

MECHANICAL DATA

	6AV5GT	6AV5GA 12AV5GA
Bulb	T-9	T-11 or T-12
Base	B6-8 Intermediate Shell Octal, 6-Pin or B6-60 Short Intermediate Shell Octal 6-Pin	B6-112 Short Medium Shell Octal, 6-Pin or B6-120 Short Medium Shell Octal, 6-Pin
Outline	9-11 or 9-41	See Drawing
Basing	6CK	6CK
Cathode	Coated Uni-potential	Coated Uni-potential
Mounting Position	Any	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

	6AV5GA 6AV5GT	12AV5GA
Heater Voltage	6.3	12.6 Volts
Heater Current	1.2	0.6 Amperes
Heater Warm-up Time ¹		11 Seconds
Heater-Cathode Voltage (Design Center Values)		
Heater Negative with Respect to Cathode Total D C and Peak	200	200 Volts Max.
Heater Positive with Respect to Cathode D C	100	100 Volts Max.
Total D C and Peak	200	200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid to Plate	0.5 μ f
Input	14 μ f
Output	7.0 μ f

RATINGS (Design Center Values—Except as Noted)

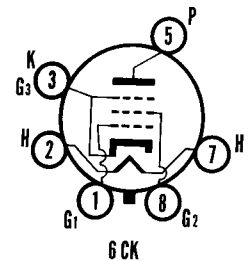
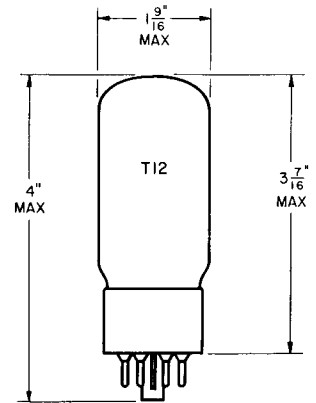
Horizontal Deflection Amplifier²		
D C Plate Supply Voltage (Boost + D C Power Supply)	550 Volts	Max.
Peak Positive Plate Voltage (Abs. Max.)	5500 Volts	
Peak Negative Plate Voltage	1250 Volts	Max.
Plate Dissipation ³	11 Watts	Max.
Peak Negative Grid No. 1 Voltage	300 Volts	Max.
D C Grid No. 2 Voltage	175 Volts	Max.
Grid No. 2 Dissipation	2.5 Watts	Max.
Average Cathode Current	110 Ma	Max.
Peak Cathode Current	400 Ma	Max.
Grid No. 1 Circuit Resistance	0.47 Megohm	Max.
Bulb Temperature (at Hottest Point)	210° C	Max.

QUICK REFERENCE DATA

The Sylvania Types 6AV5GA, 6AV5GT and 12AV5GA are beam power pentodes designed primarily for use as horizontal deflection amplifiers in television receivers.

The 12AV5GA employs a 600 Ma heater and controlled heater warm-up time for service in series string television receivers.

The 6AV5GT is contained in a T-9 bulb while the 6AV5GA and 12AV5GA are T-11 or T-12 envelopes.



**SYLVANIA ELECTRIC
PRODUCTS INC.**

**RADIO TUBE DIVISION
EMPORIUM, PA.**

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PAGE 1 OF 6

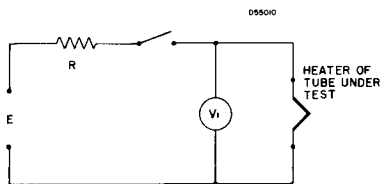
AVERAGE CHARACTERISTICS

Plate Voltage	60	250 Volts
Grid No. 2 Voltage	150	150 Volts
Grid No. 1 Voltage	0	-22.5 Volts
Plate Current	225 ⁴	55 Ma
Grid No. 2 Current	25 ⁴	2.1 Ma
Plate Resistance (approx.)		20000 Ohms
Transconductance		5500 μ mhos
Grid No. 1 Voltage (approx.) for $I_b = 1$ Ma		-46 Volts
Triode Amplification Factor ⁵		4.3

NOTES:

