

MECHANICAL DATA

Bulb	T-61½
Base	E9-1, Miniature Button 9-Pin
Outline	6-2
Basing	Per Diagram
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage Range	12-15 Volts	
Heater Current at $E_f = 13.5$ Volts	280 Ma	
Heater-Cathode Voltage (Absolute Maximum Values)		
Heater Negative with Respect to Cathode	120 Volts	Max.
Heater Positive with Respect to Cathode	120 Volts	Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Triode		
Grid to Plate	2.2 $\mu\mu\text{f}$	
Input	2.4 $\mu\mu\text{f}$	
Output	0.22 $\mu\mu\text{f}$	
Pentode		
Grid to Plate	0.044 $\mu\mu\text{f}$	
Input	7.1 $\mu\mu\text{f}$	
Output	2.5 $\mu\mu\text{f}$	
Coupling: Pentode Grid No. 1 to Triode Plate	0.015 $\mu\mu\text{f}$	Max.
Coupling: Triode Grid to Pentode Plate	0.022 $\mu\mu\text{f}$	Max.
Coupling: Pentode Plate to Triode Plate	0.16 $\mu\mu\text{f}$	Max.

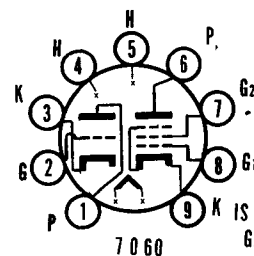
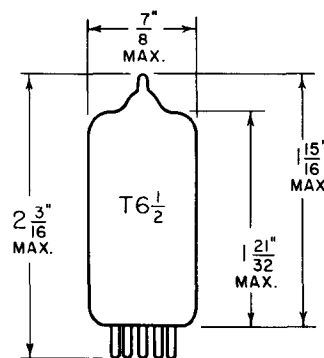
RATINGS (Absolute Maximum Values)

Class A1 Amplifier	Triode Section	Pentode Section	
Plate Voltage	300	300 Volts	Max.
Grid No. 2 Supply Voltage		300 Volts	Max.
Grid No. 2 Voltage	See Rating Chart		
Plate Dissipation	2.5	3.0 Watts	Max.
Grid No. 2 Dissipation		1.0 Watts	Max.
Positive Grid No. 1 Voltage	0	0 Volts	Max.
Grid No. 1 Circuit Resistance			
Fixed Bias	0.5	0.25 Megohm	Max.
Self Bias	1.0	1.0 Megohm	Max.

QUICK REFERENCE DATA

The Sylvania Type 7060 is a miniature medium mu triode sharp cutoff pentode intended for use in mobile communications equipment. Featuring a 13.5 volt heater, the 7060 is designed for dependable operation over the wide range of heater voltage encountered in this service.

Except for heater characteristics, the Type 7060 is similar to the 6AU8.



SYLVANIA ELECTRONIC TUBES

A Division of
Sylvania Electric Products Inc.

RECEIVING TUBE OPERATIONS EMPORIUM, PA.

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

NOVEMBER, 1959

PAGE 1 OF 13

File Under
RECEIVING TUBES

		(CCS)	
		RF Power Amp. & Osc. ¹	
		and	
(Class C Amplifier)		FM RF Power Amp.	
Plate Voltage		300	Volts Max.
Grid No. 3 Voltage		0	Volts Max.
Grid No. 2 Voltage		150	Volts Max.
Negative Grid No. 1 Voltage		50	Volts Max.
Positive Grid No. 1 Voltage		0	Volts Max.
Plate Current		20	Ma Max.
Grid No. 2 Current		7	Ma Max.
Grid No. 1 Current		3	Ma Max.
Plate Dissipation		2.75	Watts Max.
Grid No. 2 Dissipation		0.8	Watt Max.
Grid No. 1 Circuit Resistance		0.1	Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION

(Class A1 Amplifier)	Triode Section	Pentode Section
Plate Voltage	150	200 Volts
Grid No. 2 Voltage		125 Volts
Cathode Bias Resistor	150	82 Ohms
Amplification Factor	40	
Plate Resistance (Approx.)	0.0082	0.15 Megohm
Transconductance	4900	7000 μ mhos
Plate Current	9.0	15 Ma
Grid No. 2 Current		3.4 Ma
EC1 for I _b = 100 μ a (Approx.)	-6.5	-8.0 Volts

		RF Power Amp. & Osc. ¹	
		and	
(Class C Amplifier)		FM RF Power Amp.	
Plate Voltage	200	250	300 Volts
Grid No. 3	Connected to Cathode		
Grid No. 2 Voltage	85	105	125 Volts
Grid No. 1 Voltage	-7	-9	-11 Volts
Plate Current	11	15	20 Ma
Grid No. 2 Current	3.2	4.5	6 Ma
Grid No. 1 Current (Approx.)	0.9	1.2	1.6 Ma
Driving Power (Approx.)	9	15	25 Mw
Power Output	1.3	2.1	3.5 Watts

