

**MECHANICAL DATA**

Bulb . . . . .	T-6 1/2
Base . . . . .	E9-1, Small Button 9-Pin
Outline . . . . .	6-2
Basing . . . . .	9CF
Cathode . . . . .	Coated Unipotential
Mounting Position . . . . .	Any

**ELECTRICAL DATA**

**HEATER CHARACTERISTICS**

Heater Voltage Series/Parallel . . . . .	12.6/6.3 Volts
Heater Current . . . . .	225/450 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode	
Total DC and Peak . . . . .	200 Volts Max.
Heater Positive with Respect to Cathode	
DC . . . . .	100 Volts Max.
Total DC and Peak . . . . .	200 Volts Max.

**DIRECT INTERELECTRODE CAPACITANCES (Shielded)<sup>1</sup>**

Triode Grid to Plate . . . . .	1.9 $\mu\text{mf}$
Triode Input . . . . .	2.8 $\mu\text{mf}$
Triode Output . . . . .	1.0 $\mu\text{mf}$
Diode Input (Each Diode) . . . . .	2.0 $\mu\text{mf}$

**RATINGS (Design Center Values)**

Plate Voltage (Triode) . . . . .	300 Volts Max.
Plate Dissipation (Triode) . . . . .	2.5 Watts Max.
Peak Inverse Diode Voltage . . . . .	300 Volts Max.
Peak Diode Current . . . . .	60 Ma Max.

**CHARACTERISTICS AND TYPICAL OPERATION**

**Class A<sub>1</sub> Amplifier**

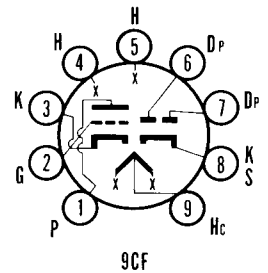
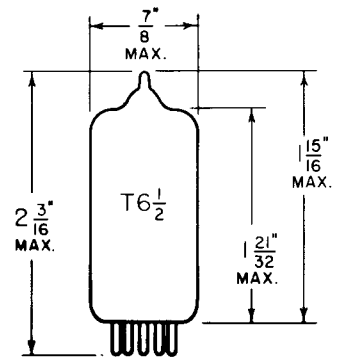
Plate Voltage . . . . .	100	250 Volts
Cathode Bias Resistor . . . . .	270	200 Ohms
Amplification Factor . . . . .	60	60
Plate Resistance (approx.) . . . . .	15000	10900 Ohms
Transconductance . . . . .	4000	5500 $\mu\text{mhos}$
Plate Current . . . . .	3.7	10 Ma
Grid Voltage (Approx.) for		
$I_b = 10 \mu\text{a}$ . . . . .	-5	-12 Volts
Average Diode Current, Each Diode		
with 5.0 Volts DC Applied . . . . .		17 Ma

