

**MECHANICAL DATA**

Bulb . . . . .	T-9
Base . . . . .	B8-6, Intermediate Shell Octal 8-Pin or B8-58, Short Intermediate Shell Octal 8-Pin
Outline . . . . .	9-11 or 9-41
Basing . . . . .	8BD
Cathode . . . . .	Coated Unipotential
Mounting Position . . . . .	Any

**ELECTRICAL DATA<sup>1</sup>**

**HEATER CHARACTERISTICS**

	<b>6SN7GT</b>	<b>12SN7GT</b>
Heater Voltage . . . . .	6.3	12.6 Volts
Heater Current . . . . .	600	300 Ma
Heater-Cathode Voltage (Design Center Values)		
Heater Negative with Respect to Cathode Total DC and Peak . . . . .	200	200 Volts Max.
Heater Positive with Respect to Cathode DC . . . . .	100	100 Volts Max.
Total DC and Peak . . . . .	200	200 Volts Max.

**DIRECT INTERELECTRODE CAPACITANCES  
(Unshielded — approx.)**

	<b>Section 1<sup>2</sup></b>	<b>Section 2</b>
Grid to Plate . . . . .	3.8	4.0 $\mu\mu\text{f}$
Input . . . . .	2.8	3.0 $\mu\mu\text{f}$
Output . . . . .	0.8	1.2 $\mu\mu\text{f}$

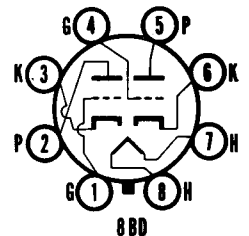
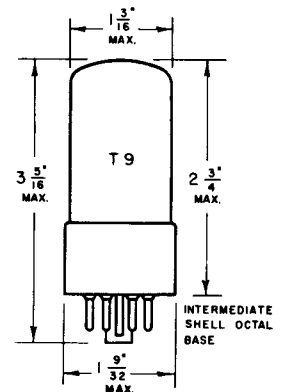
**RATINGS — Each Section (Design Center Values — Except as Noted)**

	<b>Class A<sub>1</sub> Amplifier</b>	<b>Vertical<sup>3</sup> Deflection Amplifier</b>
Plate Voltage . . . . .	300	300 Volts Max.
Peak Positive Plate Voltage (Abs. Max.) . . . . .		1200 Volts Max.
Plate Dissipation		
Each Plate . . . . .	3.5	3.5 Watts Max.
Both Plates . . . . .	5.0	5.0 Watts Max.
Peak Negative Grid Voltage . . . . .		250 Volts Max.
Cathode Current . . . . .	20	20 Ma Max.
Peak Cathode Current . . . . .		70 Ma Max.
Grid Circuit Resistance . . . . .	1.0	Megohm Max.
Cathode Bias . . . . .		2.2 Megohms Max.

	<b>Vertical<sup>3</sup> Deflection Oscillator</b>	<b>Horizontal<sup>3</sup> Deflection Oscillator</b>
Plate Voltage . . . . .	300	300 Volts Max.
Plate Dissipation		
Each Plate . . . . .	3.5	3.5 Watts Max.
Both Plates . . . . .	5.0	5.0 Watts Max.
Peak Negative Grid Voltage . . . . .	400	600 Volts Max.
Average Cathode Current . . . . .	20	20 Ma Max.
Peak Cathode Current . . . . .	70	300 Ma Max.
Grid Circuit Resistance . . . . .	2.2	2.2 Megohms Max.

**QUICK REFERENCE DATA**

The 6SN7GT is a medium mu double triode intended for use as a resistance coupled amplifier, or combined vertical oscillator and vertical deflection amplifier in television receivers. Except for heater characteristics, the 6SN7GT is identical to the 12SN7GT.



