

MECHANICAL DATA

Bulb	T-6 $\frac{1}{2}$
Base	E9-1, Small Button 9-Pin
Outline	6-2
Basing	9CY
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

	5AM8	6AM8	6AM8A	
Heater Voltage	4.7	6.3	6.3	Volts
Heater Current	600	450	450	Ma
Heater Warm-up Time ¹	11		11	Seconds
Heater-Cathode Voltage (Design Center Values)				
Heater Negative with Respect to Cathode				
Total D C and Peak	200	200	200	Volts Max.
Heater Positive with Respect to Cathode				
D C	100	100	100	Volts Max.
Total D C and Peak	200	200	200	Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

Pentode	Shielded ²		Unshielded	Max.
Grid to Plate: (g1 to p)	0.015		0.015 $\mu\mu\text{f}$	
Input: g1 to (h+k+g2+g3)	6.0		6.0 $\mu\mu\text{f}$	
Output: p to (h+k+g2+g3)	3.4		2.60 $\mu\mu\text{f}$	
Diode				
Input: p to (h+k)	2.3		1.7 $\mu\mu\text{f}$	
Cathode to (h+p)	3.0		3.0 $\mu\mu\text{f}$	
Coupling: (diode p to pentode p)	0.035		0.10 $\mu\mu\text{f}$	Max.
Coupling: (diode p to g1)	0.005		0.006 $\mu\mu\text{f}$	Max.
Coupling: (diode k to pentode p)	0.15		0.15 $\mu\mu\text{f}$	Max.

RATINGS (Design Center Values)

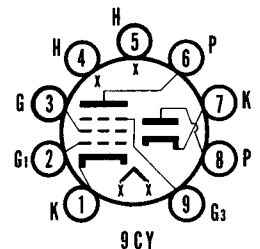
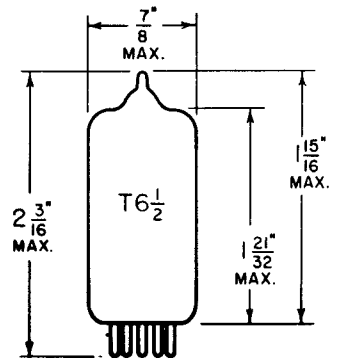
Plate Voltage	300	Volts	Max.
Plate Dissipation	2.8	Watts	Max.
Grid No. 2 Voltage	See Rating Chart		
Grid No. 2 Supply Voltage	300	Volts	Max.
Grid No. 2 Dissipation	0.5	Watt	Max.
Positive Grid No. 1 Voltage	0	Volts	Max.
Grid No. 3 Voltage	0	Volts	Max.
Grid No. 1 Circuit Resistance			
Cathode Bias	1.0	Megohm	Max.
Fixed Bias	0.25	Megohm	Max.
Diode Current for Continuous Operation	5.0	Ma	Max.

CHARACTERISTICS

Conditions:			
Plate Voltage	200	Volts	
Grid No. 2 Voltage	150	Volts	
Grid No. 3 Voltage	0	Volts	
Cathode Resistor	120	Ohms	
Plate Current	11.5	Ma	
Grid No. 2 Current	2.7	Ma	
Transconductance	7000	μmhos	
Plate Resistance (approx.)	0.6	Megohm	
Grid No. 1 Voltage for $I_b = 10\mu\text{a}$	-8	Volts	
Diode Plate Voltage for			
Diode Current of 50 Ma ³	10	Volts	

QUICK REFERENCE DATA

The Sylvania Type 6AM8 is a miniature diode-pentode designed for use as a combined video detector and last IF stage. The 5AM8 and 6AM8A have controlled heater warm-up time for service in series heater string television receivers. Except for heater characteristics the 5AM8 and 6AM8A are identical to the 6AM8.



