

**MECHANICAL DATA**

Bulb . . . . .	T-5½
Base . . . . .	E7-1, Miniature Button 7-Pin
Basing . . . . .	7BF
Cathode . . . . .	Coated Unipotential
Mounting Position . . . . .	Any

**ELECTRICAL DATA**

**HEATER CHARACTERISTICS**

Heater Voltage . . . . .	6.3 Volts
Heater Current . . . . .	300 Ma
Heater-Cathode Voltage	
Heater Positive with Respect to Cathode	
DC Component . . . . .	90 Volts Max.
Total DC and Peak . . . . .	180 Volts Max.
Heater Negative with Respect to Cathode	
Total DC and Peak . . . . .	180 Volts Max.

**DIRECT INTERELECTRODE CAPACITANCES (Unshielded)**

Grid to Plate (Each Section) . . . . .	2.7 $\mu\text{mf}$
Input (Each Section) . . . . .	2.4 $\mu\text{mf}$
Output (Section 1) <sup>1</sup> . . . . .	0.5 $\mu\text{mf}$
Output (Section 2) <sup>1</sup> . . . . .	0.4 $\mu\text{mf}$
Plate to Plate . . . . .	0.8 $\mu\text{mf}$

**RATINGS (Design Center Values — Each Section)**

Plate Voltage . . . . .	175 Volts Max.
Plate Dissipation . . . . .	0.5 Watts Max.
Cathode Current . . . . .	9.0 Ma Max.
Positive DC Grid Voltage . . . . .	0 Volts Max.
Grid Circuit Resistance	
Fixed Bias . . . . .	.05 Megohm Max.
Cathode Bias . . . . .	0.1 Megohm Max.

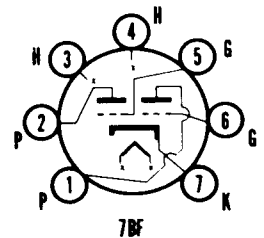
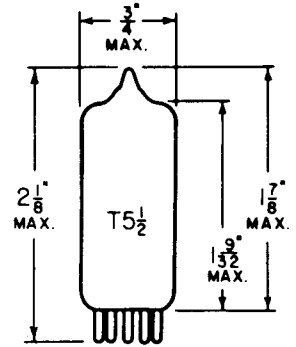
**CHARACTERISTICS AND TYPICAL OPERATION (Each Section)**

<b>Average Characteristics</b>	
Plate Voltage . . . . .	100 Volts
Cathode Bias Resistor . . . . .	470 Ohms
Plate Current . . . . .	4.8 Ma
Amplification Factor . . . . .	27
Transconductance . . . . .	3400 $\mu\text{mhos}$
Plate Resistance (approx.) . . . . .	7950 Ohms

	<b>On Condition</b>	<b>Off Condition</b>
Computer Service		
Plate Supply Voltage . . . . .	150	150 Volts
Grid Voltage . . . . .	0	-10 Volts
Plate Current (Minimum) . . . . .		0.10 Ma
Plate Current (Maximum) . . . . .	4.8	Ma
Grid Resistor . . . . .	47,000	47,000 Ohms
Plate Load Resistor . . . . .	20,000	20,000 Ohms

**QUICK REFERENCE DATA**

Miniature, medium mu twin triode designed for use in moderately high-speed electronic computers. (See Application.)