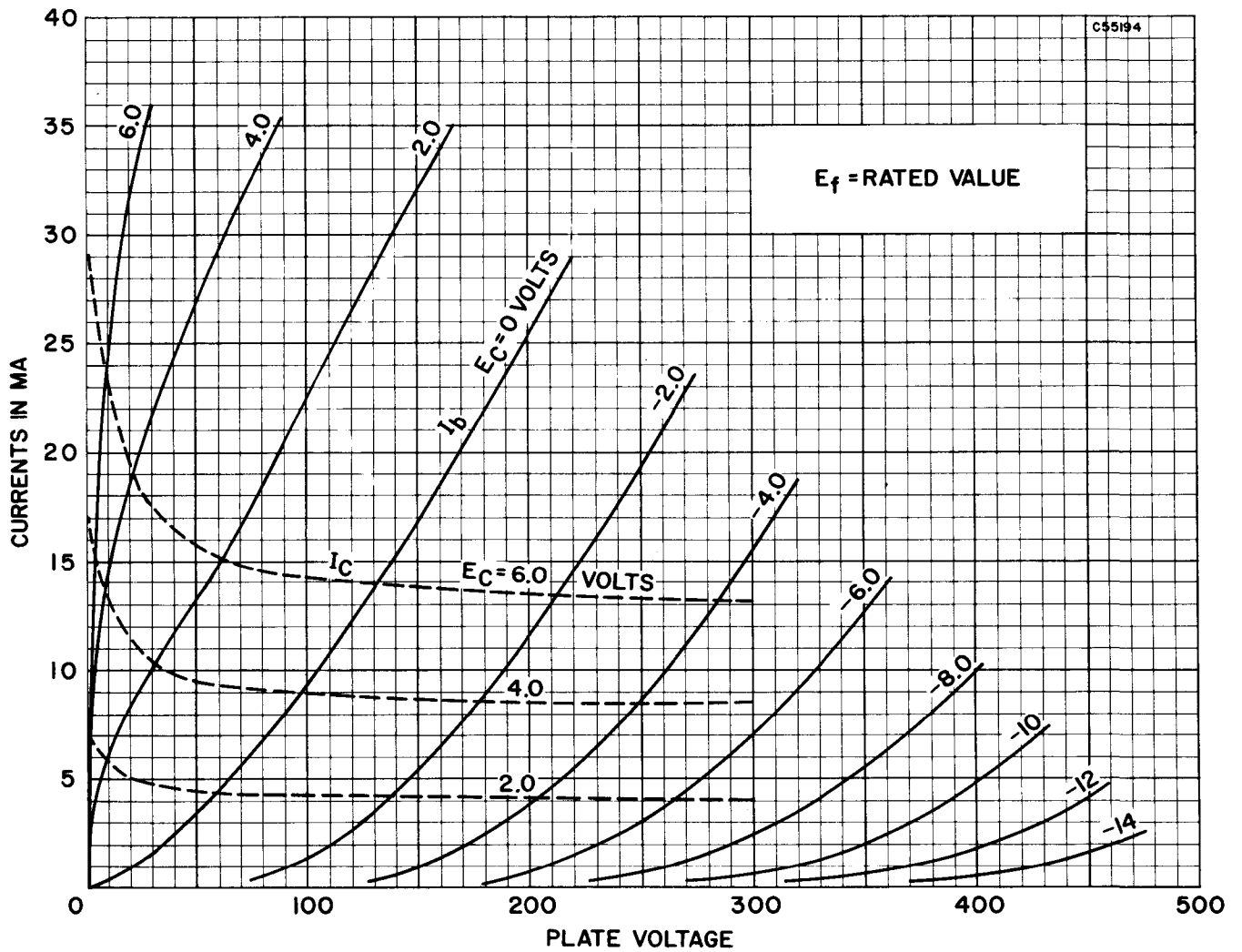
SPECIAL TESTS

Heater Cycling Life Test	
Ef = 17.0 V; 1 min. on, 4 min. off;	
Ehk = -150 Vdc	2000 Cycles Min.
Low Frequency Vibration: Ep	
G = 2.5 @ 25 cps	
Triode Section	150 mVac Max.
Pentode Section	250 mVac Max.

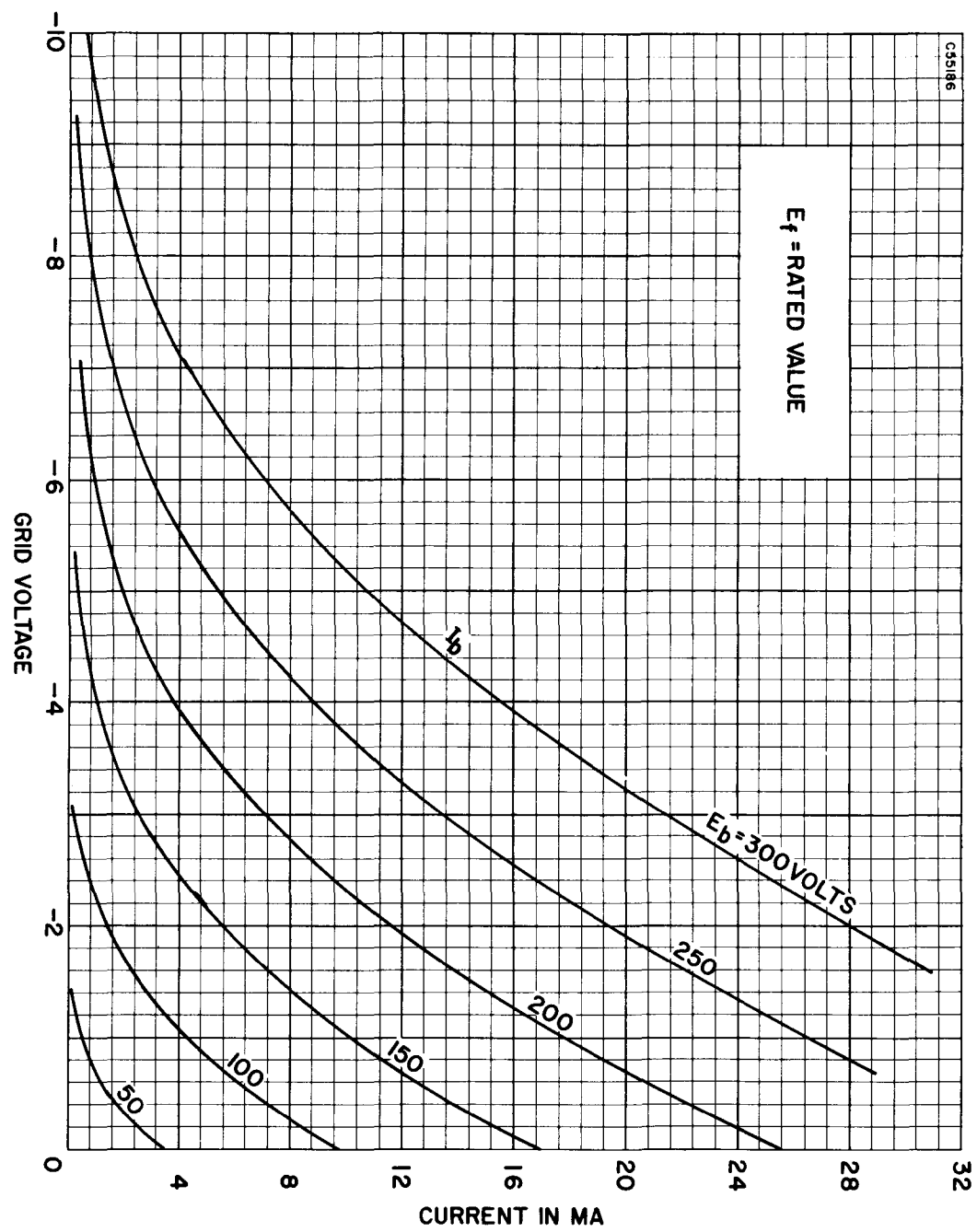
NOTE:

1. Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.

