

MECHANICAL DATA

Bulb	T-5 $\frac{1}{2}$
Base	E7-1, Miniature Button, 7-Pin
Outline	5-2
Basing	7CH
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts
Heater Current	300 Ma
Peak Heater Cathode Voltage	
Heater Positive	90 Volts Max.
Heater Negative	90 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate	0.08 μ f Max.
Grid No. 3 to Plate	0.35 μ f Max.
Grid No. 1 to Grid No. 3	0.2 μ f Max.
Grid No. 1 to All Other Electrodes and Heater	5.4 μ f
Grid No. 3 to All Other Electrodes and Heater	6.9 μ f
Plate to All Other Electrodes and Heater	7.6 μ f

RATINGS (Absolute Values)

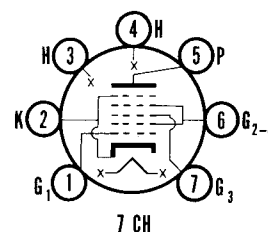
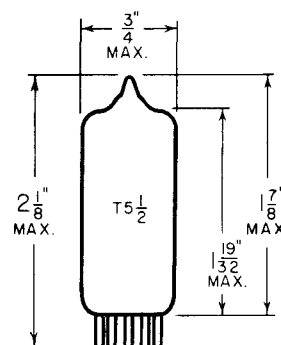
Gated Amplifier in Computer Service and "On-Off" Control Service

Plate Voltage	250 Volts Max.
Grids No. 2 and No. 4 Voltage	See Rating Chart
Grids No. 2 and No. 4 Supply Voltage	250 Volts Max.
Grid No. 3 Supply Voltage	
Negative Bias Value	100 Volts Max.
Positive Bias Value	0 Volts Max.
Peak Negative Value	200 Volts Max.
Peak Positive Value	90 Volts Max.
Grid No. 1 Supply Voltage	
Negative Bias Value	100 Volts Max.
Positive Bias Value	0 Volts Max.
Peak Negative Value	200 Volts Max.
Peak Positive Value	Limited in Any Application by the Peak Cathode Current and the Grid No. 1 Input

Plate Dissipation	1 Watt	Max.
Grid No. 3 Input	0.5 Watt	Max.
Grids No. 2 and No. 4 Input	1 Watt	Max.
Grid No. 1 Input	0.5 Watt	Max.
DC Cathode Current	20 Ma	Max.
Peak Cathode Current	70 Ma	Max.
Grid No. 1 or Grid No. 3 Circuit Resistance		
Fixed Bias	0.5 Megohm	Max.
Cathode Bias	1.0 Megohm	Max.
Bulb Temperature (At Hottest Point)	120° C	Max.

QUICK REFERENCE DATA

The Sylvania Type 5915A is a miniature, dual control heptode designed for service in electronic computers and other control applications involving long periods of operation under cutoff conditions.



