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6350

MECHANICAL DATA

Bulb	T-6½
Base	E9-1, Small Button, 9 Pin
Basing	9CZ
Cathode	Coated Unipotential
Mounting Position	
Preferred	Upright or with Plate Majors in Vertical Position
Permissible	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage, ±5% (Series/Parallel)	12.6/6.3 Volts
Heater Current (Series/Parallel)	300/600 Ma
Heater Power (Series/Parallel)	3.8/3.8 Watts
Heater Cathode Voltage	
Heater Negative with Respect to Cathode:	
Total DC and Peak	200 Volts Max.
Heater Positive with Respect to Cathode:[1]	
DC	100 Volts Max.
Total DC and Peak	200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Each Section)

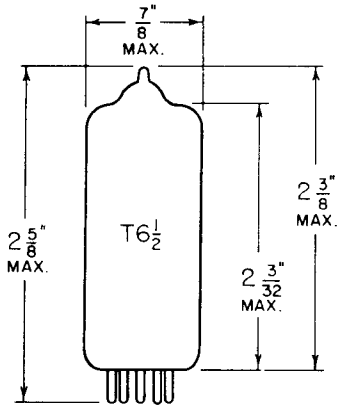
Grid to Plate	3.2 μμf
Input	3.6 μμf
Output	0.6 μμf
Grid to Grid	0.042 μμf Max.
Plate to Plate	1.0 μμf Max.
Heater to Cathode	4.6 μμf

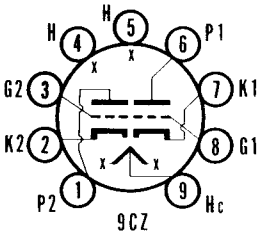
RATINGS (Design Center Values — Except as Noted)

Plate Voltage	300 Volts	Max.
Peak Positive Plate Voltage[2] (Abs. Max.)	1000 Volts	
Negative Grid Voltage	75 Volts	Max.
Positive Grid Voltage	3.5 Volts	Max.
Peak Negative Grid Voltage	400 Volts	Max.
Peak Positive Grid Voltage[2]	13 Volts	Max.
Average Positive Grid Current	5 Ma	Max.
Peak Positive Grid Current[2]	100 Ma	Max.
Average Cathode Current	25 Ma	Max.
Peak Cathode Current[2]	300 Ma	Max.
Plate Dissipation		
Each Plate	3.5 Watts	Max.
Both Plates	7.0 Watts	Max.
Bulb Temperature	120° C	Max.
Grid Circuit Resistance		
Fixed Bias	0.1 Megohm	Max.
Cathode Bias	0.5 Megohm	Max.

QUICK REFERENCE DATA

The Sylvania Type 6350 is a miniature, T-6½, twin triode designed for use in high speed digital computers. Each section of the 6350 features a high zero bias plate current, sharp cutoff and a separate cathode connection.





SYLVANIA ELECTRIC PRODUCTS INC.

RADIO TUBE DIVISION

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

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CHARACTERISTICS (Each Section)[3]

Conditions:

Plate Voltage	150 Volts
Grid Voltage	-5.0 Volts
Plate Current	11 Ma
Transconductance	4600 μmhos
Amplification Factor	18
Plate Resistance	3900 Ohms
Grid Voltage for I_b=100 μa[4]	-11 Volts
Grid Voltage for I_b=1.0 ma[5]	-12 Volts

Interelectrode Resistance, Each Section[6]