**SYLVANIA ELECTRIC PRODUCTS INC.**

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SYLVANIA

**5844**

**NOTE:**

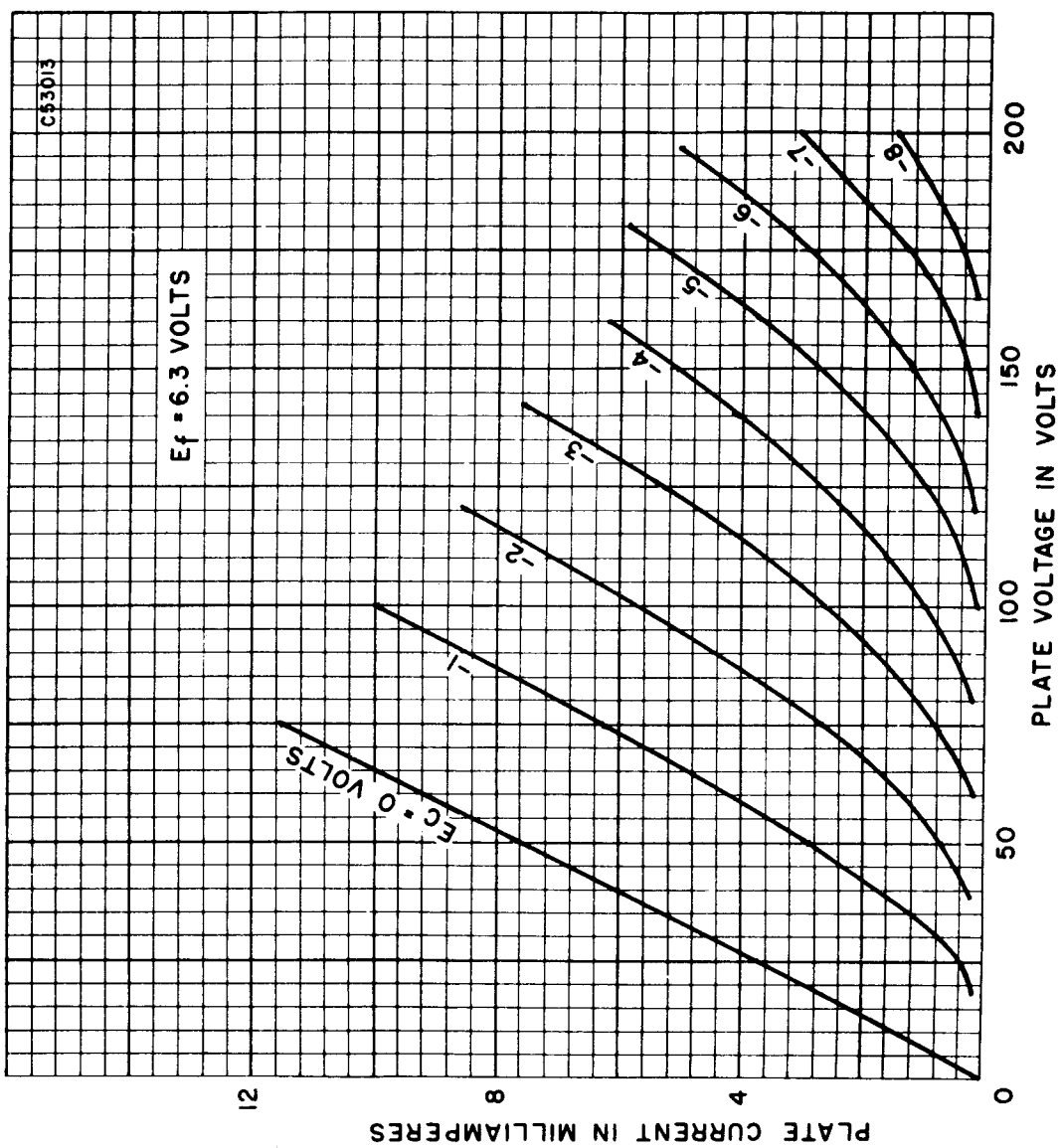
*1. Section 1 connects to pins 2 and 5. Section 2 connects to pins 1 and 6.*

