

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 μmf
Input (Each Section)	2.4 μmf
Output (Section 1) ¹	0.5 μmf
Output (Section 2) ¹	0.4 μmf
Plate to Plate	0.8 μmf

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 Bias05 Megohm Max.
Cathode Bias	0.1 Megohm Max.

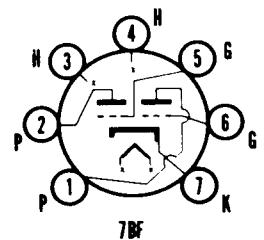
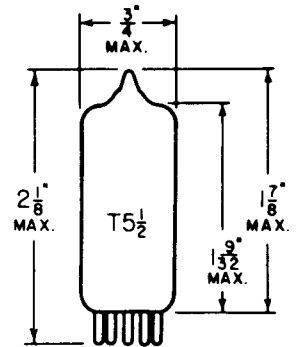
CHARACTERISTICS AND TYPICAL OPERATION (Each Section)

Average Characteristics	
Plate Voltage	100 Volts
Cathode Bias Resistor	470 Ohms
Plate Current	4.8 Ma
Amplification Factor	27
Transconductance	3400 μmhos
Plate Resistance (approx.)	7950 Ohms

	On Condition	Off Condition
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.

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

APRIL 1954

SYLVANIA

5844

NOTE:

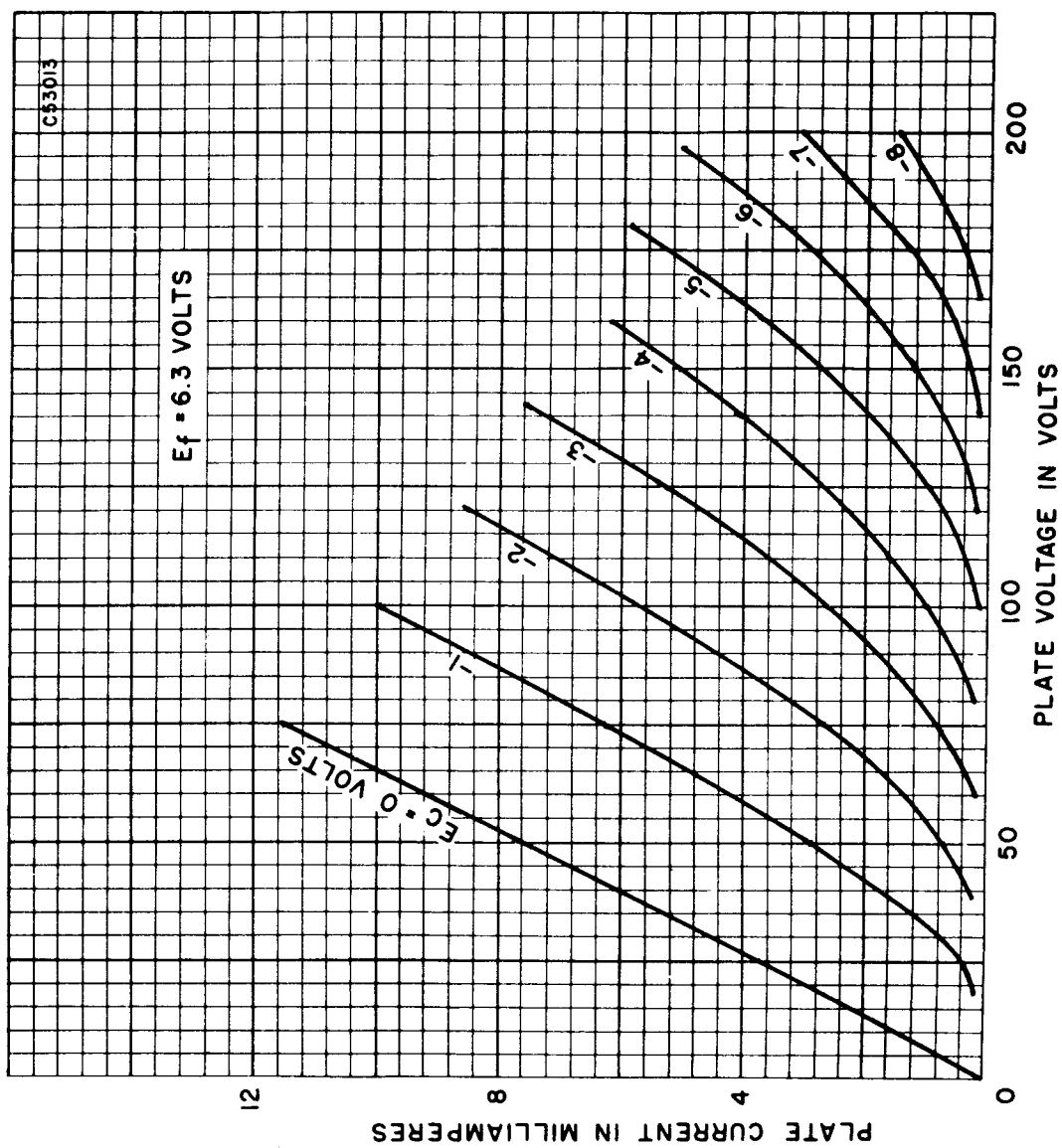
1. Section 1 connects to pins 2 and 5. Section 2 connects to pins 1 and 6.