**SYLVANIA ELECTRIC
PRODUCTS INC.**

**RADIO TUBE DIVISION
EMPORIUM, PA.**

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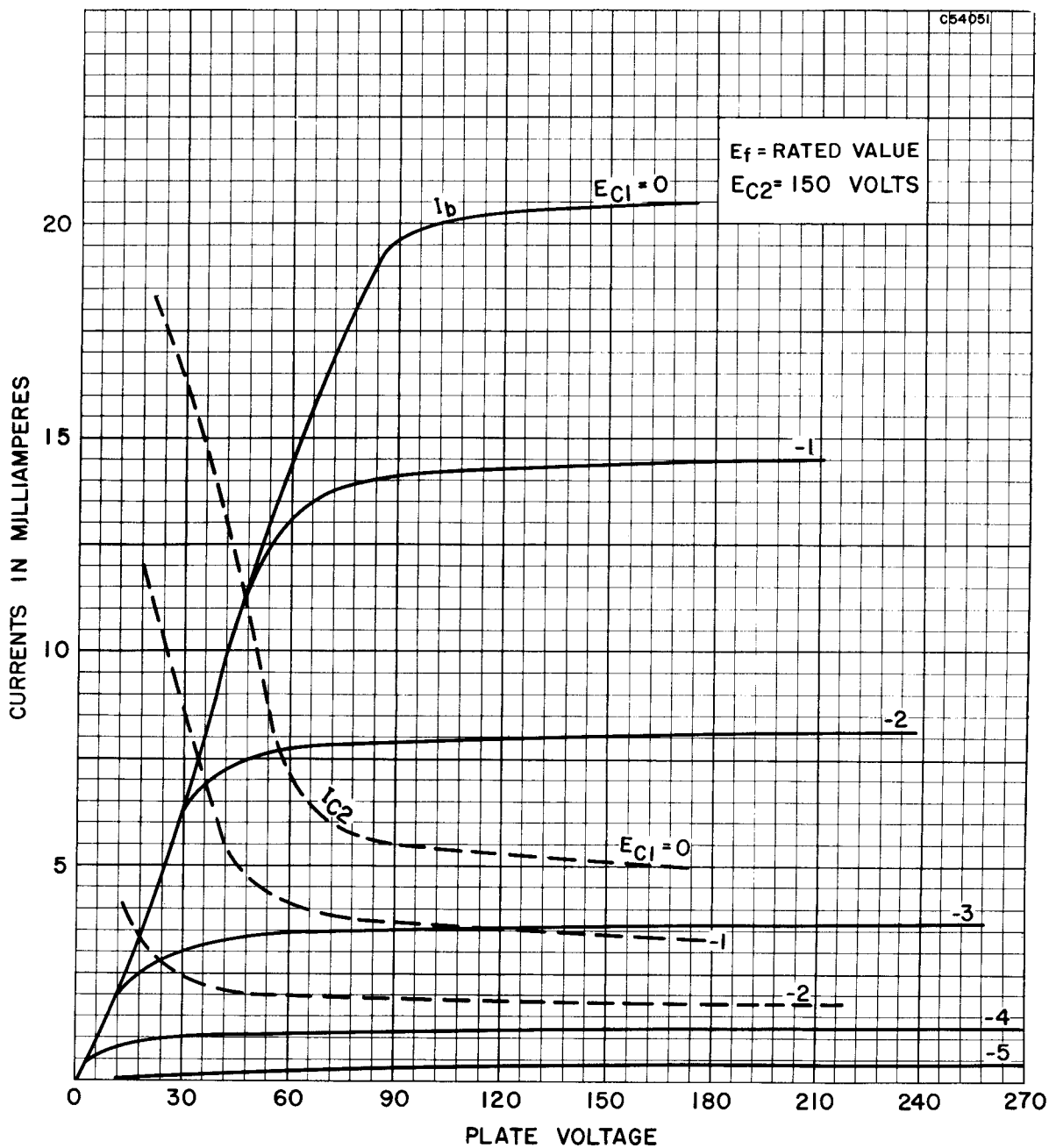
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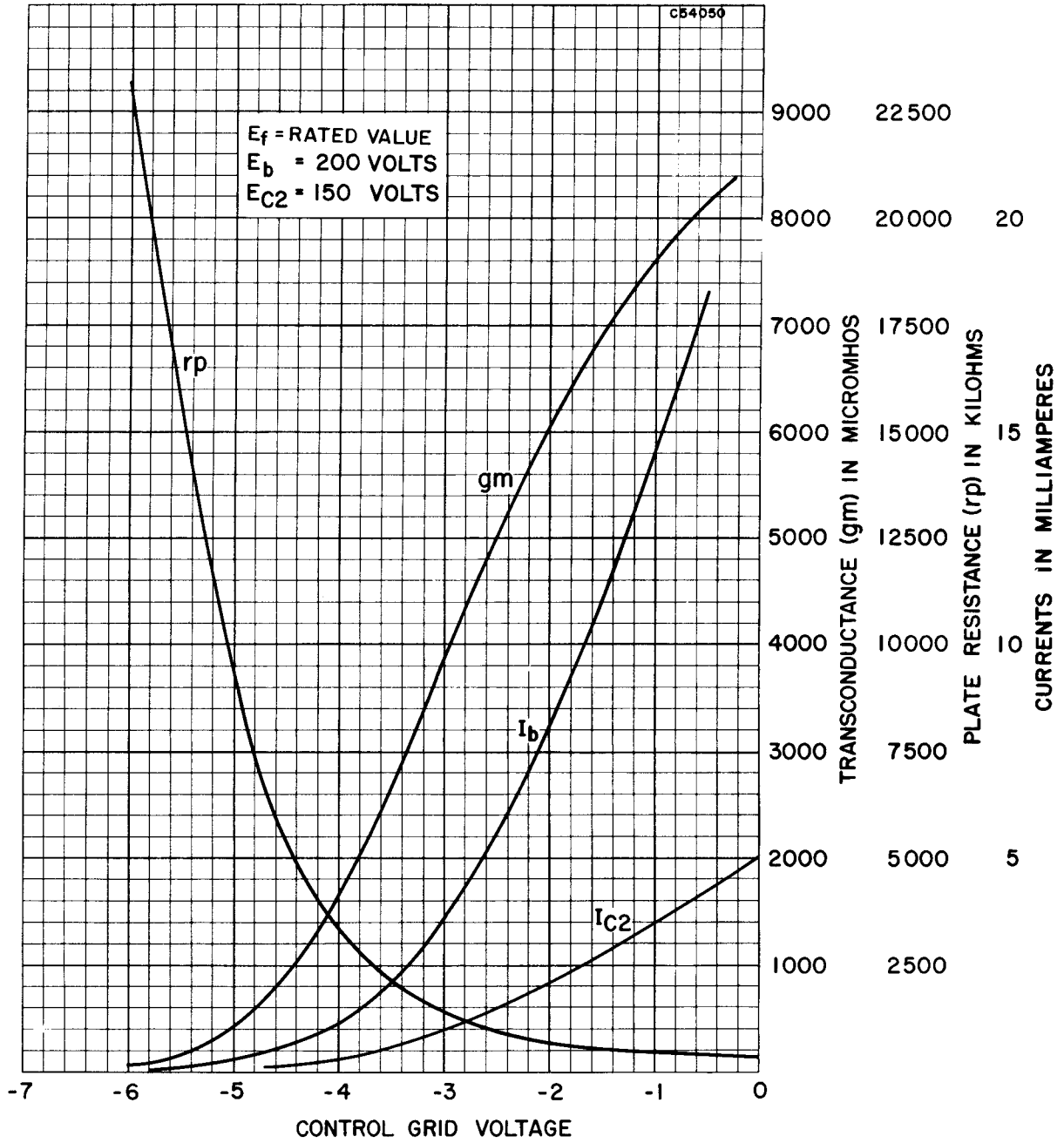
NOTES:

1. *Heater Warm-up Time is defined as the time required for the voltage across the heater to reach 80% of its rated value after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times rated heater voltage divided by rated heater current.*
2. *Shield No. 315.*
3. *Test condition only. Operating conditions must not exceed the design center rating.*

AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



RATING CHART