**APPLICATION**

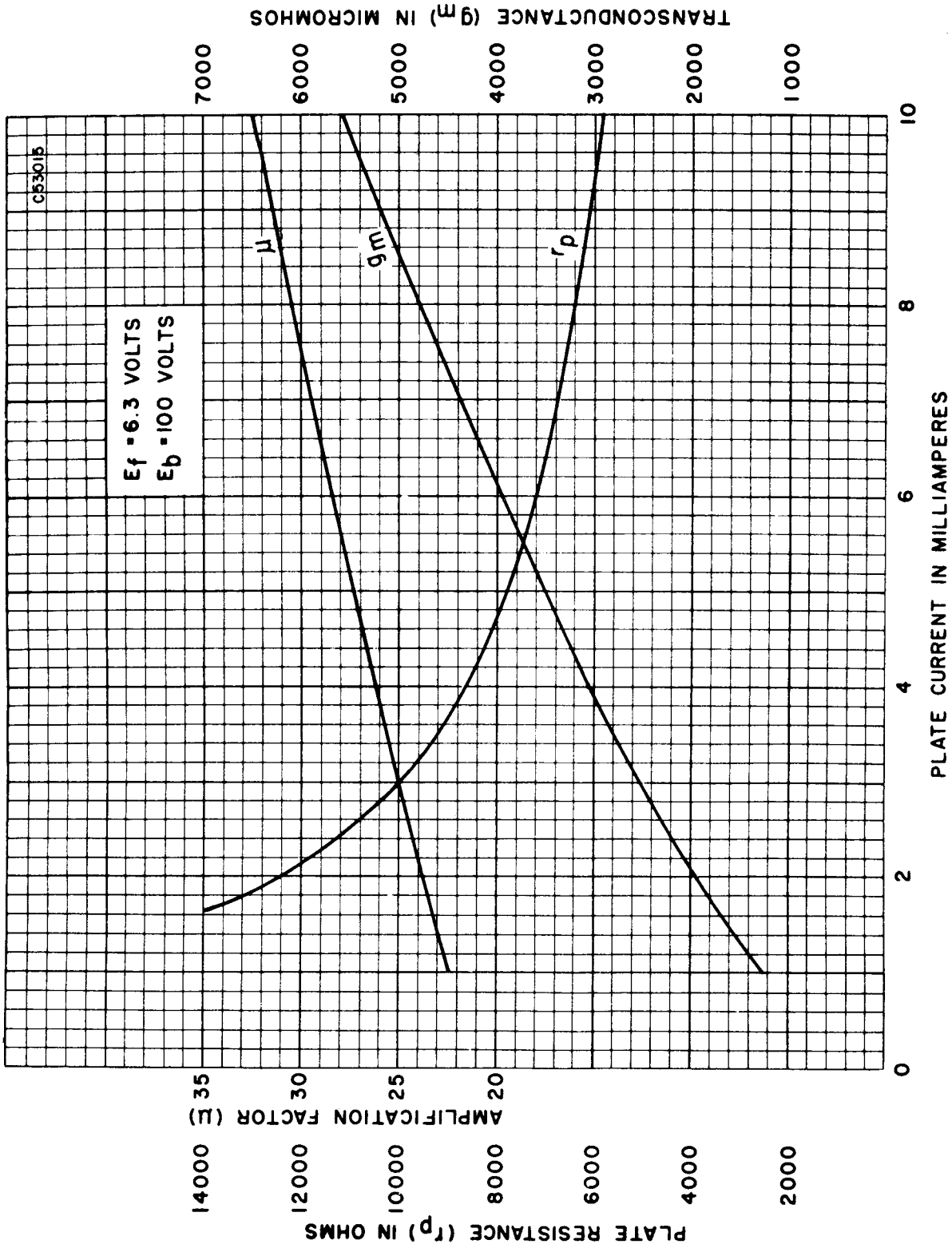
Sylvania type 5844 features relatively high zero-bias plate current and sharp cutoff, heater cathode construction designed for dependable service under conditions of intermittent operation, and a cathode constructed to maintain its emission capabilities after long periods of operation under cutoff conditions.

The grid voltage required to produce 100 microamperes in one section must not differ by more than 1.0 volt from the grid voltage required to produce 100 microamperes in the other section with a plate supply voltage of 150 volts and a plate load resistor of 20,000 ohms.

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE CHARACTERISTICS

