

### MECHANICAL DATA

Bulb . . . . .	T-12
Base . . . . .	B7-12 Medium Shell Octal, 7-Pin or, B7-119, Short Medium Shell Octal, 7-Pin
Outline . . . . .	(See Drawing)
Basing . . . . .	7S
Cathode . . . . .	Coated Unipotential
Mounting Position . . . . .	Any

### ELECTRICAL DATA

#### HEATER CHARACTERISTICS

Heater Voltage . . . . .	6.3 Volts
Heater Current . . . . .	1.25 Amperes
Heater Cathode Voltage . . . . .	
Heater Negative with Respect to Cathode . . . . .	180 Volts Max.
Heater Positive with Respect to Cathode . . . . .	180 Volts Max.

#### DIRECT INTERELECTRODE CAPACITANCES (Approx.)

Grid No. 1 to Plate . . . . .	0.66 $\mu\text{f}$
Input . . . . .	12.0 $\mu\text{f}$
Output . . . . .	7.5 $\mu\text{f}$

#### RATINGS (Design Center Values)

Plate Voltage . . . . .	200 Volts Max.
Plate Dissipation . . . . .	12.5 Watts Max.
Grid No. 2 Supply Voltage . . . . .	200 Volts Max.
Grid No. 2 Voltage . . . . .	See Rating Chart
Grid No. 2 Dissipation . . . . .	1.75 Watts Max.
Grid No. 1 Circuit Resistance . . . . .	
Fixed Bias . . . . .	0.1 Megohm Max.
Cathode Bias . . . . .	0.5 Megohm Max.

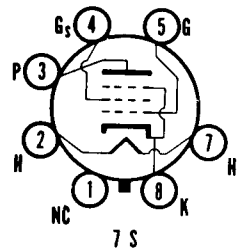
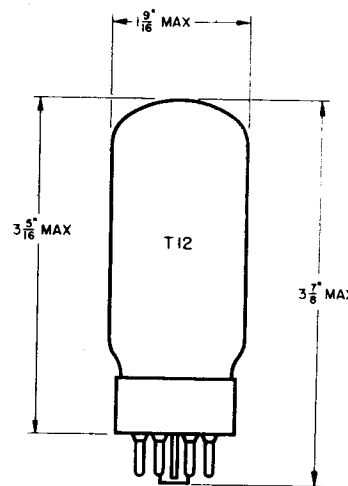
#### CHARACTERISTICS AND TYPICAL OPERATION (Single Tube)

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

Plate Voltage . . . . .	135	200 Volts
Grid No. 2 Voltage . . . . .	135	135 Volts
Grid No. 1 Voltage . . . . .	-13.5	-14 Volts
Peak A F Grid No. 1 Voltage . . . . .	13.5	14 Volts
Zero Signal Plate Current . . . . .	58	61 Ma
Maximum Signal Plate Current . . . . .	60	66 Ma
Zero Signal Grid No. 2 Current . . . . .	3.5	2.2 Ma
Maximum Signal Grid No. 2 Current . . . . .	11.5	9 Ma
Plate Resistance (approx.) . . . . .	9,300	18,300 Ohms
Transconductance . . . . .	7,000	7,100 $\mu\text{mhos}$
Load Resistance . . . . .	2,000	2,600 Ohms
Maximum Signal Power Output . . . . .	3.6	6 Watts
Total Harmonic Distortion (approx.) . . . . .	10	10 Percent

### QUICK REFERENCE DATA

The Sylvania Type 6Y6GA is a beam power amplifier contained in a T-12 envelope. It is intended for operation in medium power audio applications. Except for envelope size the Type 6Y6GA is identical to the Type 6Y6G.



SYLVANIA ELECTRIC  
PRODUCTS INC.