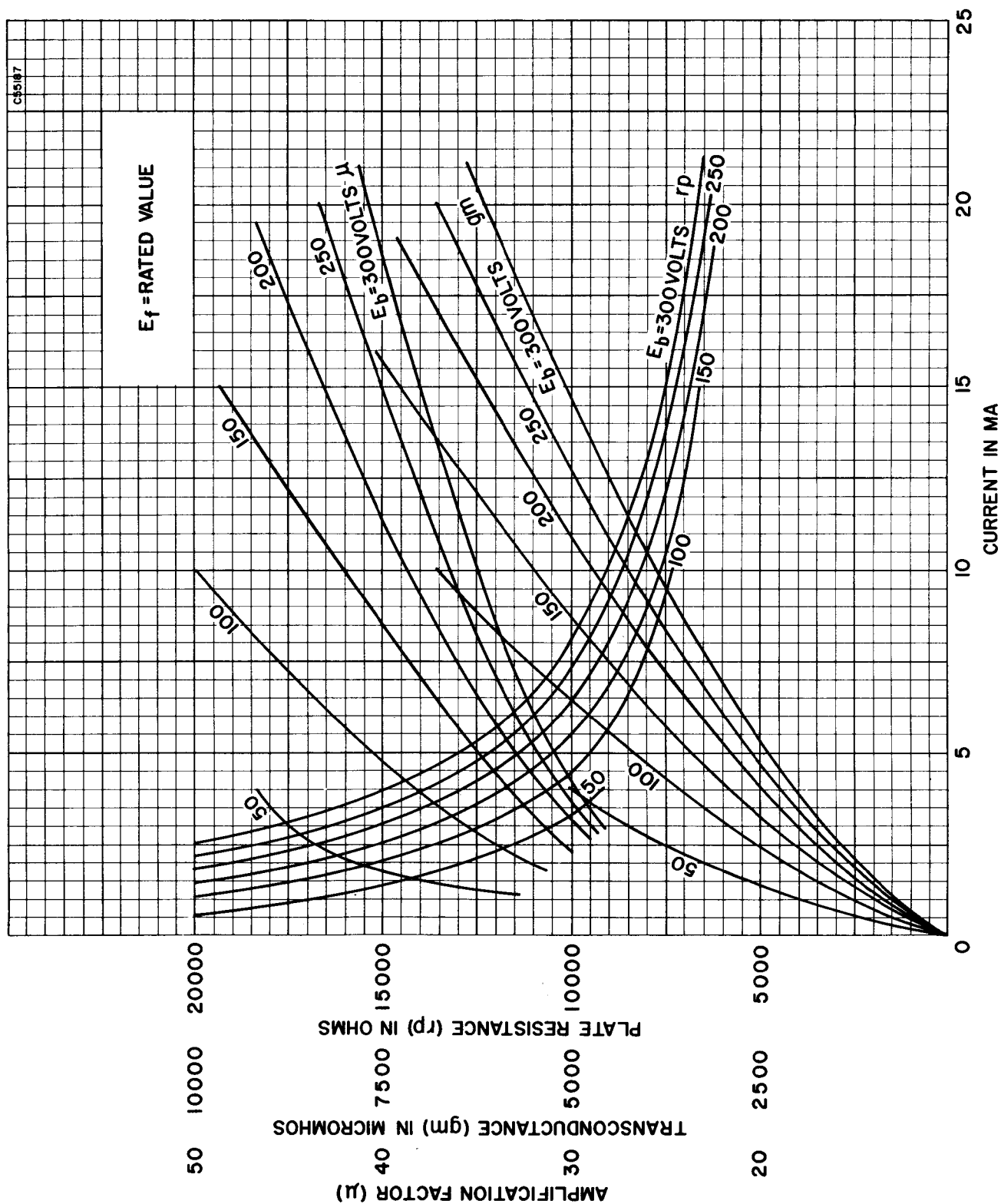
AVERAGE PLATE CHARACTERISTICS
(TRIODE SECTION)