**SYLVANIA ELECTRIC  
PRODUCTS INC.**

**RADIO TUBE DIVISION  
EMPORIUM, PA.**

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**CHARACTERISTICS AND TYPICAL OPERATION**

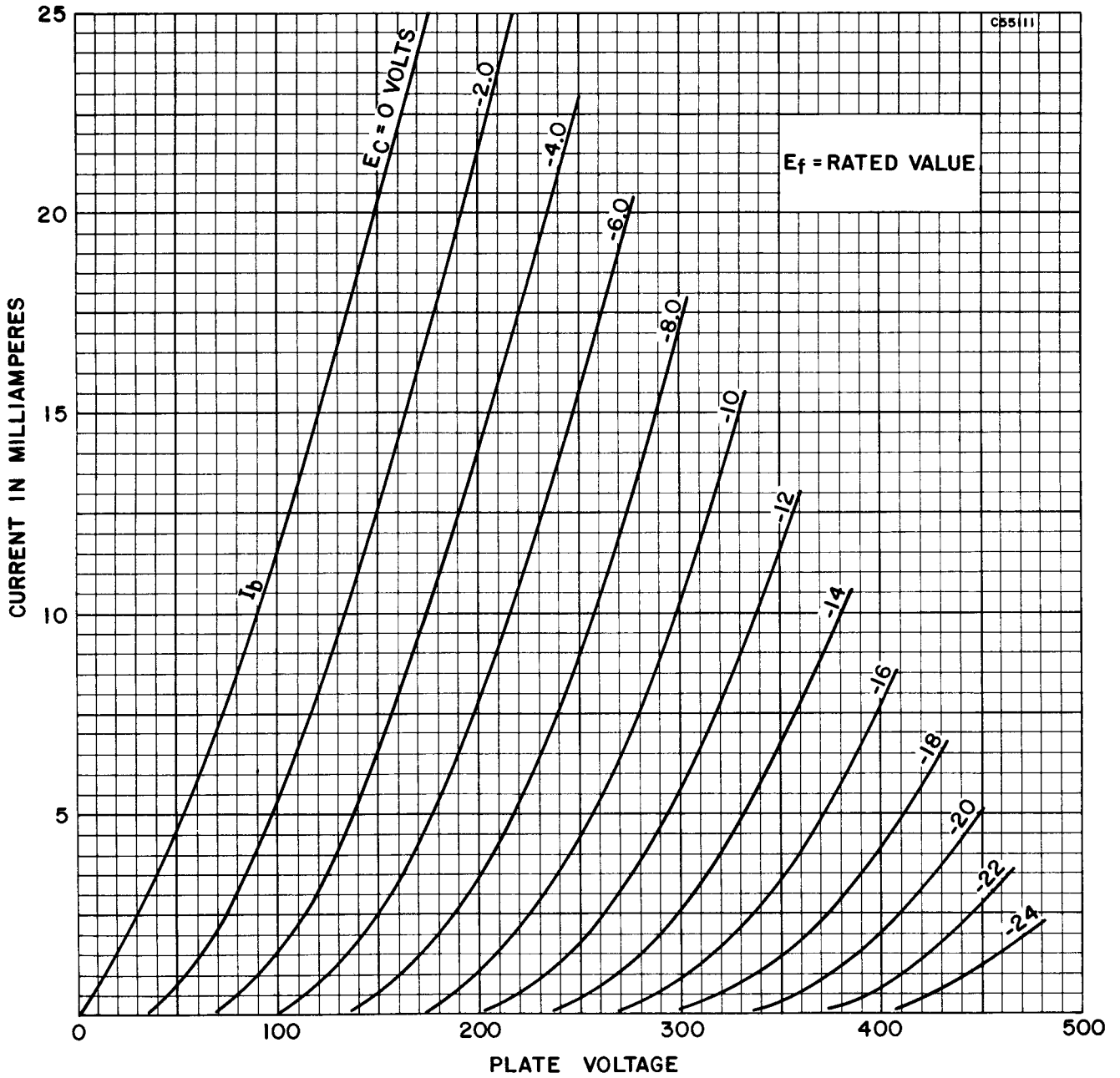
**Class A<sub>1</sub> Amplifier**

Plate Voltage . . . . .	90	250 Volts
Grid Voltage . . . . .	0	-8.0 Volts
Plate Current . . . . .	10	9.0 Ma
Plate Resistance (approx.) . . . . .	6700	7700 Ohms
Transconductance . . . . .	3000	2600 $\mu$ mhos
Amplification Factor . . . . .	20	20
Plate Current at E <sub>c</sub> = -12.5 Volts . . . . .		1.3 Ma
Grid Voltage for I <sub>b</sub> = 10 $\mu$ a (approx.) . . . . .	-7.0	-18 Volts

