MECHANICAL DATA

Bulb	T-6½
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

	Shielded[2]	Unshielded	
Pentode			
Grid to Plate: (g1 to p)	0.015	0.015 μμf	Max.
Input: g1 to (h+k+g2+g3)	6.0	6.0 μμf	
Output: p to (h+k+g2+g3)	3.4	2.60 μμf	
Diode			
Input: p to (h+k)	2.3	1.7 μμf	
Cathode to (h+p)	3.0	3.0 μμf	
Coupling: (diode p to pentode p)	0.035	0.10 μμf	Max.
Coupling: (diode p to g1)	0.005	0.006 μμf	Max.
Coupling: (diode k to pentode p)	0.15	0.15 μμf	Max.

RATINGS (Design Center Values)

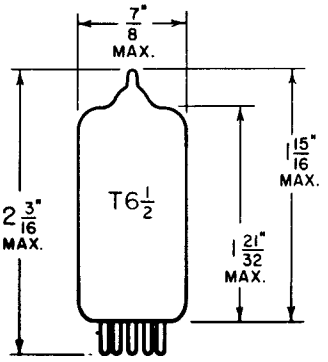
Plate Voltage	300 Volts	Max.
Plate Dissipation	2.8 Watts	Max.
Grid No. 2 Voltage	See Rating Chart	
Grid No. 2 Supply Voltage	300 Volts	Max.
Grid No. 2 Dissipation	0.5 Watt	Max.
Positive Grid No. 1 Voltage	0 Volts	Max.
Grid No. 3 Voltage	0 Volts	Max.
Grid No. 1 Circuit Resistance		
Cathode Bias	1.0 Megohm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