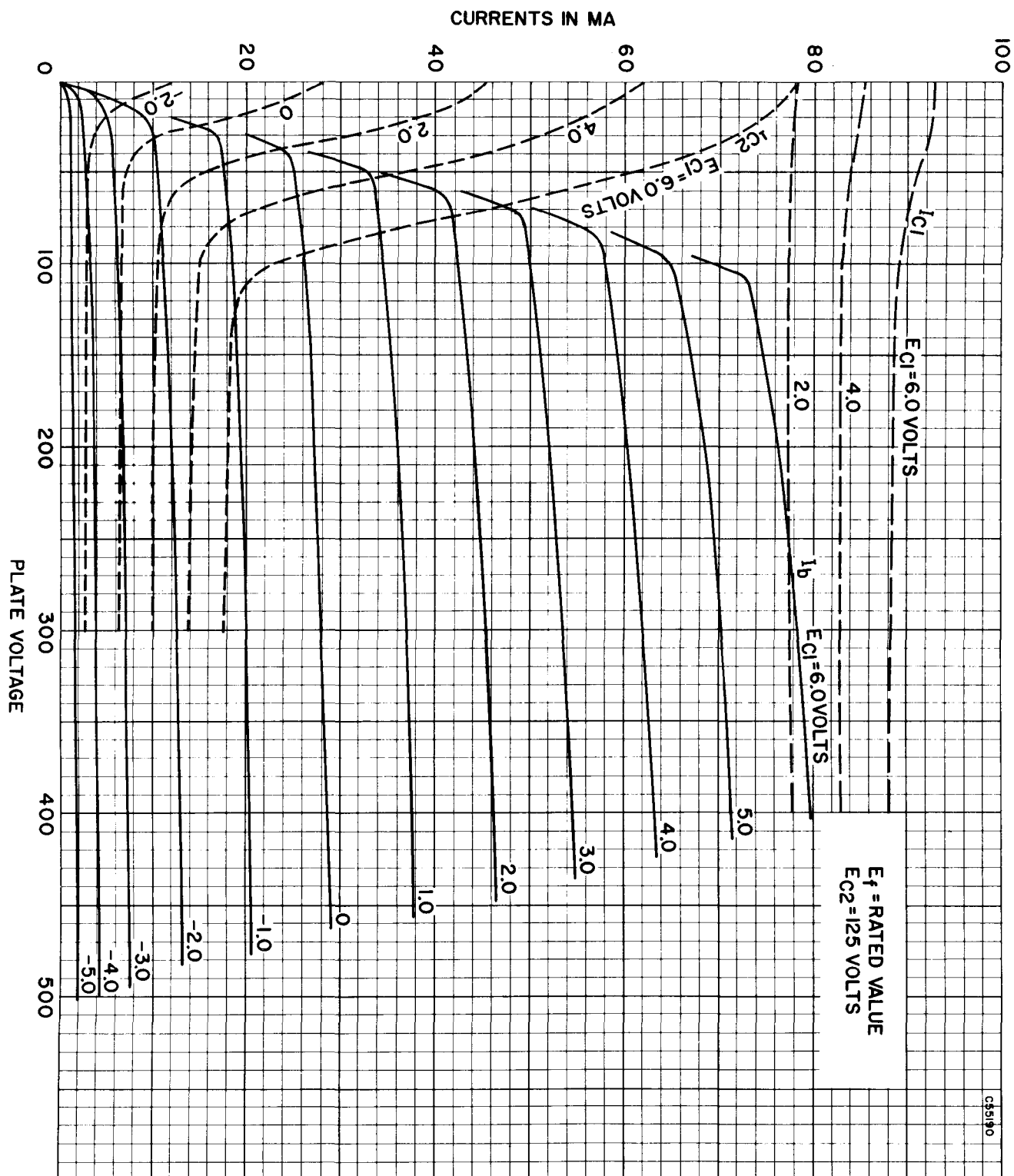


AVERAGE TRANSFER CHARACTERISTICS
(TRIODE SECTION)

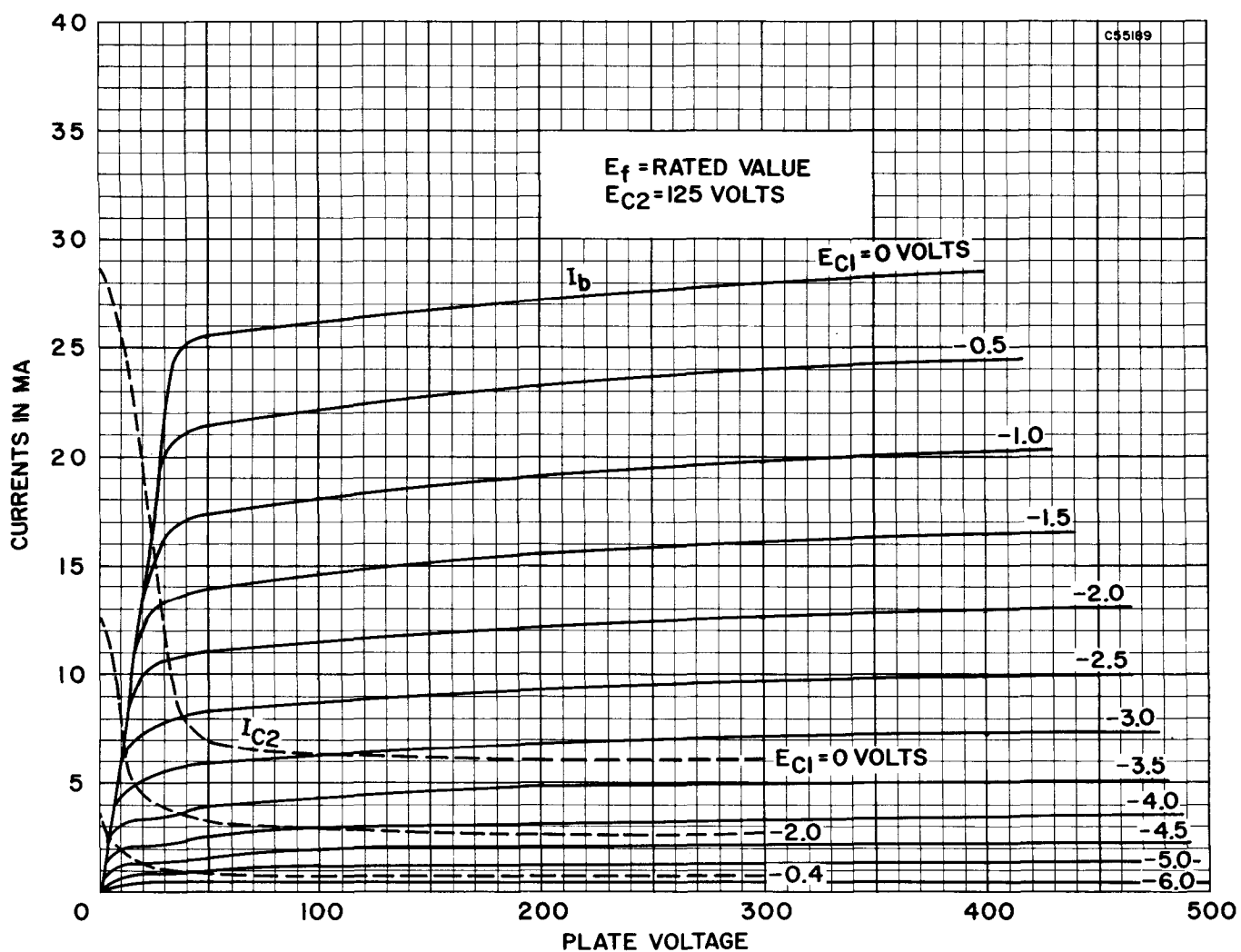


AVERAGE TRANSFER CHARACTERISTICS
(TRIODE SECTION)