1. *Heater warm-up Time is defined as the time required in the circuit shown below for the voltage across the heater terminals to increase from zero to the heater test voltage (VI). The conditions used in conjunction with the test circuit depend upon the rated heater voltage and current of the tube under test.*

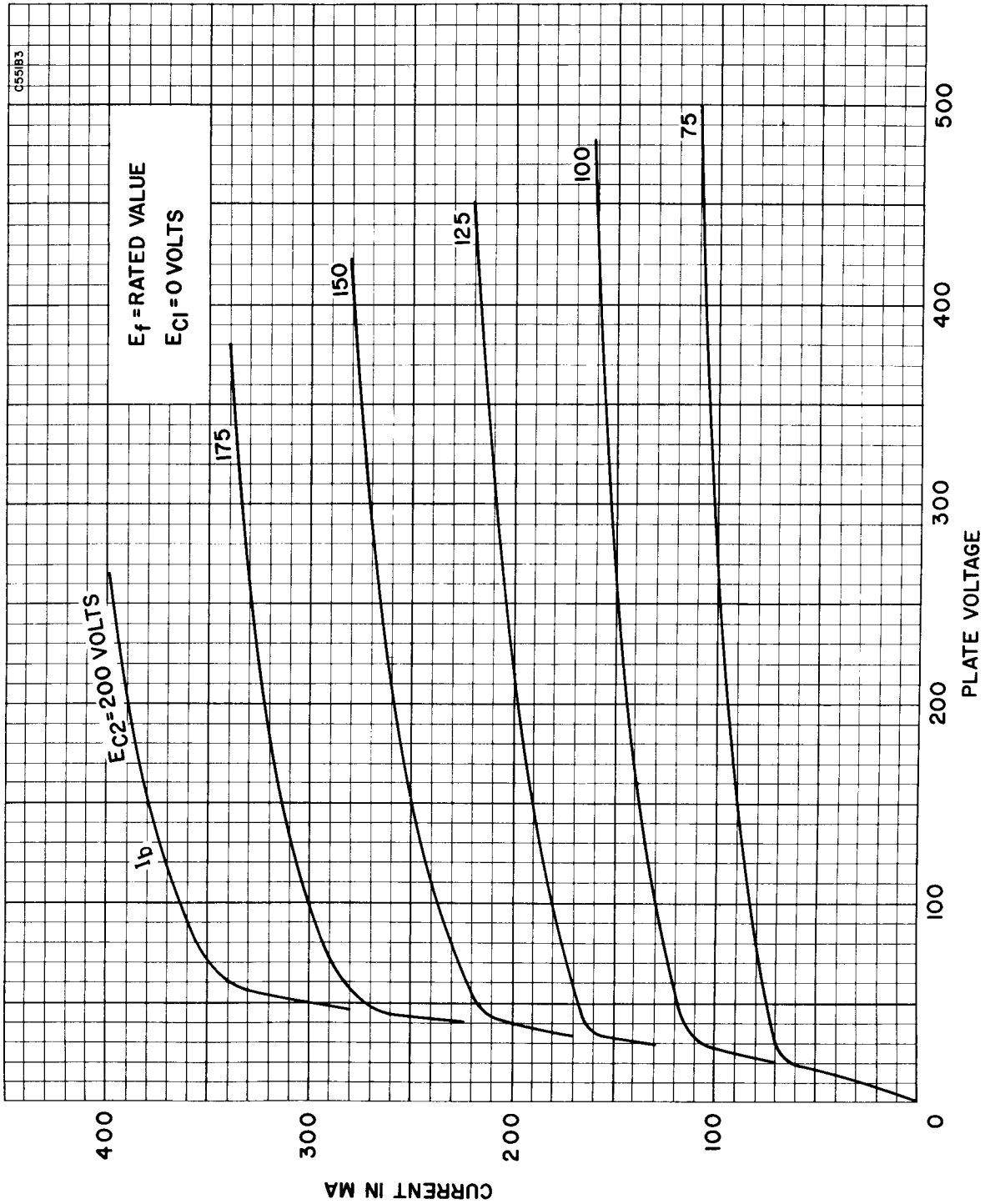
For this Type: E = 50 Volts, R = 63 Ohms, VI = 10.0 Volts.



