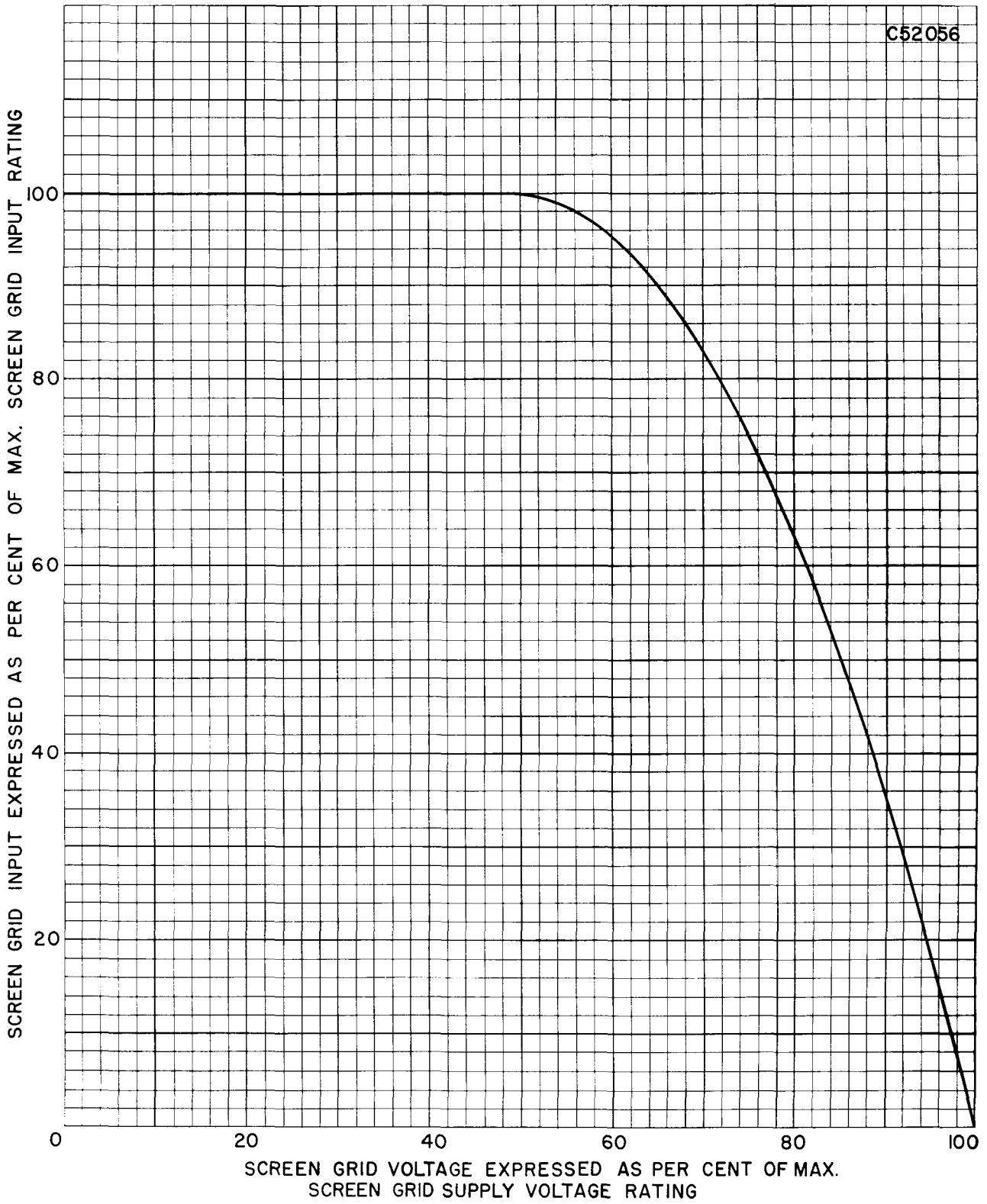
The Sylvania Type 6AG5 is a miniature sharp cutoff pentode designed for service as an if amplifier or rf amplifier at frequencies up to approximately 400 mc. The 6AG5 features low input and output