APPLICATION

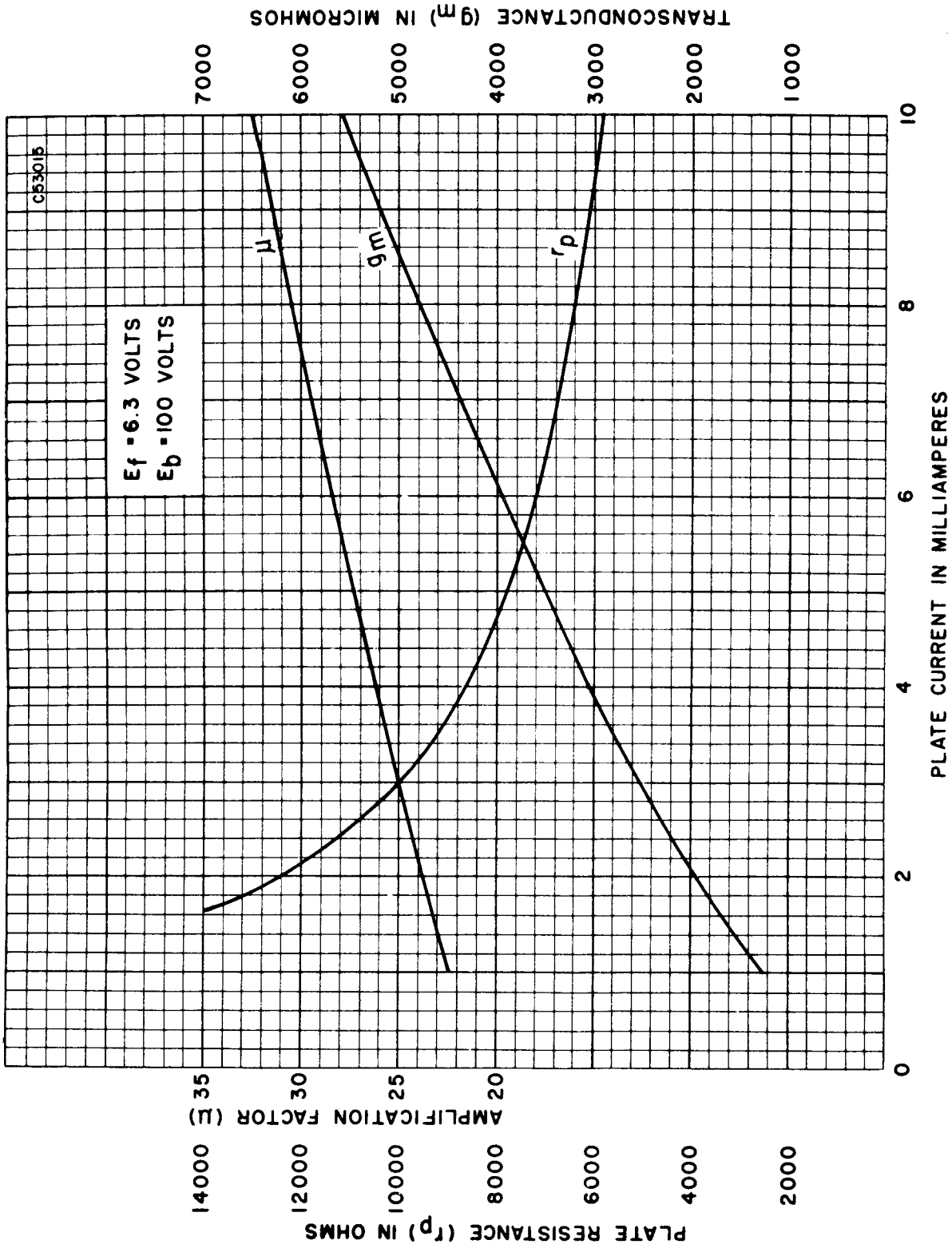
Sylvania type 5844 features relatively high zero-bias plate current and sharp cutoff, heater cathode construction designed for dependable service under conditions of intermittent operation, and a cathode constructed to maintain its emission capabilities after long periods of operation under cutoff conditions.

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

