

MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button, 7-Pin
Outline	5-2
Basing	7BA
Cathode	Coated Filament
Mounting Position	Any

ELECTRICAL DATA

FILAMENT CHARACTERISTICS

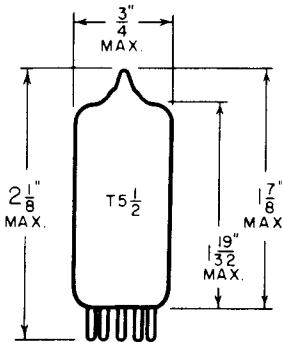
	Series	Parallel ¹
Filament Voltage		
Battery Operation	3.2	1.6 Volts Abs. Max.
A C/D C Line Operation (Design Center)	2.6	1.3 Volts Max.
Filament Voltage (DC)	2.8	1.4 Volts
Filament Current	50	100 Ma

RATINGS (Design Center Values)

	Series	Parallel ¹
	Filament	Filament
Plate Voltage	90	90 Volts Max.
Screen Voltage	67.5	67.5 Volts Max.
Cathode Current ² (Zero Signal)	6	12 Ma Max.

QUICK REFERENCE DATA

The Sylvania Type 3S4 is a miniature power amplifier pentode designed for service in portable, battery operated equipment. The electrical characteristics of the 3S4 are similar to those of the 1S4. The Type 3S4, however, is designed for operation from either a 1.4 volt or 2.8 volt filament supply.

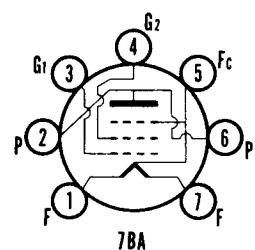


CHARACTERISTICS AND TYPICAL OPERATION

	Series	Parallel ¹
	Filament	Filament
Class A₁ Amplifier		
Plate Voltage	67.5	90
Screen Voltage	67.5	67.5
Negative Grid Voltage	-7	-7
Peak Signal Voltage	7	7
Zero Signal Plate Current	6.0	6.1
Zero Signal Screen Current	1.2	1.1
Transconductance	1400	1425
Load Resistance	5000	8000
Plate Resistance (approx.)	0.1	0.1
Total Harmonic Distortion	12	13
Maximum Signal Power Output	160	235
	180	270 Milliwatts

NOTES:

- For parallel operation, tie pins 1 and 7. Negative end of filament connected to pin No. 5.
- When series filament connections are used, a shunting resistor should be used across the negative filament section (pins 1 and 5) to limit cathode current to the value specified. If other tubes in a series filament string contribute to the filament current, another resistor should be connected between pins 1 and 7 to carry any excess current over the ratings.



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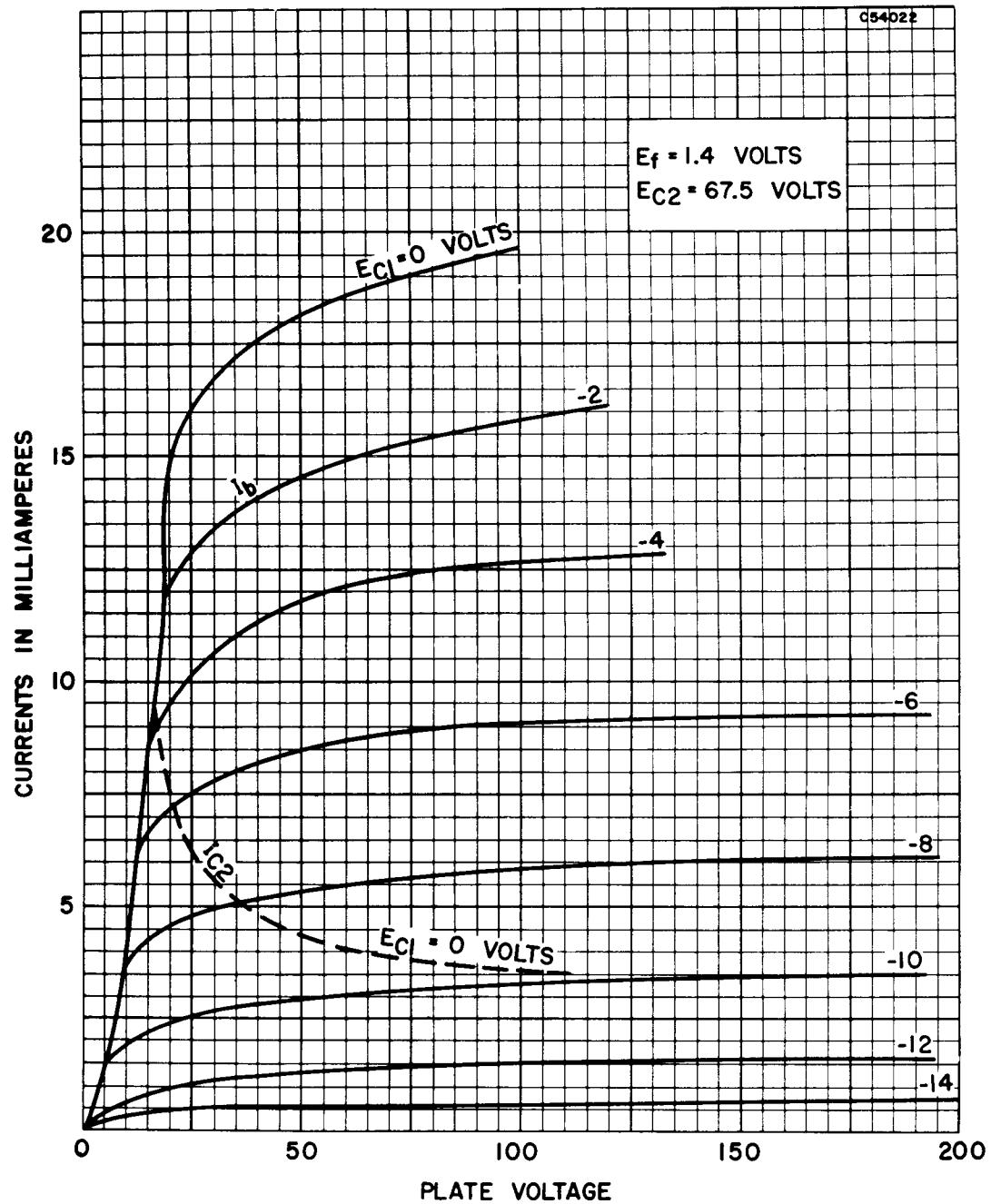
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Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