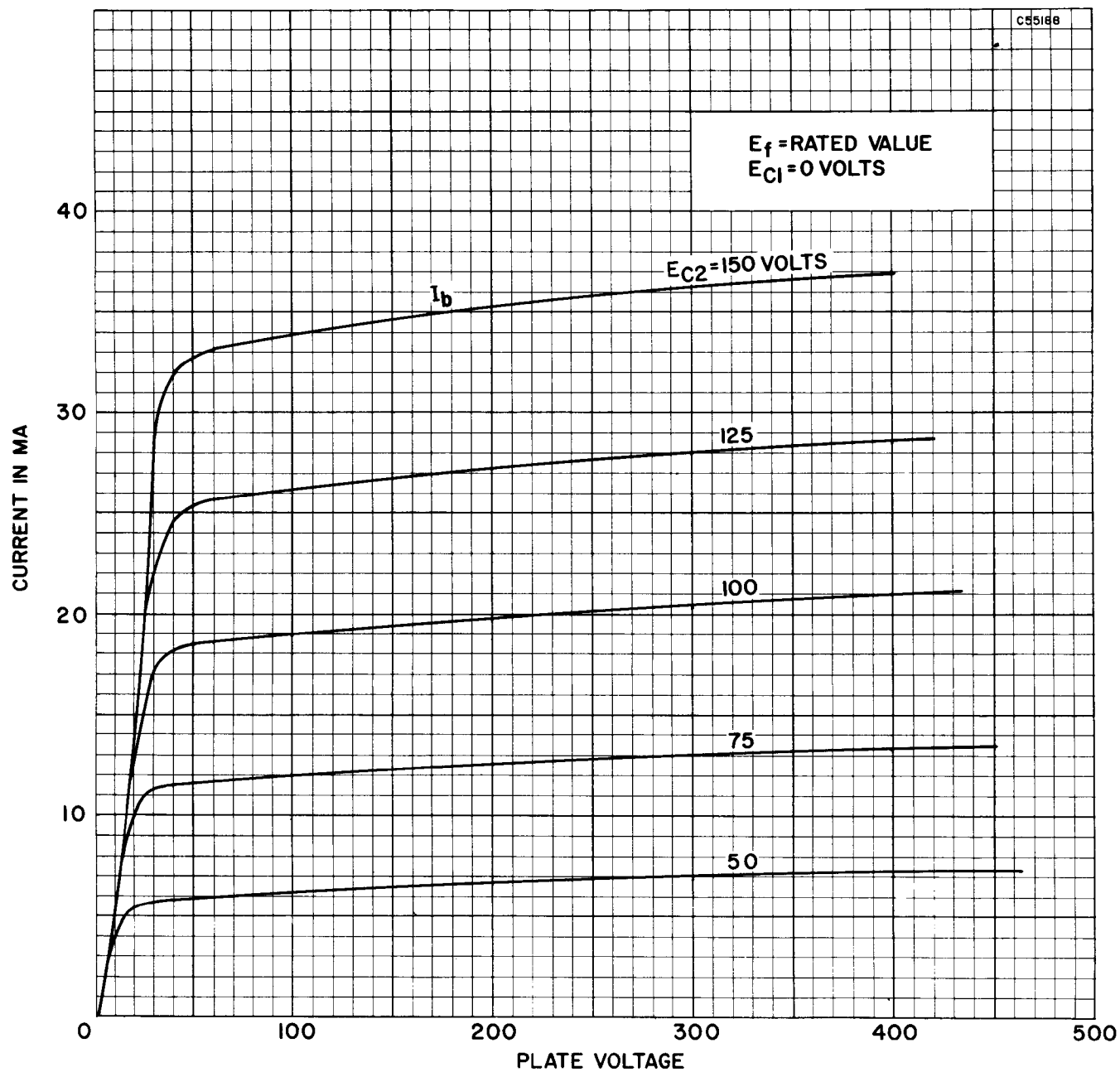




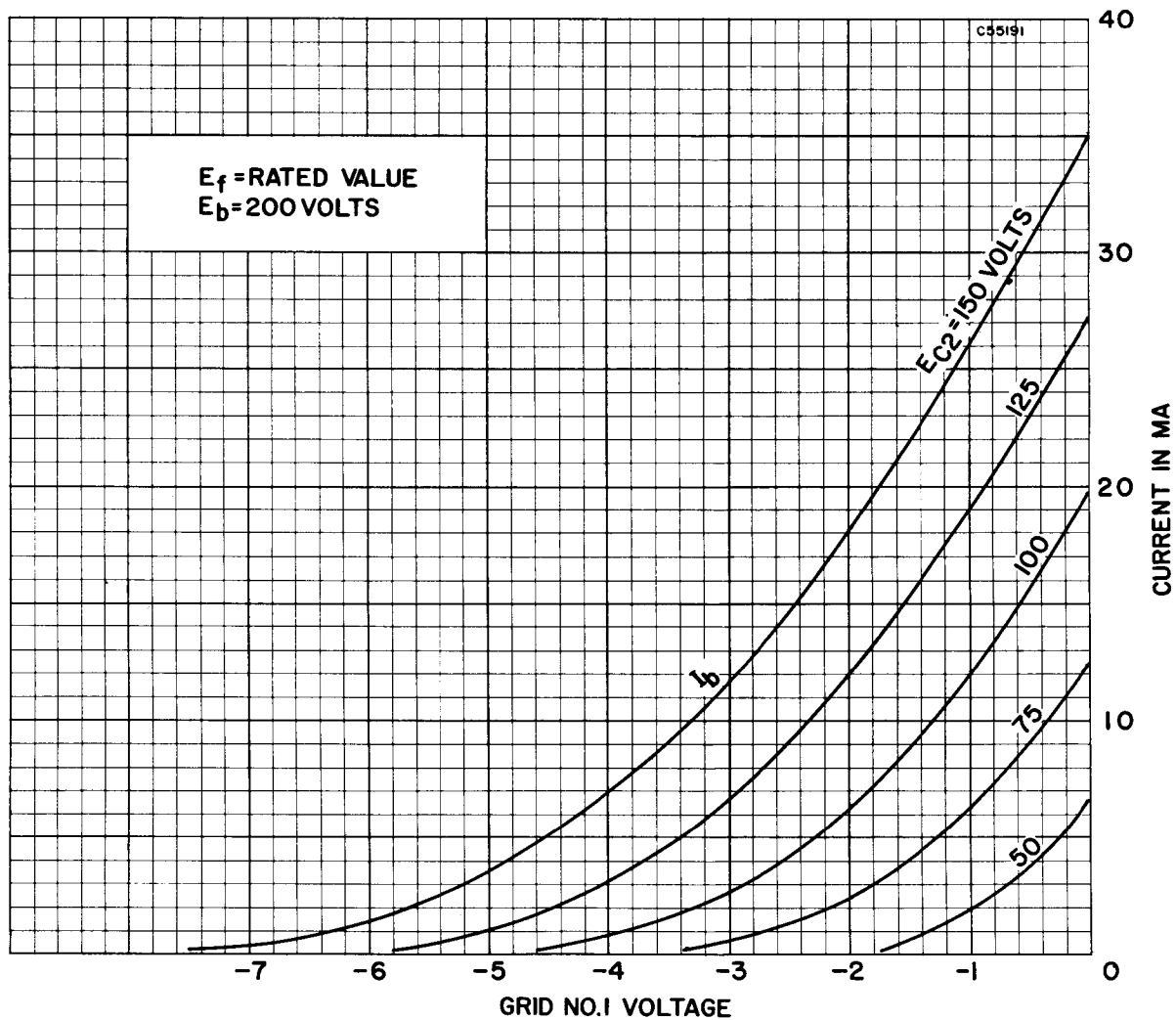
AVERAGE PLATE CHARACTERISTICS