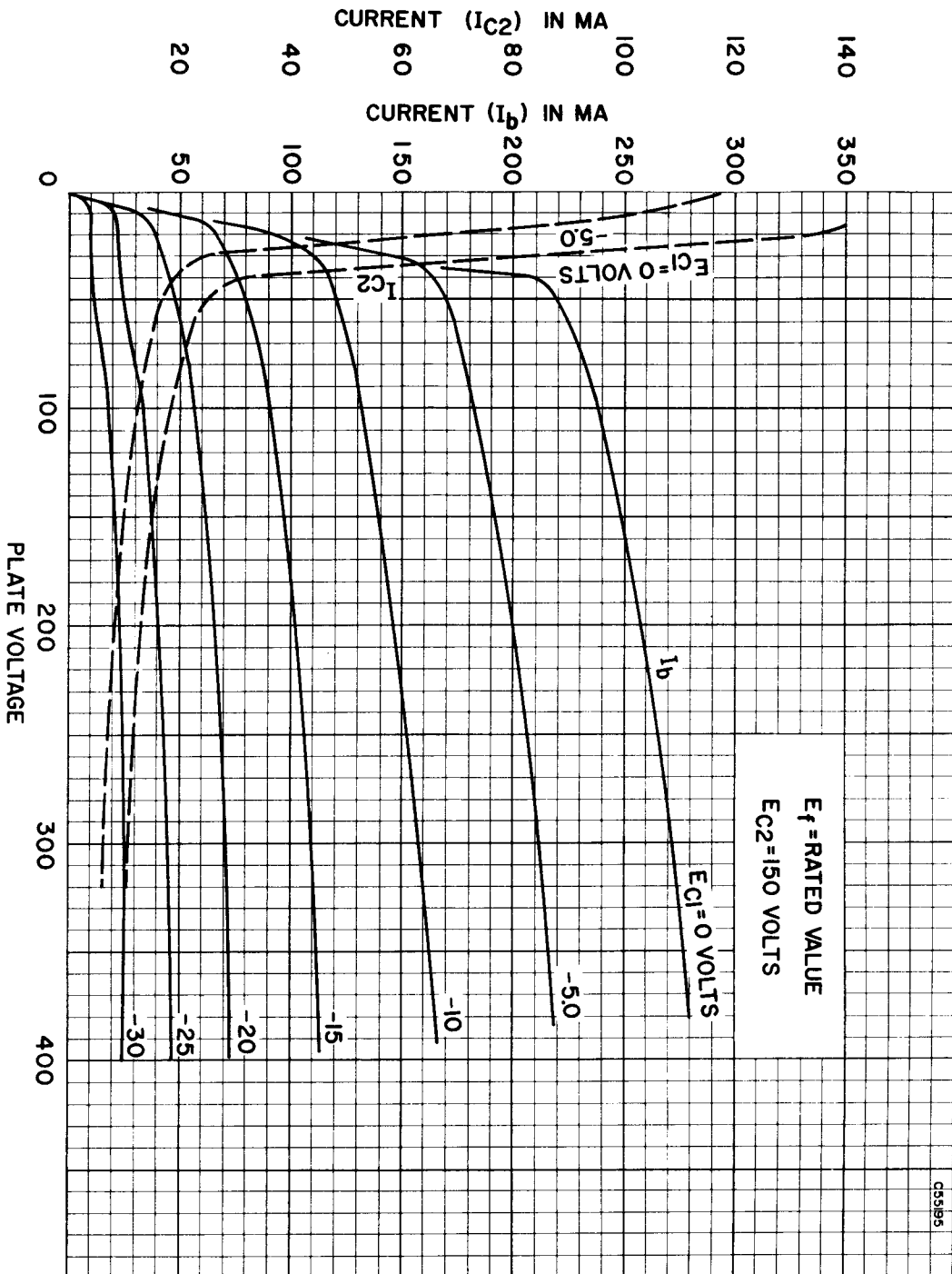
E — Applied Voltage, RMS or DC
 R — Total Series Resistance
 VI — Heater Test Voltage, RMS or DC
 (80% Rated Heater Voltage)