**NOTE:**

1. Shield No. 315

**QUICK REFERENCE DATA**

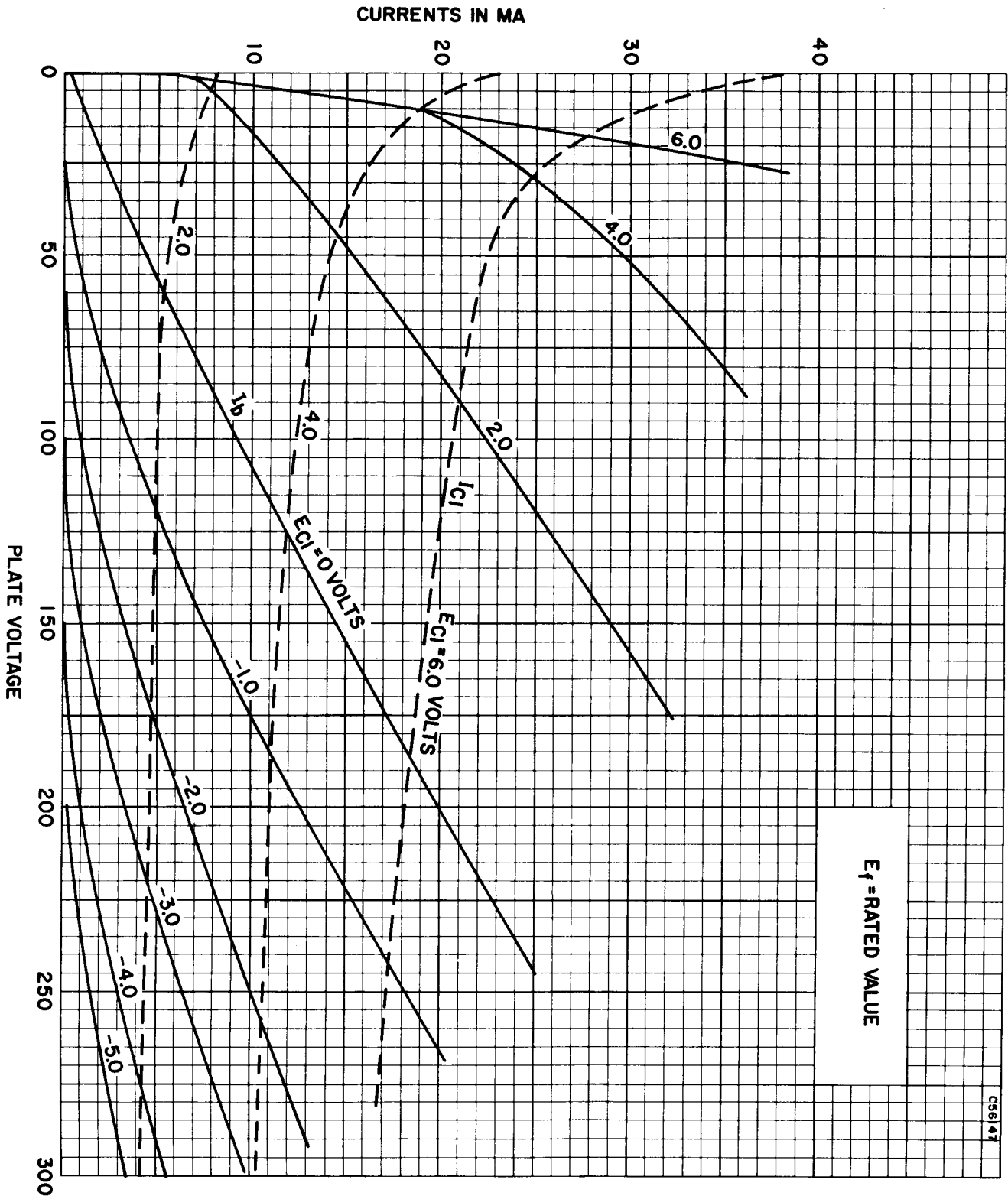
The Sylvania Type 12BR7 is a miniature high mu triode duo diode intended for application in monochrome and color television receivers.



**SYLVANIA ELECTRIC PRODUCTS INC.**  
**RADIO TUBE DIVISION**  
**EMPORIUM, PA.**

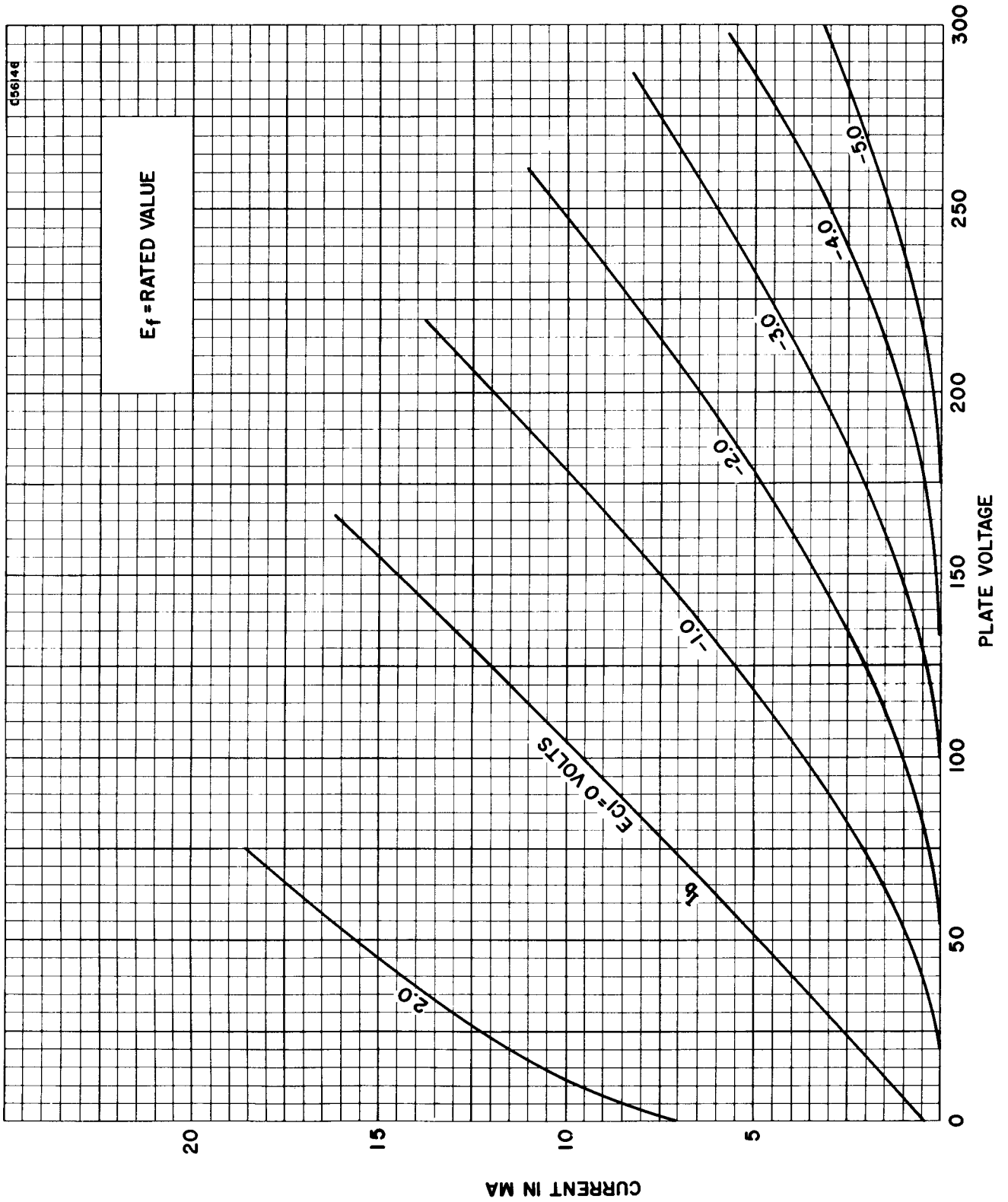
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AVERAGE PLATE CHARACTERISTICS