**SYLVANIA ELECTRIC
PRODUCTS INC.**

**RADIO TUBE DIVISION
EMPORIUM, PA.**

*Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA*

APRIL, 1957

PAGE 1 OF 12

5915A

PAGE 2

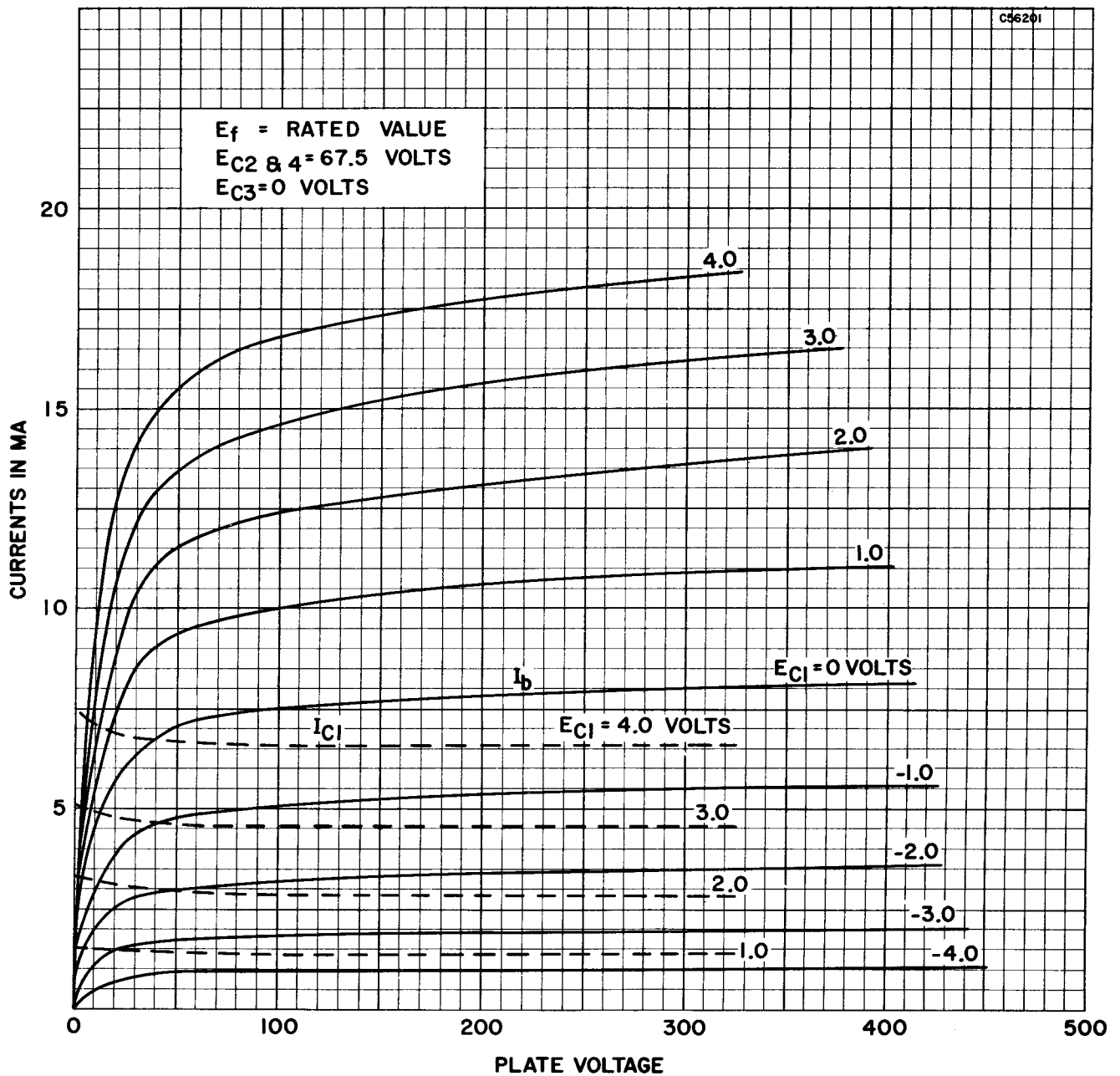
CHARACTERISTICS**Class A Amplifier**

Plate Voltage	67.5	67.5 Volts
Grids No. 2 and No. 4 Voltage	67.5	67.5 Volts
Grid No. 3 Voltage	0	-4 Volts
Grid No. 1 Voltage	0	0 Volts
Grid No. 1		
Transconductance	2400	μ mhos
Grid No. 3		
Transconductance		1700 μ mhos