2. *For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission", the duty cycle of the voltage pulse must not exceed 15% of one scanning cycle.*
3. *In stages operating with grid leak bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.*
4. *Instantaneous values.*
5. *Triode connection (screen tied to plate) with $E_b = E_{c2} = 150$ Volts and $E_{c1} = -22.5$ Volts.*

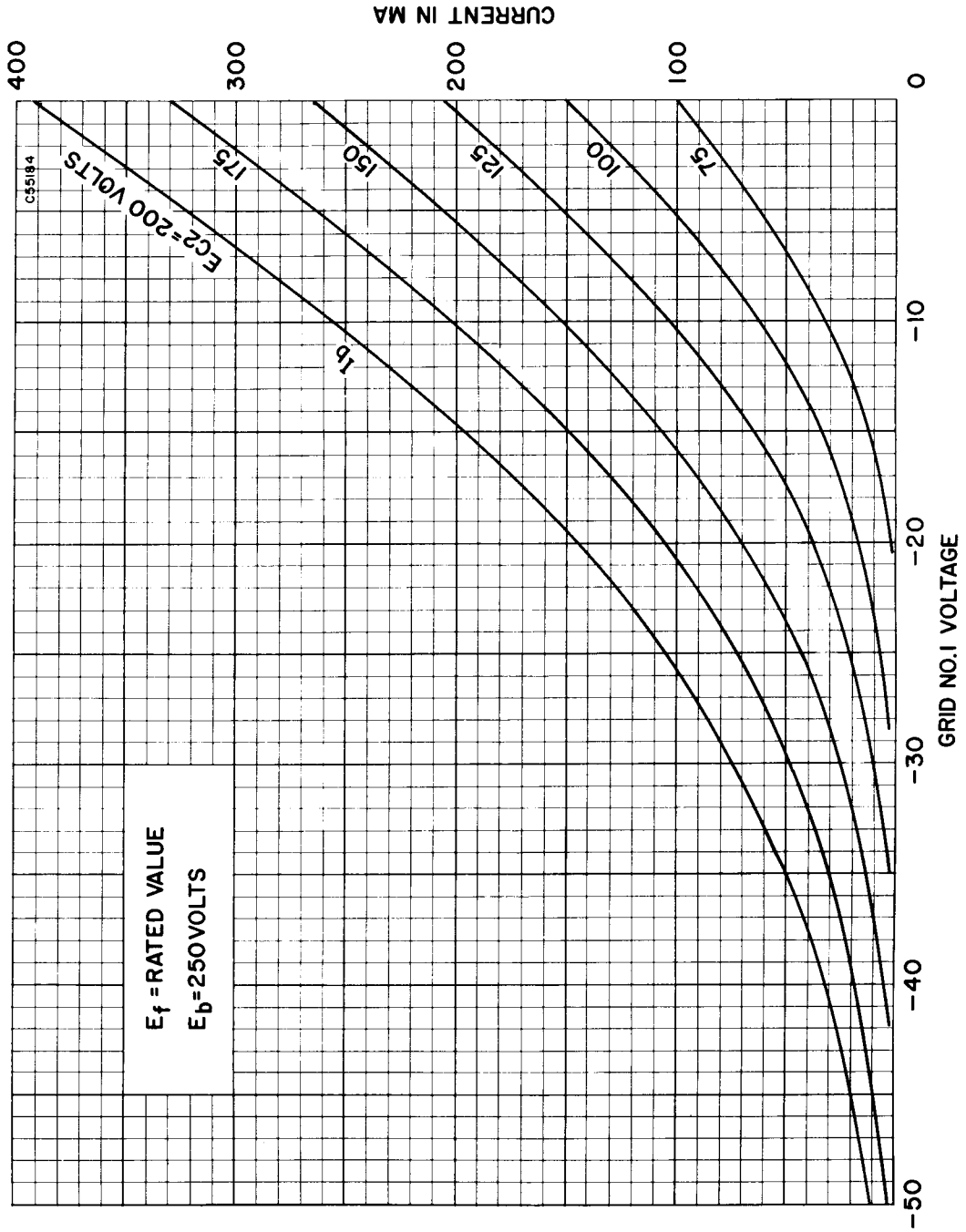
AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