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3S4

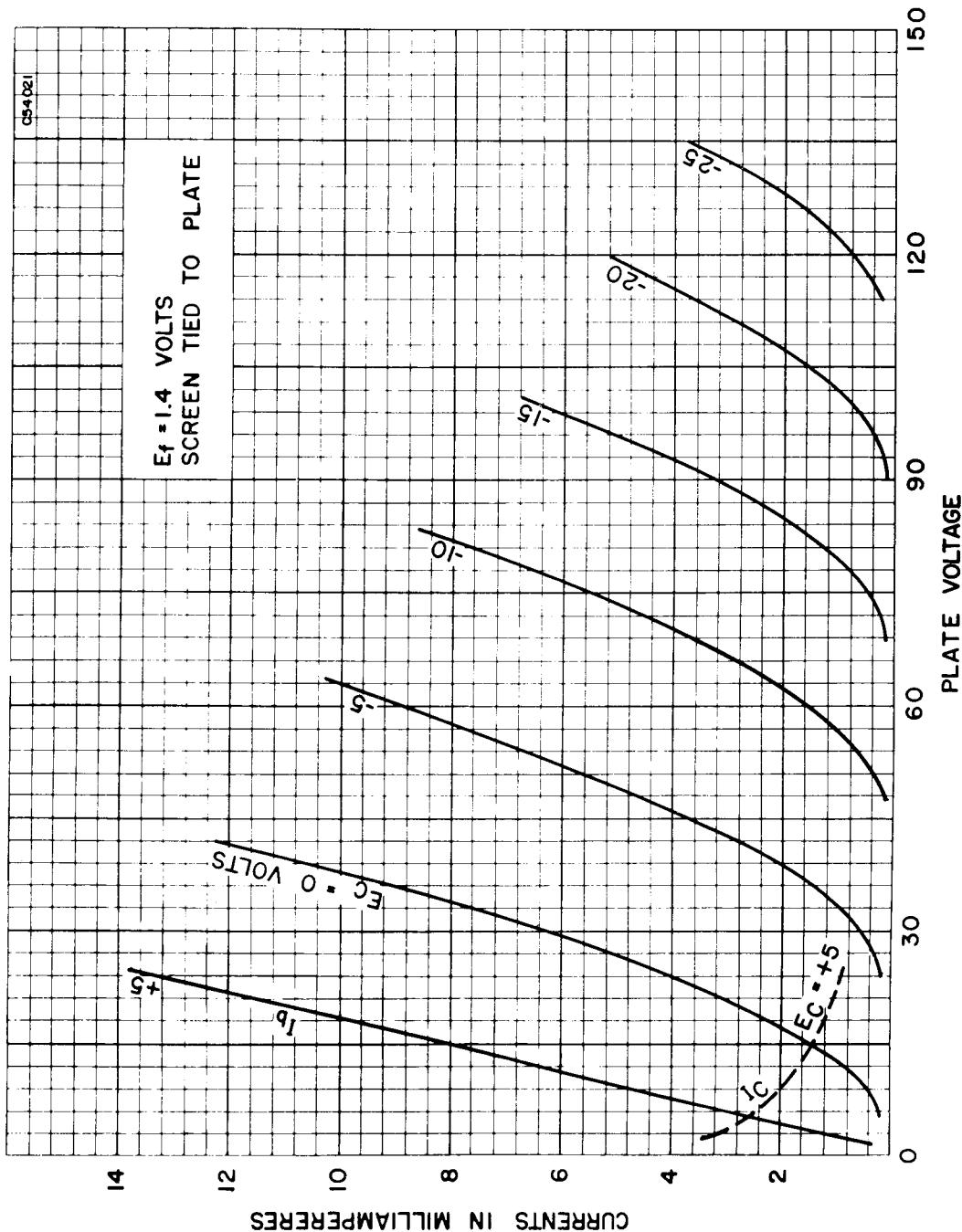
AVERAGE PLATE CHARACTERISTICS



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