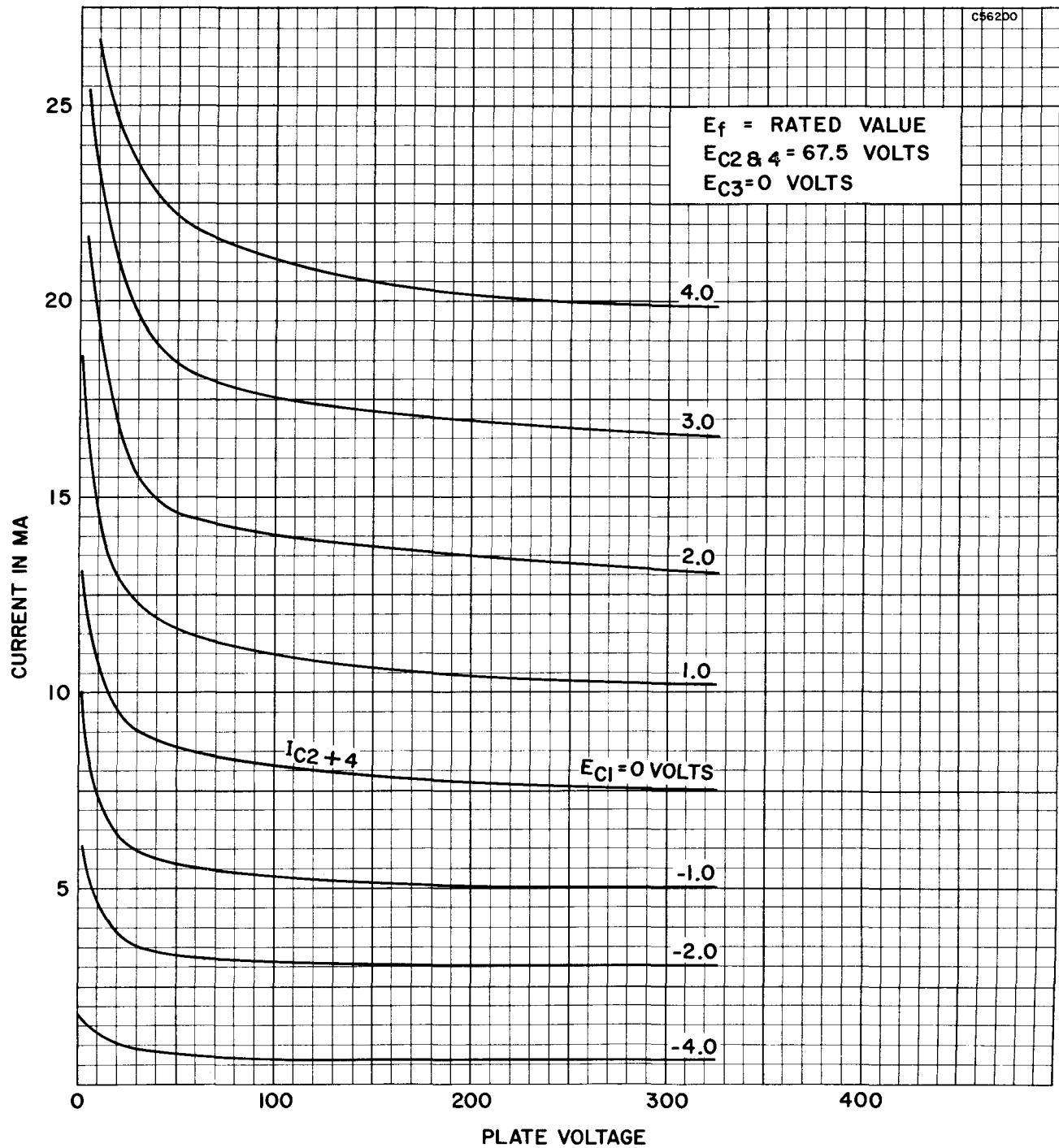
TYPICAL OPERATION

	Cutoff Condition		Zero Bias Condition
	Grid No. 1 Control	Grid No. 3 Control	
Plate Supply Voltage	150	150	150 Volts
Grid No. 3 Supply Voltage	0	-10	0 Volts
Grids No. 2 and No. 4 Supply Voltage	75	75	75 Volts
Grid No. 1 Supply Voltage	-10	0	0 Volts
Plate Circuit Resistance	20,000	20,000	20,000 Ohms
Grid No. 3 Circuit Resistance	47,000	47,000	47,000 Ohms
Grids No. 2 and No. 4 Series Resistor	470	470	470 Ohms
Grid No. 1 Circuit Resistance	47,000	47,000	47,000 Ohms
Plate Current	0	0	5.8 Ma
Grids No. 2 and No. 4 Current	0	14	9 Ma