Plate to All (Min.)	50 Megohms
Grid to All (Min.)	50 Megohms

Time Dependent Characteristics

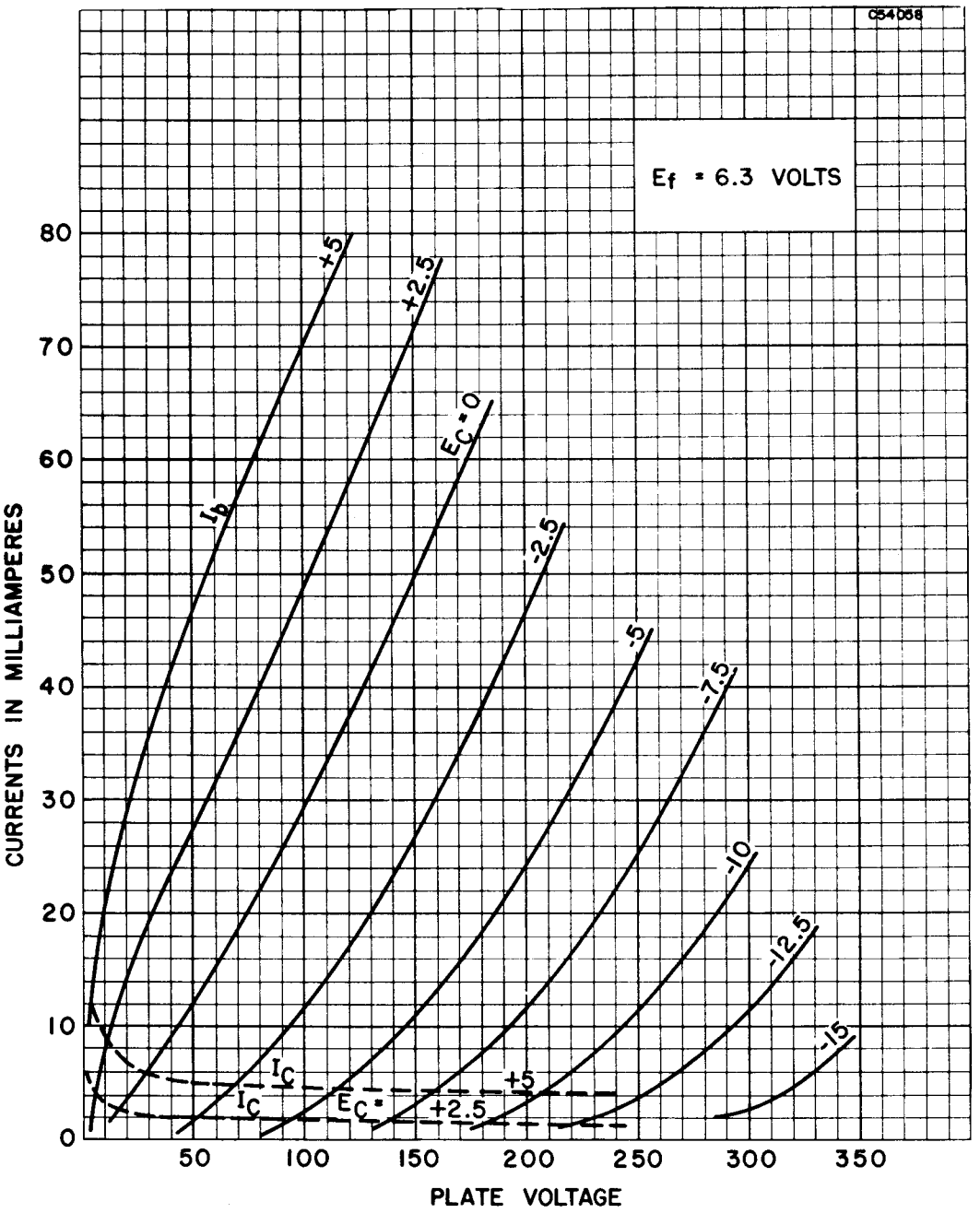
Minimum Number of Heater Cycles	2000
Regulation of Heater Supply (Max.)	4%
Heater Voltage (AC)	7.0 Volts
Heater Cathode Voltage (AC)	140 Volts

NOTES:

1. *Heater positive is not recommended for reliable operation.*
2. *At 8% duty cycle, 1 megacycle repetition rate.*
3. *Section not under test shall be grounded.*
4. *With plate voltage of 150 volts.*
5. *With plate voltage of 200 volts.*
6. *With applied d c voltage of 300 volts and heater voltage of 6.3 volts. Cathode Positive so that no cathode emission occurs.*

AVERAGE PLATE CHARACTERISTICS

EACH SECTION



AVERAGE CHARACTERISTICS