(PENTODE SECTION)



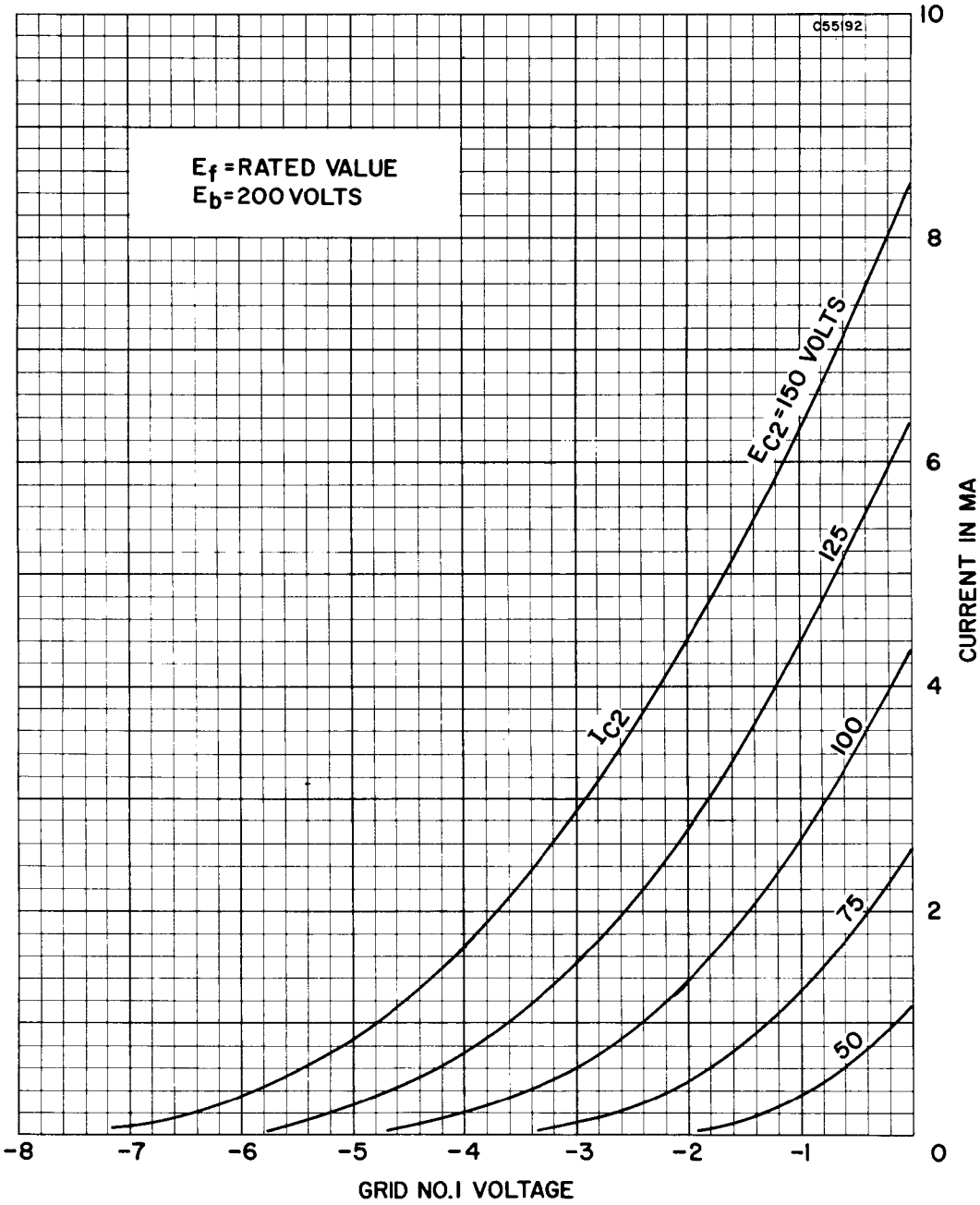
AVERAGE PLATE CHARACTERISTICS
(PENTODE SECTION)