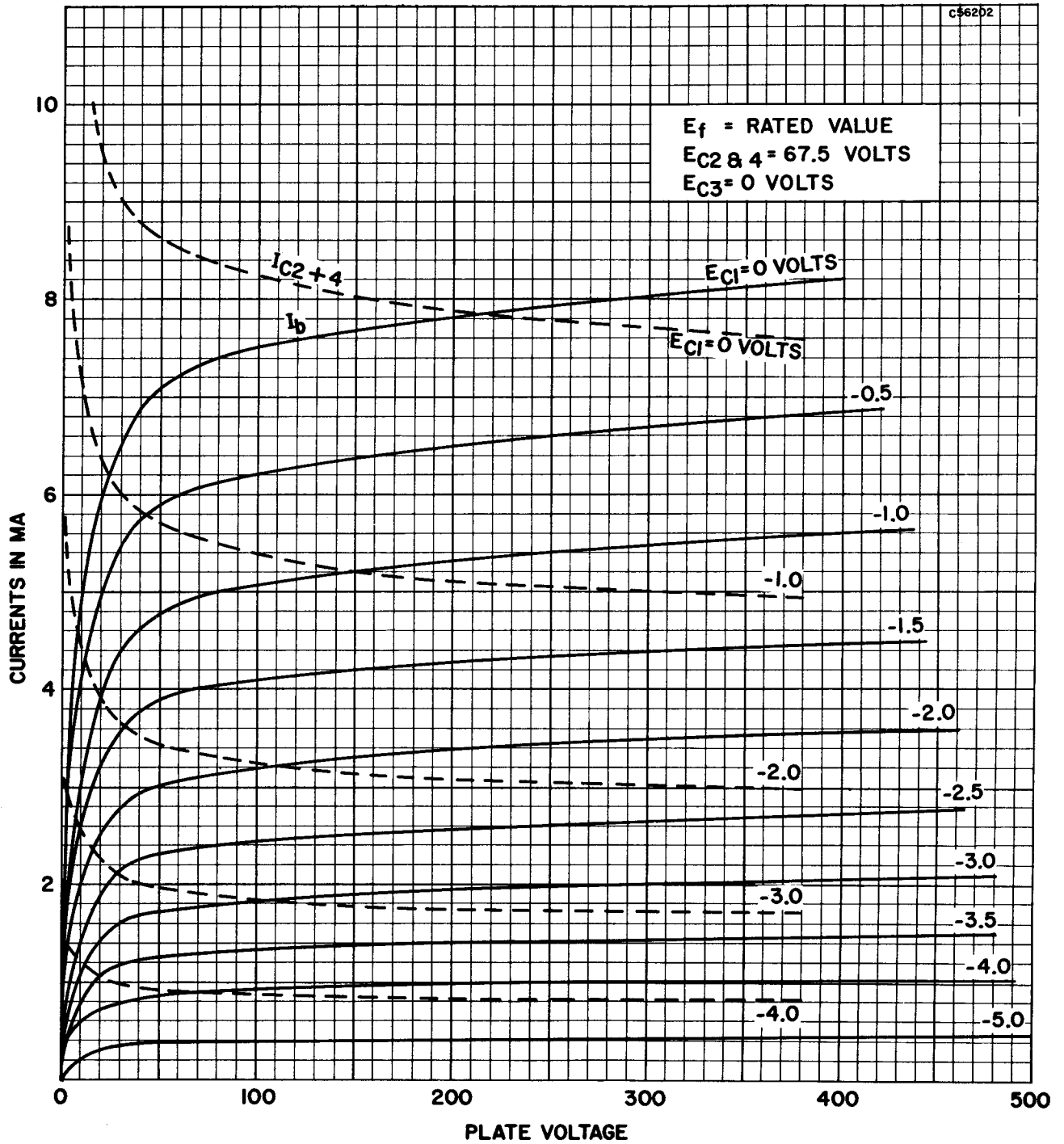
AVERAGE PLATE CHARACTERISTICS



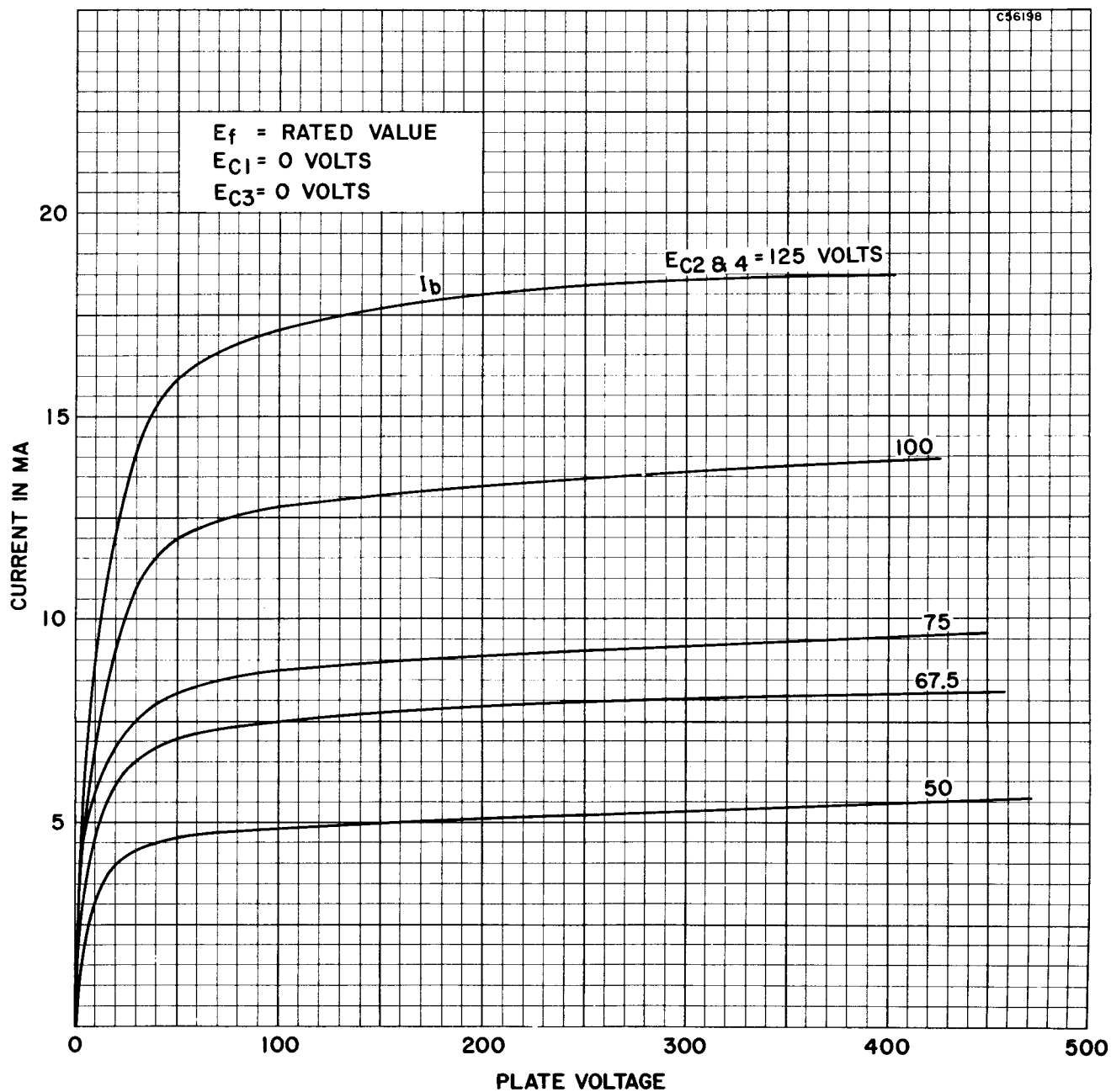