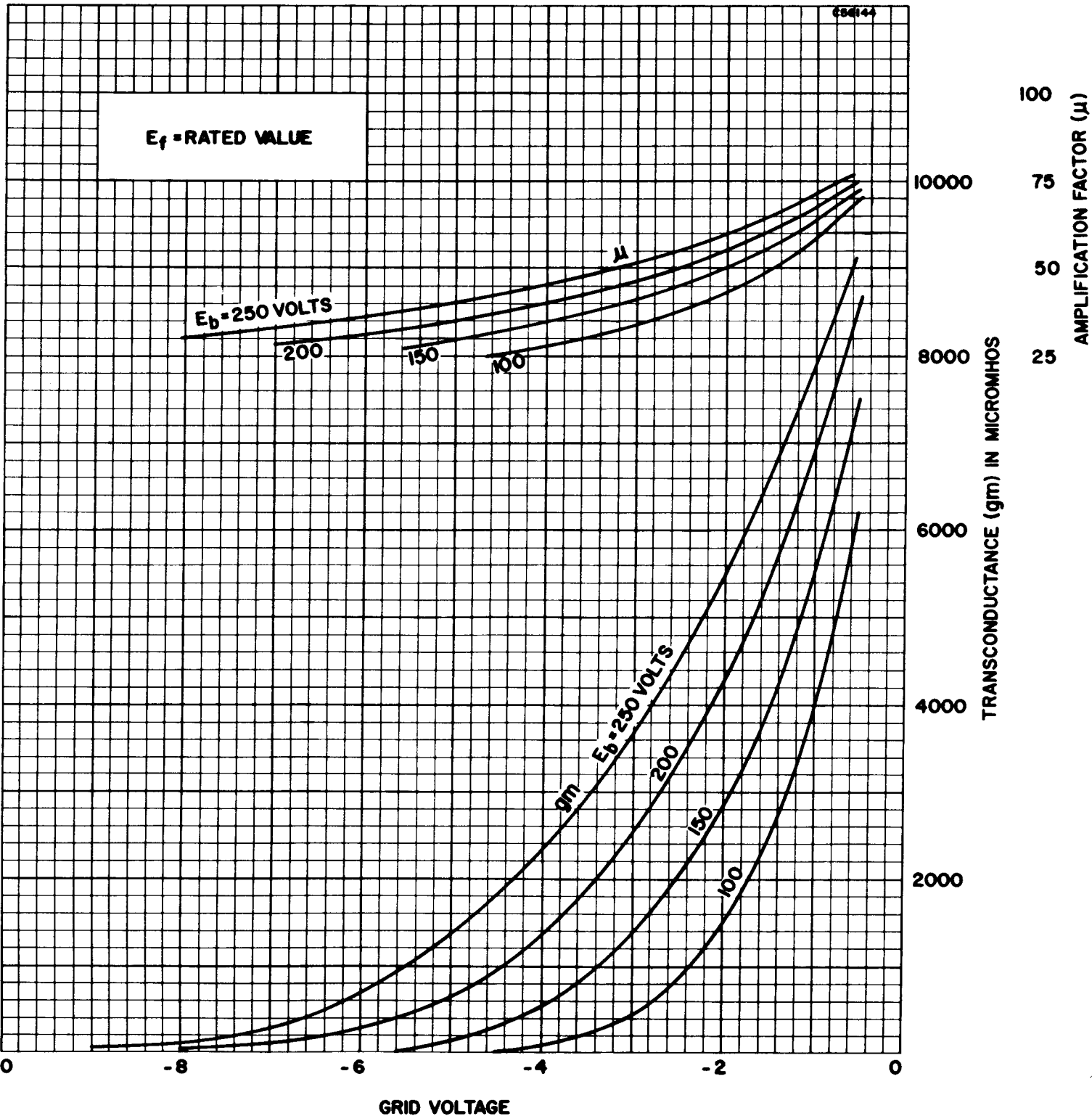
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AVERAGE PLATE CHARACTERISTICS