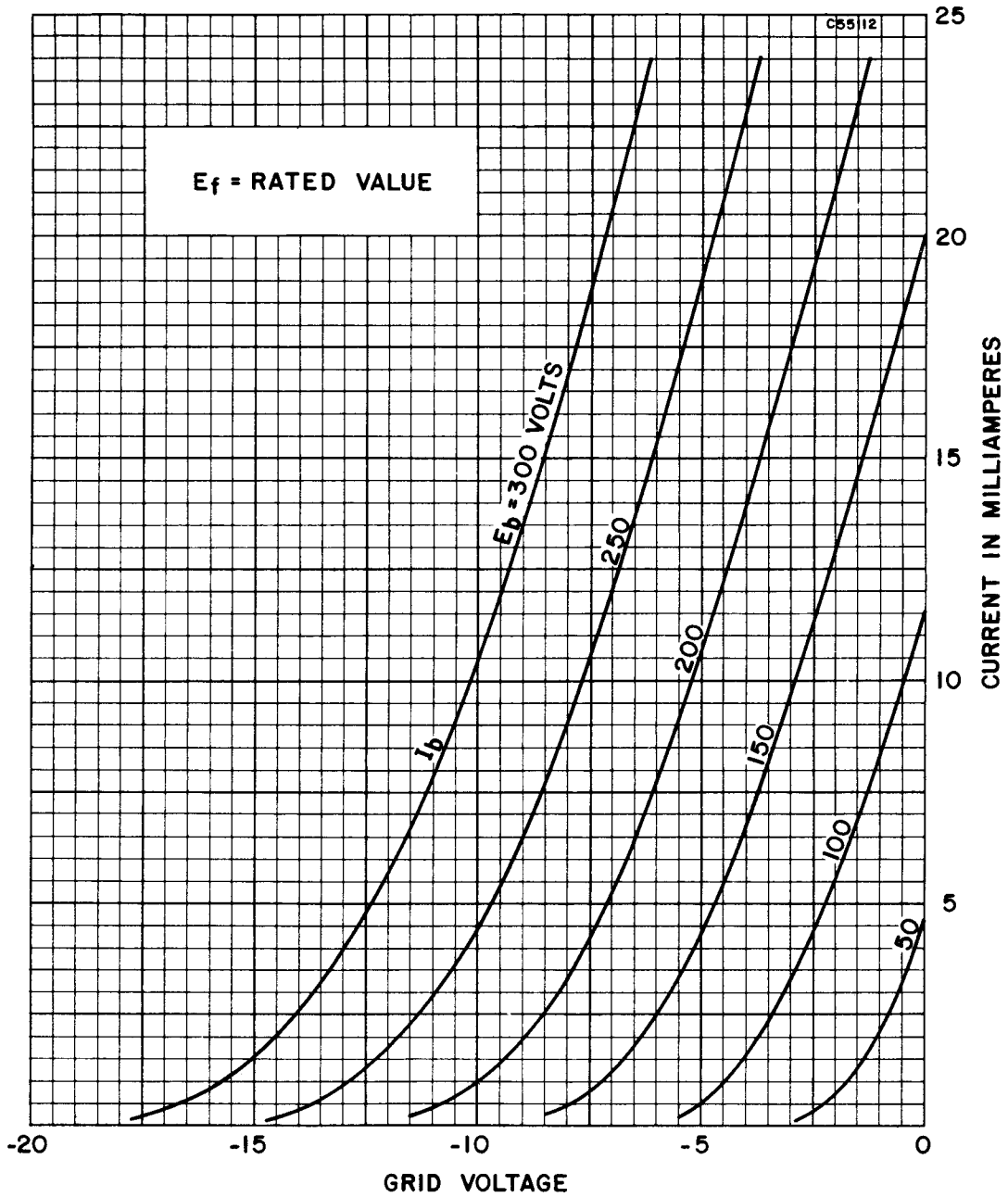
**NOTES:**

1. All ratings, operating conditions and characteristics are for each section except where otherwise stated.
2. Section No. 1 connects to pins 4, 5 and 6. Section No. 2 connects to pins 1, 2 and 3.
3. For operation in a 525 line, 30-frame system as described in "Standards of Good Engineering Practice for Television Broadcasting Stations; Federal Communications Commission". The duty cycle of the voltage pulse must not exceed 15% of one scanning cycle.

AVERAGE PLATE CHARACTERISTICS  
EACH SECTION



AVERAGE TRANSFER CHARACTERISTICS  
EACH SECTION



**AVERAGE TRANSFER CHARACTERISTICS  
 EACH SECTION**