AVERAGE SCREEN CHARACTERISTICS



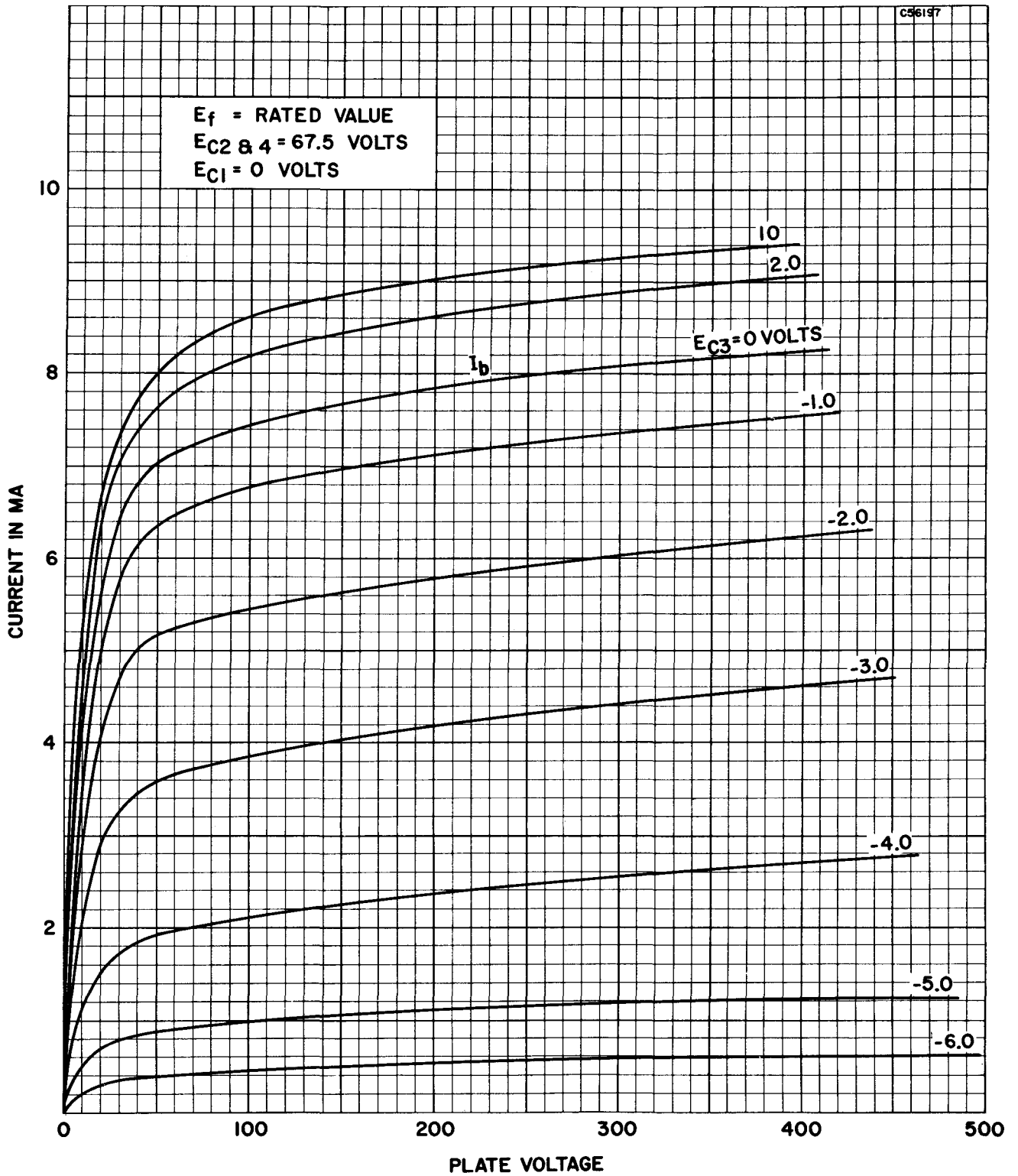
AVERAGE PLATE CHARACTERISTICS