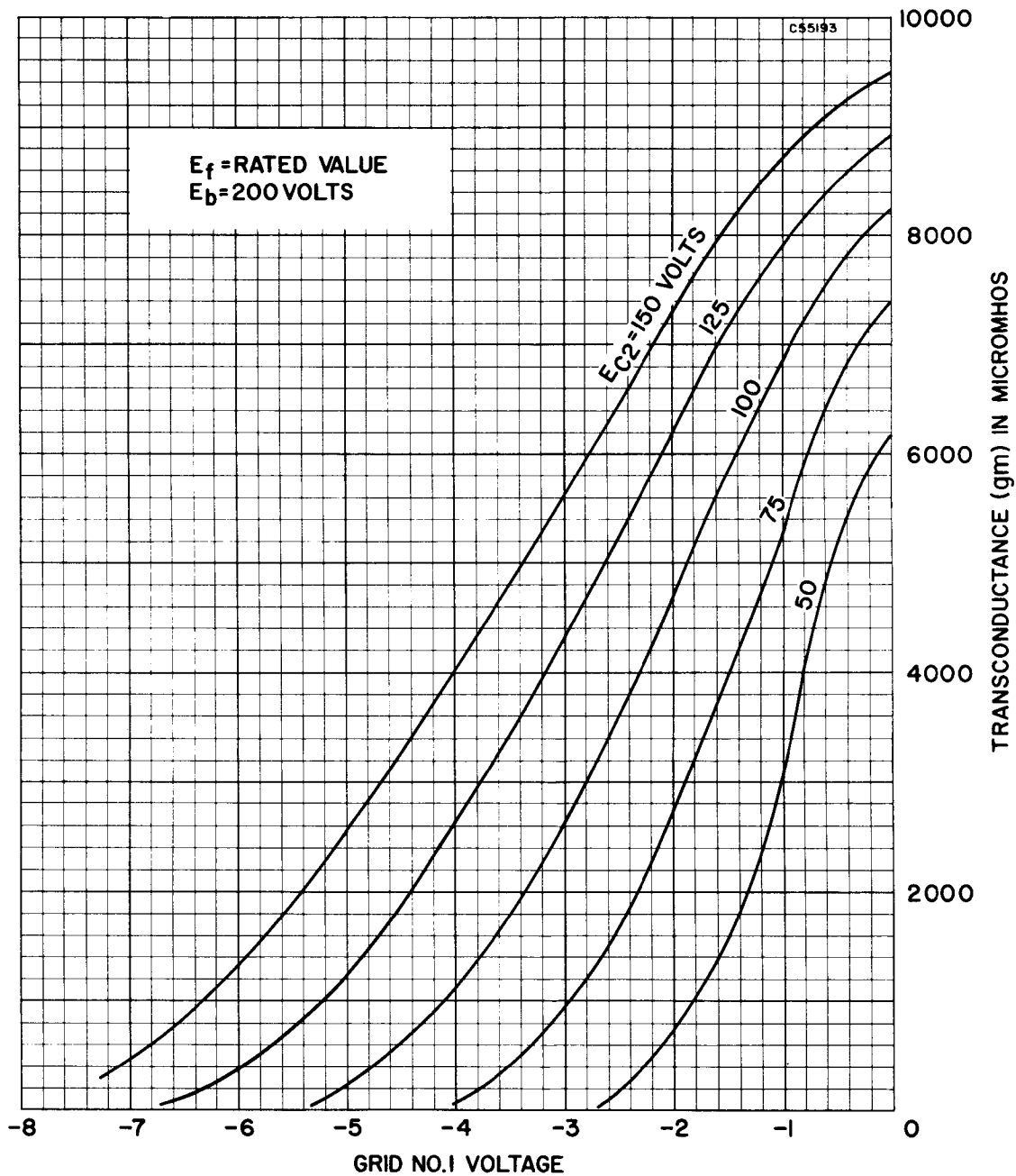
AVERAGE TRANSFER CHARACTERISTICS
(PENTODE SECTION)



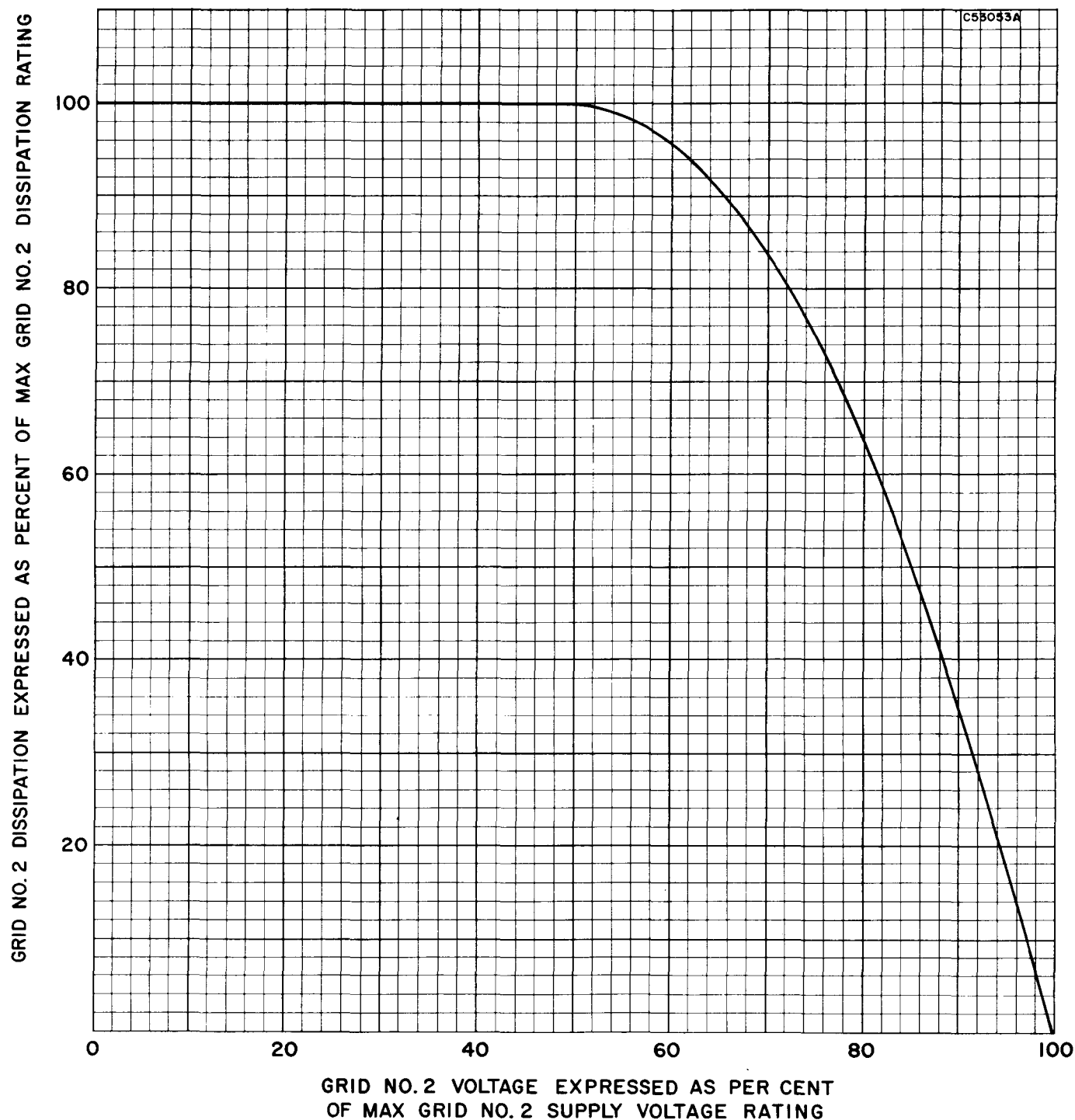
AVERAGE TRANSFER CHARACTERISTICS
(PENTODE SECTION)