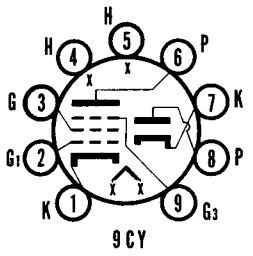
CHARACTERISTICS

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 $I_b = 10\mu a$	−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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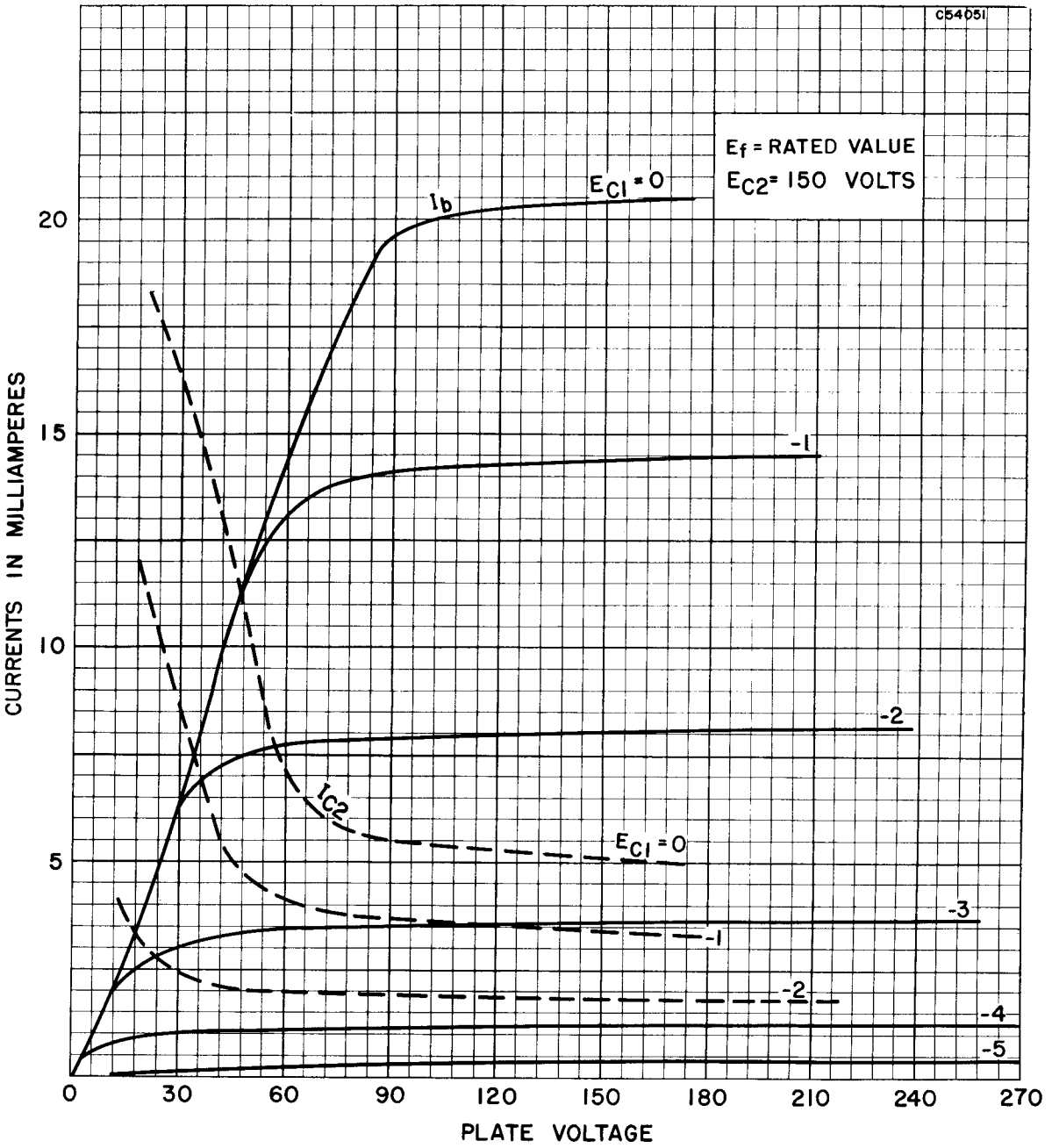
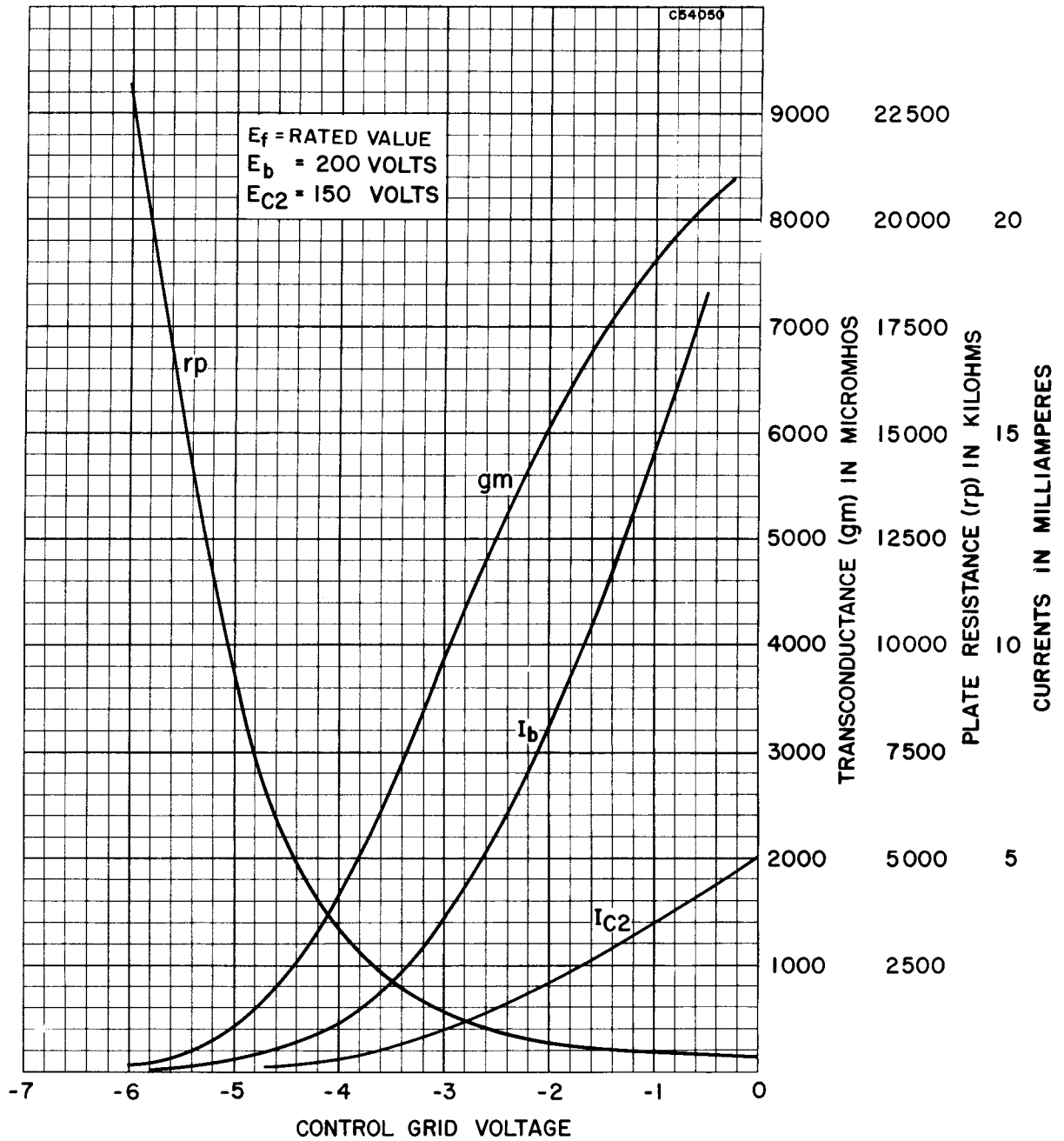
NOTES:

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