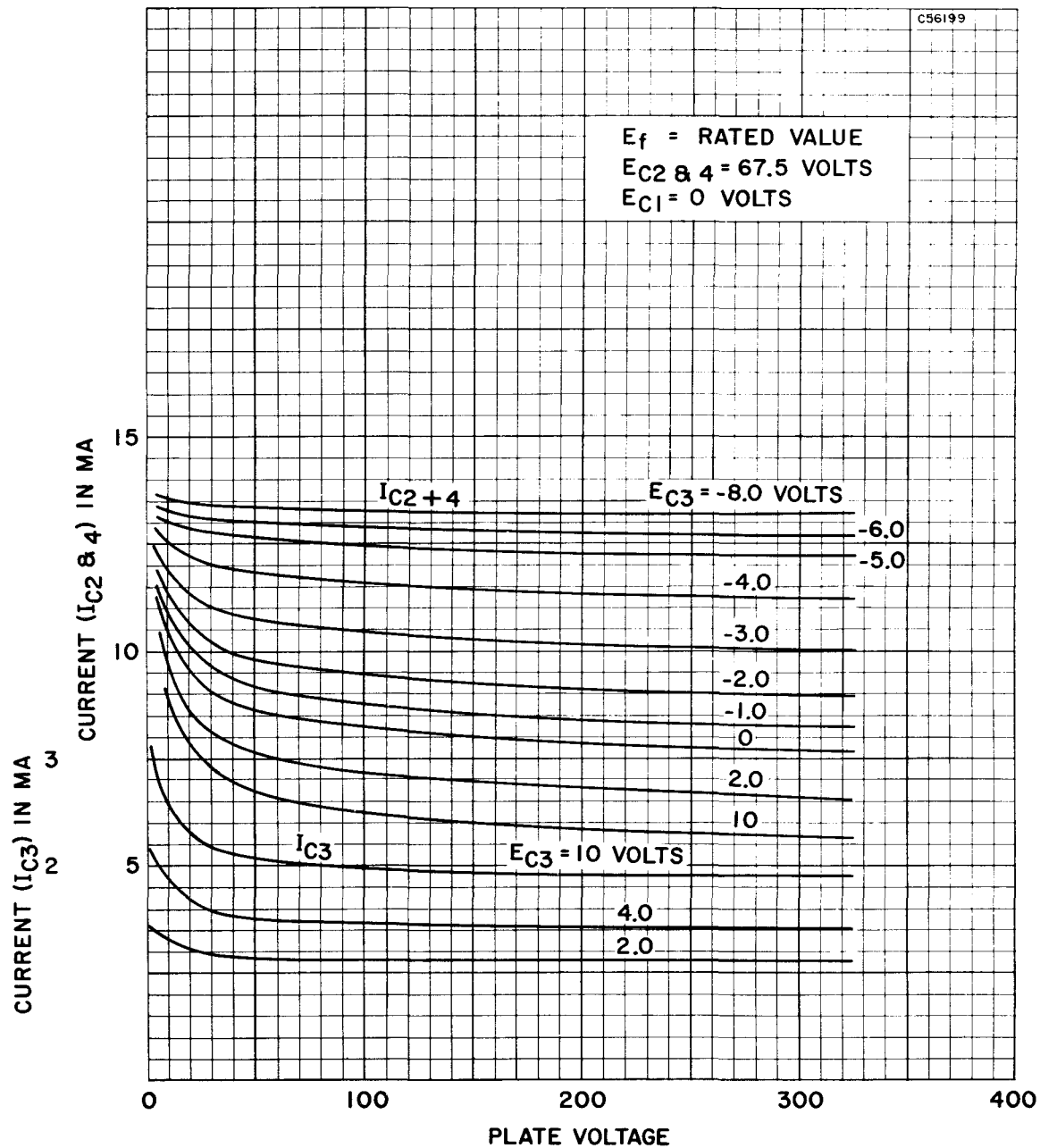
AVERAGE PLATE CHARACTERISTICS



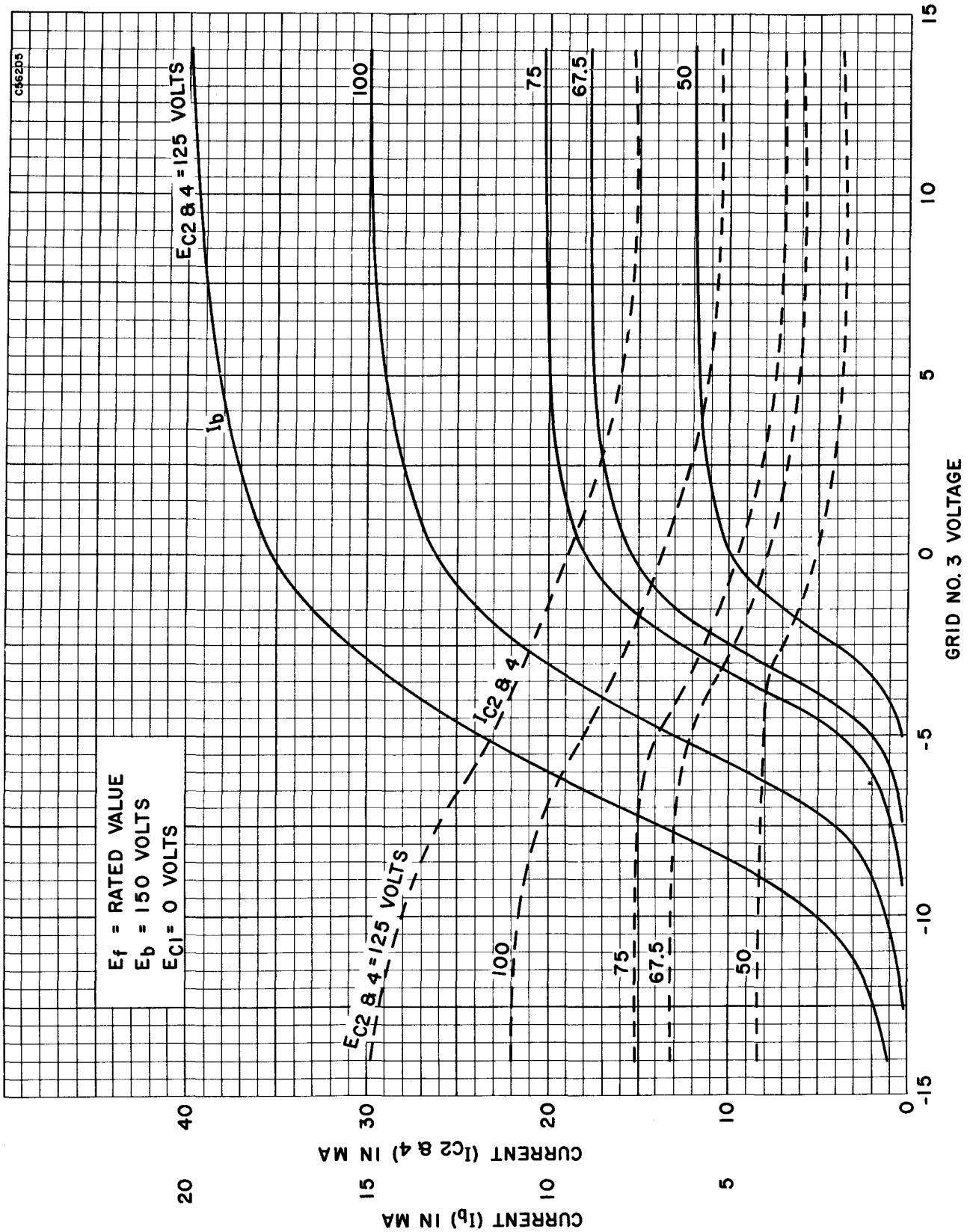