capacitances and high gm. Isolation of input and output circuits is made possible through the use of two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



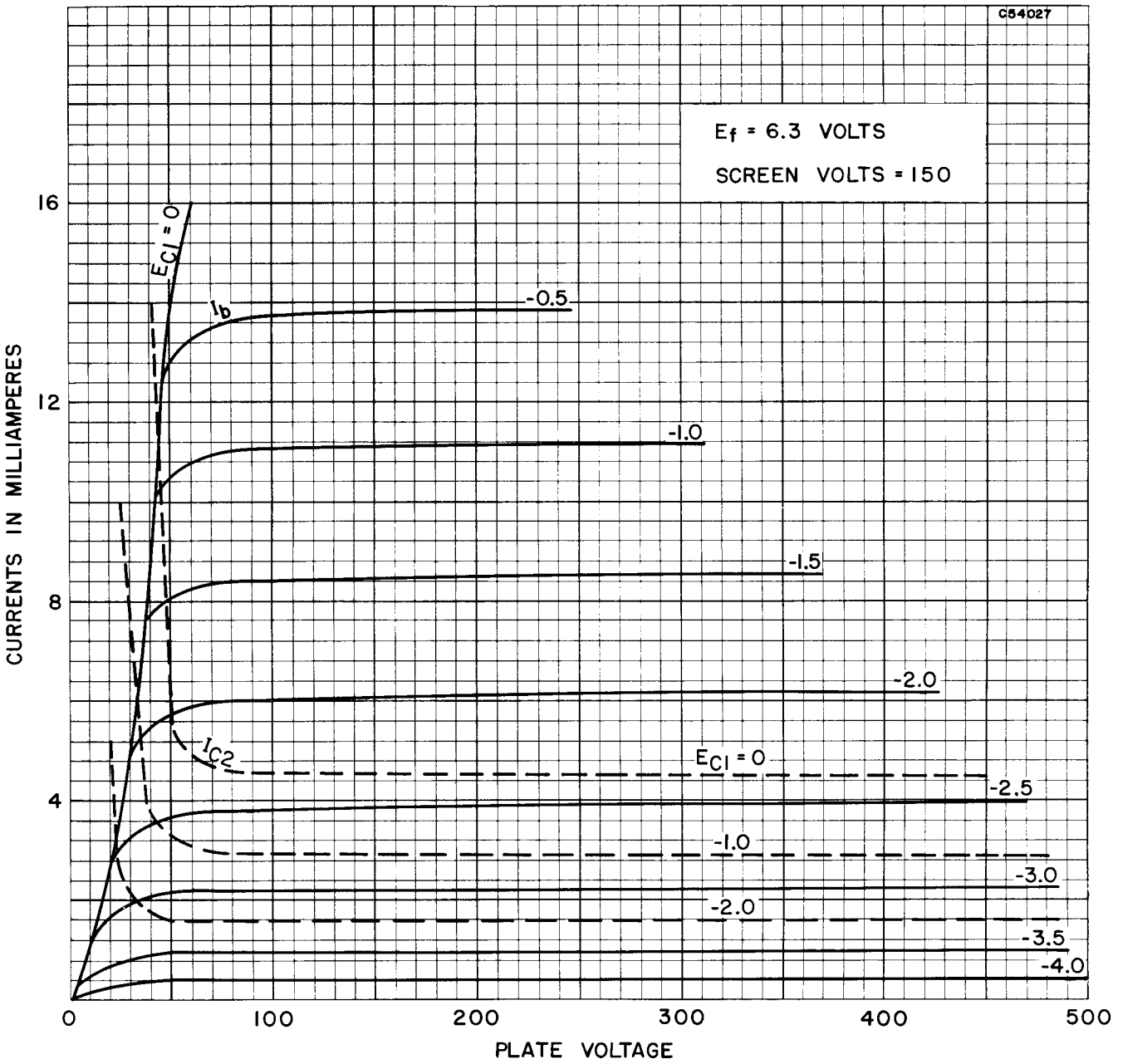
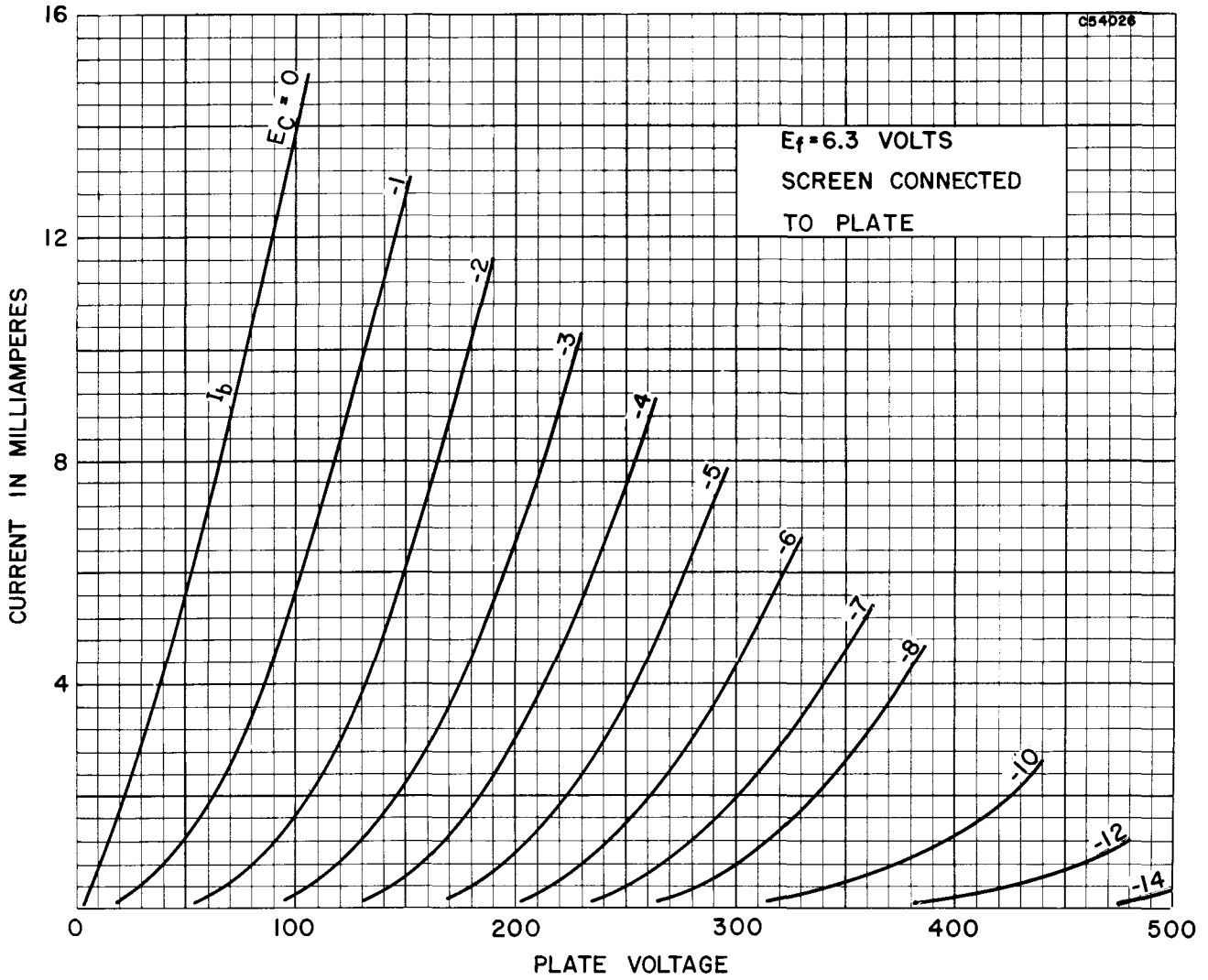


SYLVANIA ELECTRIC PRODUCTS INC.
RADIO TUBE DIVISION
Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA
AUGUST, 1954

SCREEN GRID RATING CHART



AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS
TRIODE CONNECTED