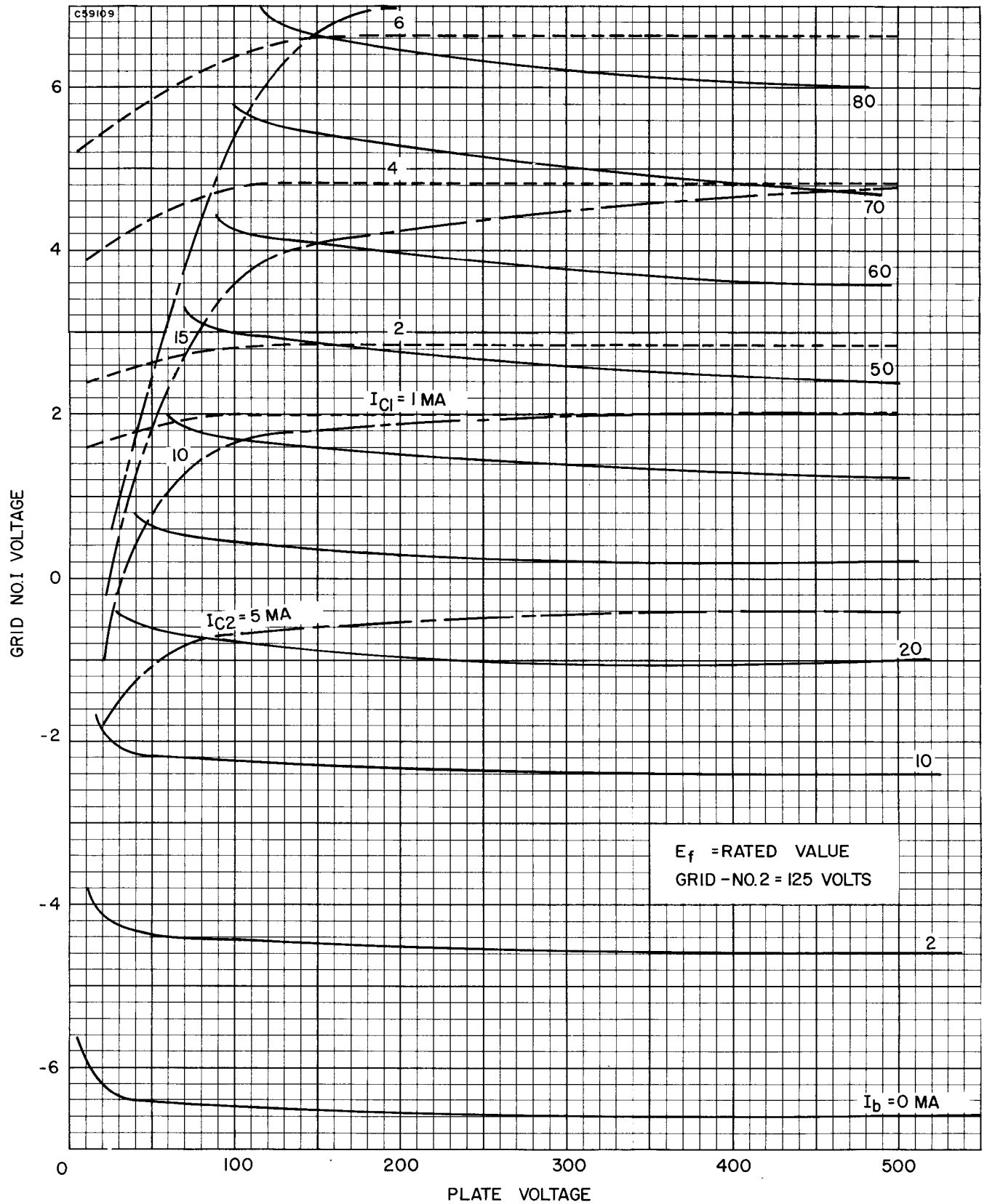
AVERAGE TRANSFER CHARACTERISTICS
(PENTODE SECTION)



GRID NO. 2 RATING CHART



AVERAGE CONSTANT CURRENT CHARACTERISTICS



A Technical Publication of
**SYLVANIA ELECTRIC
PRODUCTS INC.**
EMPORIUM, PA.