AVERAGE PLATE CHARACTERISTICS



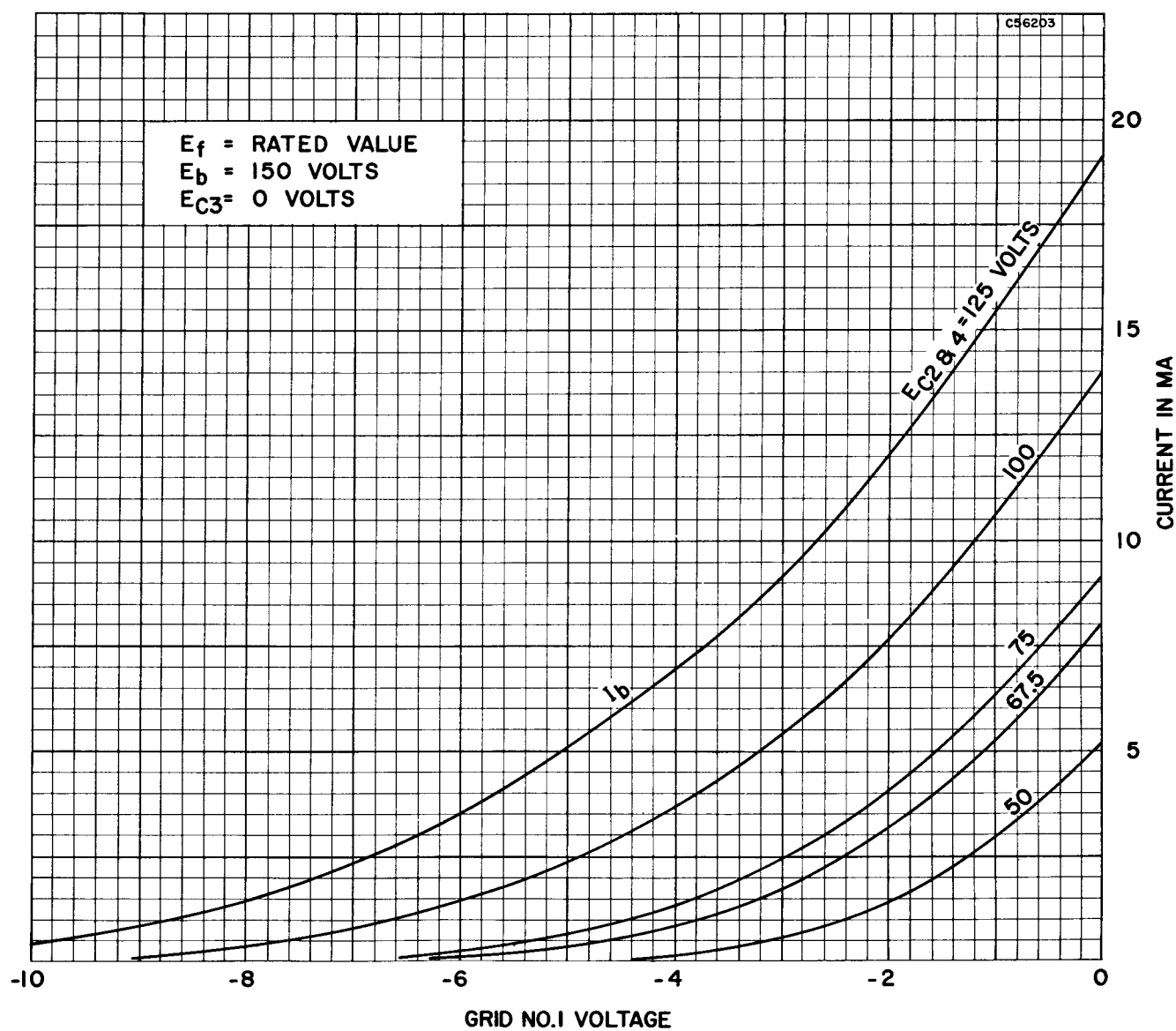
AVERAGE SCREEN CHARACTERISTICS



