



engineering data service

SYLVANIA
6AM8
6AM8A
5AM8

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	
Grid to Plate: (g1 to p)	0.015	0.015 μ f	Max.
Input: g1 to (h+k+g2+g3)	6.0	6.0 μ f	
Output: p to (h+k+g2+g3)	3.4	2.60 μ f	

Diode

Input: p to (h+k)	2.3	1.7 μ f	
Cathode to (h+p)	3.0	3.0 μ f	
Coupling: (diode p to pentode p)	0.035	0.10 μ f	Max.
Coupling: (diode p to g1)	0.005	0.006 μ f	Max.
Coupling: (diode k to pentode p)	0.15	0.15 μ f	Max.

RATINGS (Design Center Values)

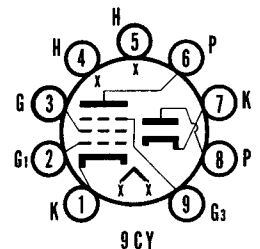
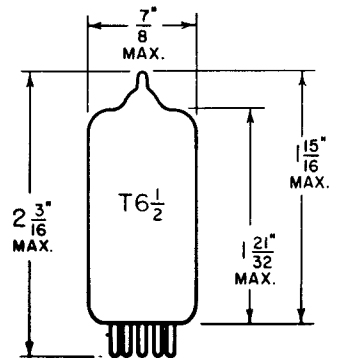
Plate Voltage	300 Volts	Max.
Plate Dissipation	2.8 Watts	Max.
Grid No. 2 Voltage	See Rating Chart	
Grid No. 2 Supply Voltage	300 Volts	Max.
Grid No. 2 Dissipation	0.5 Watt	Max.
Positive Grid No. 1 Voltage	0 Volts	Max.
Grid No. 3 Voltage	0 Volts	Max.
Grid No. 1 Circuit Resistance		
Cathode Bias	1.0 Megohm	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 μ mhos
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.



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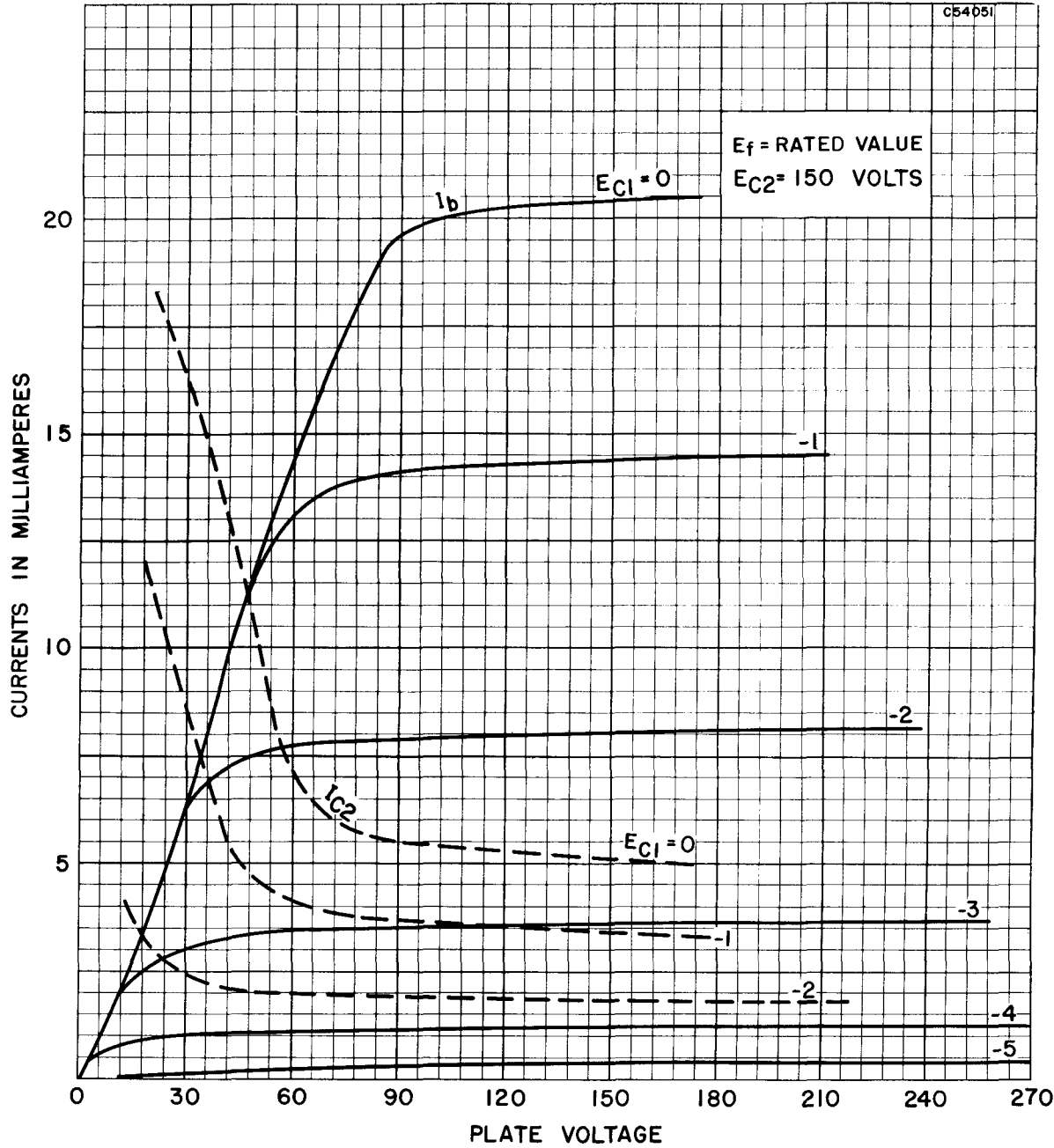
AUGUST, 1957