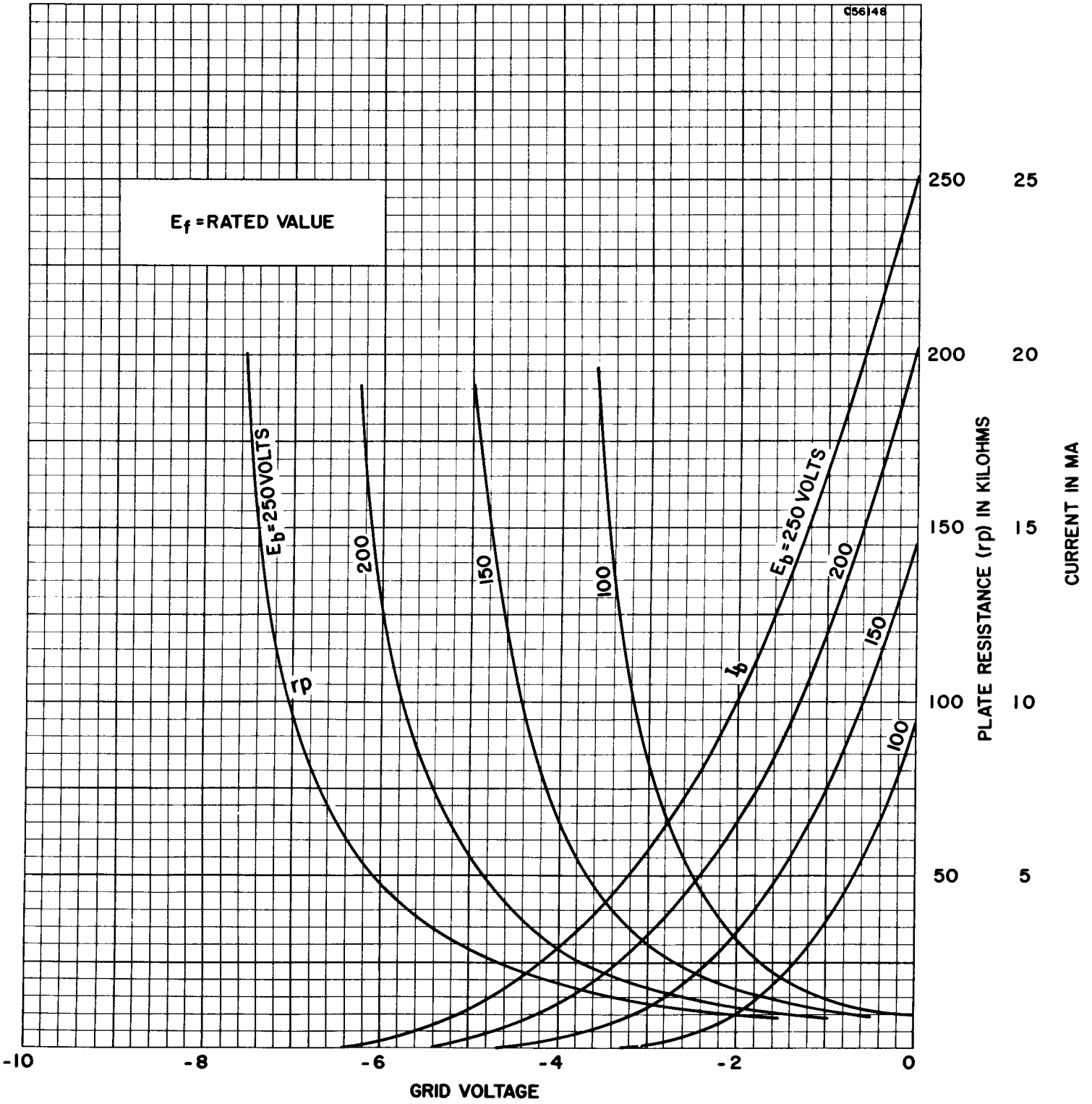


CS614d

AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS