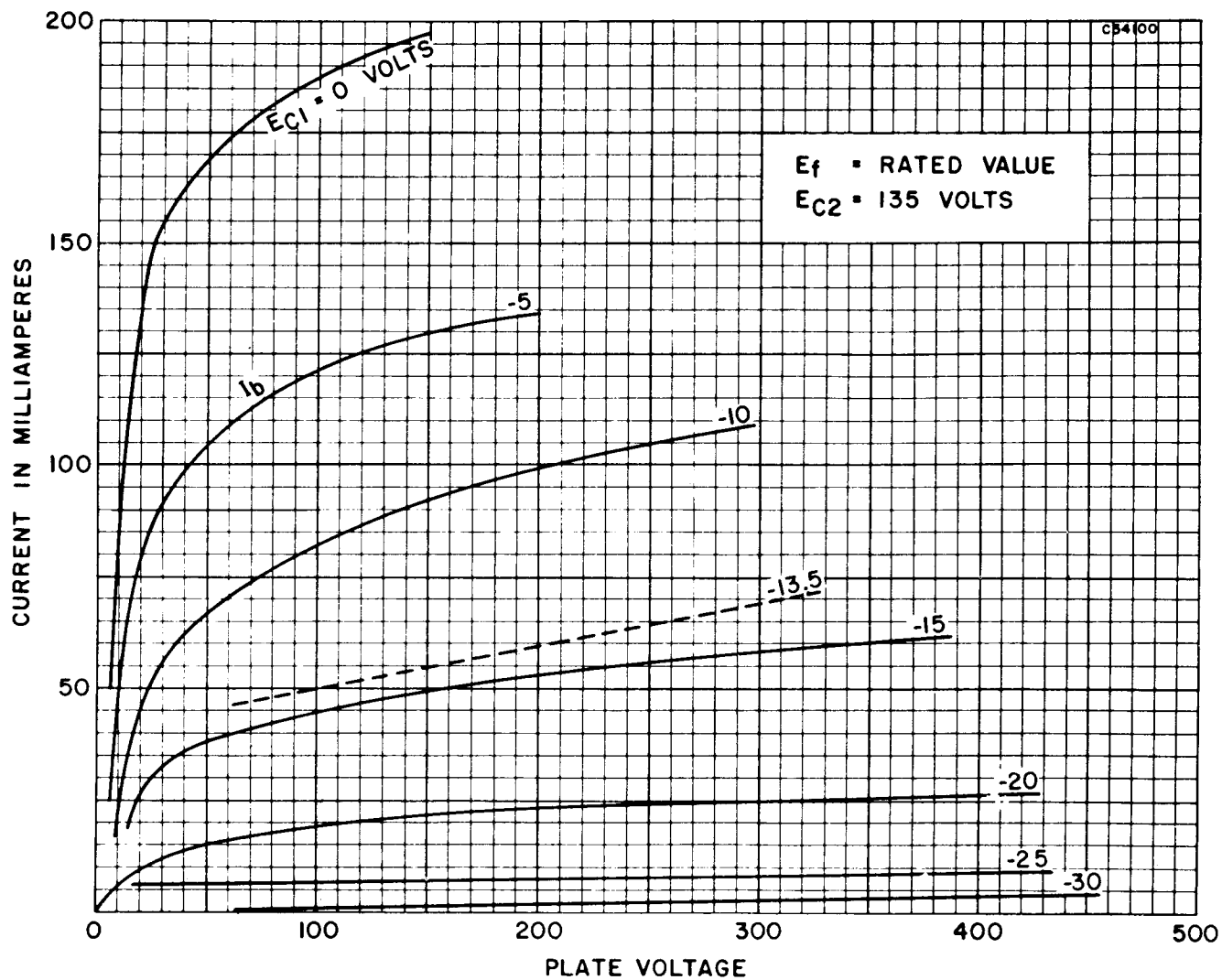
RADIO TUBE DIVISION  
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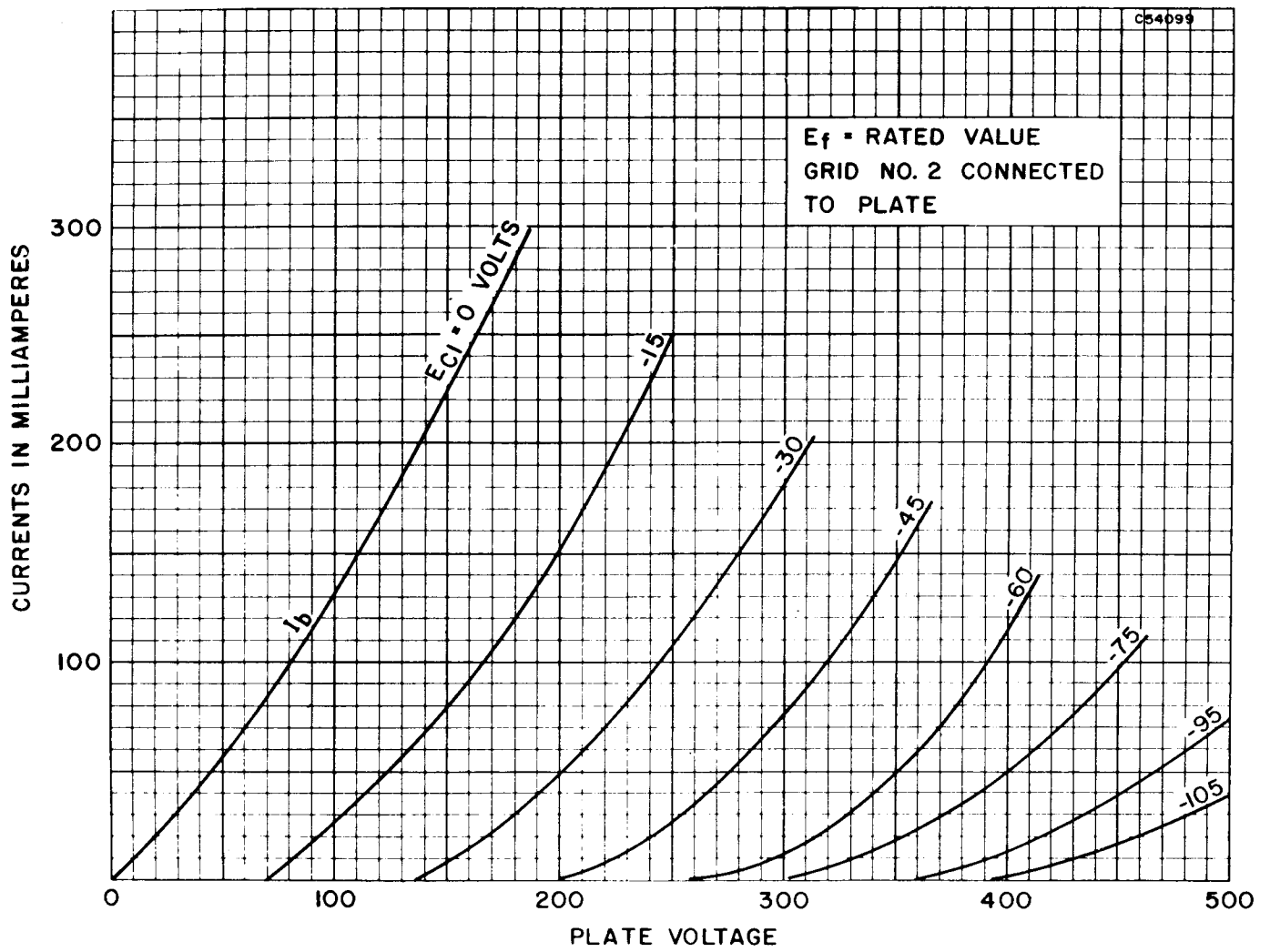
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## AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS  
TRIODE CONNECTED



## GRID NO. 2 RATING CHART