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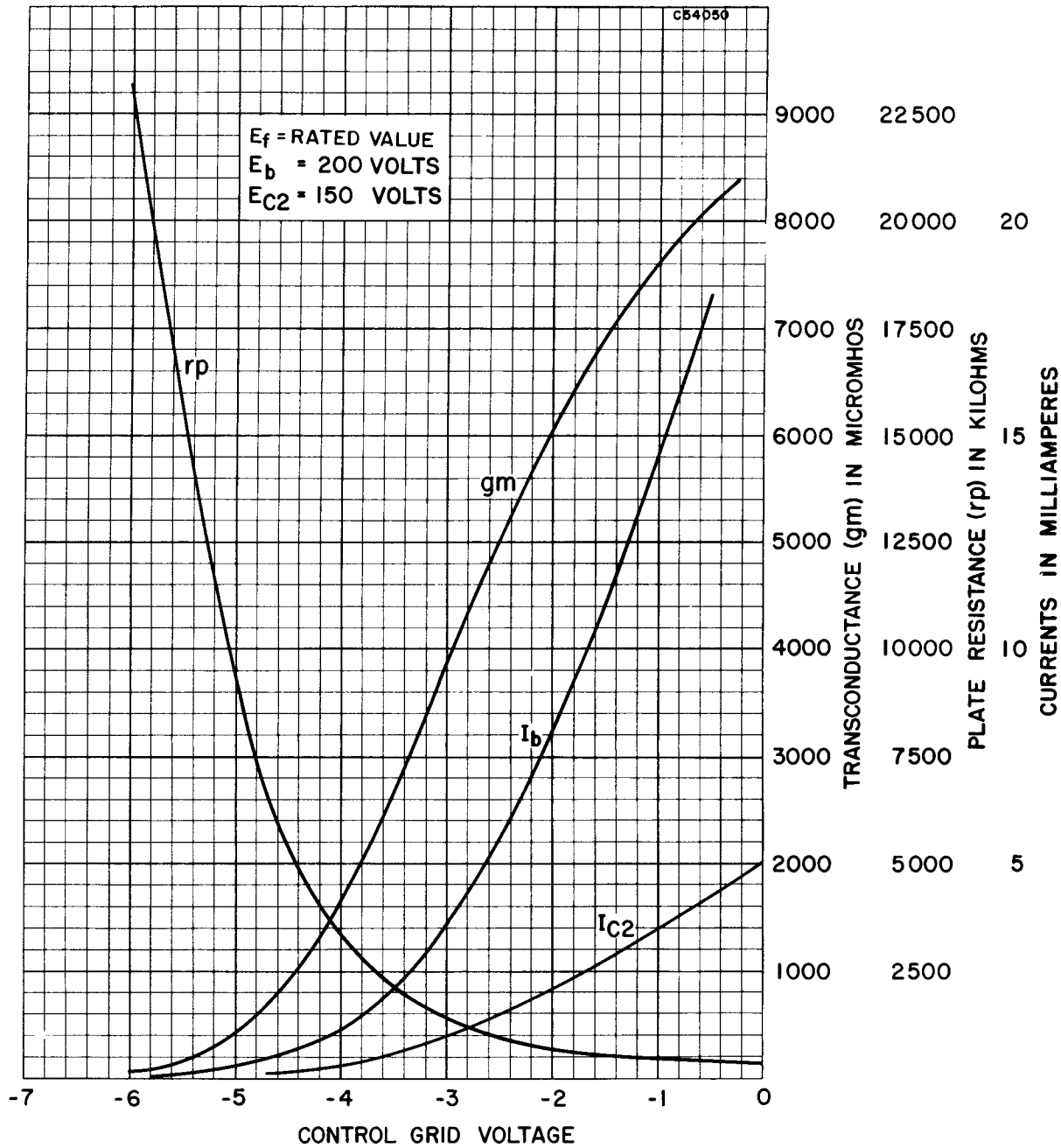
NOTES:

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