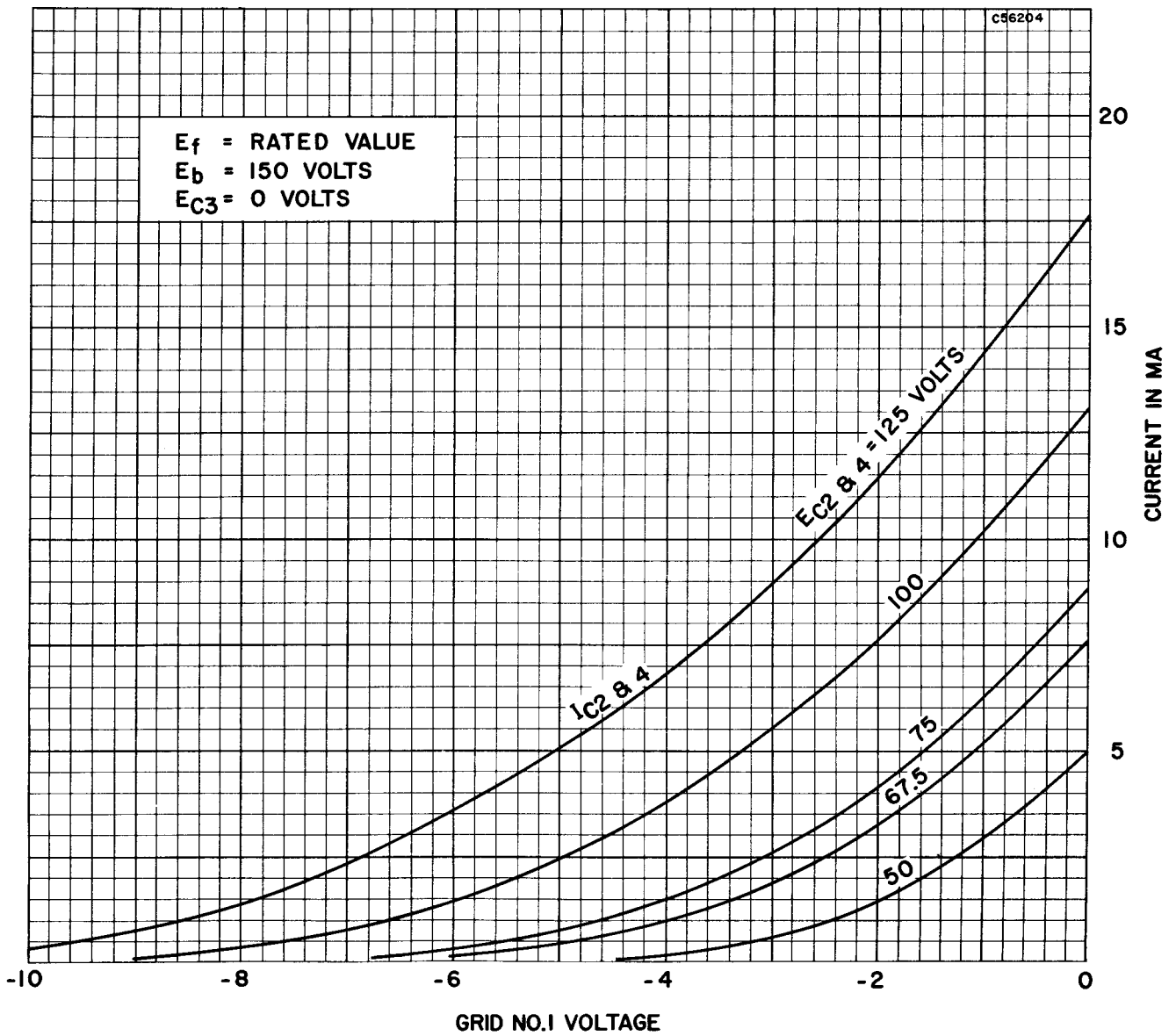
AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



RATING CHART

