

**MECHANICAL DATA**

Bulb . . . . .	T-51/2
Base . . . . .	E7-1, Miniature Button 7-Pin
Outline . . . . .	5-2
Basing . . . . .	7EW
Cathode . . . . .	Coated Unipotential
Mounting Position . . . . .	Any

**ELECTRICAL DATA**

**HEATER CHARACTERISTICS**

Heater Voltage Range . . . . .	12-15 Volts	
Heater Current at Ef = 13.5 Volts . . . . .	90 Ma	
Heater-Cathode Voltage (Design Maximum Values)		
Heater Negative with Respect to Cathode		
Total DC and Peak . . . . .	100 Volts	Max.
Heater Positive with Respect to Cathode		
DC . . . . .	50 Volts	Max.
Total DC and Peak . . . . .	100 Volts	Max.

**DIRECT INTERELECTRODE CAPACITANCES (Shielded)<sup>1</sup>**

Grid No. 1 to Plate . . . . .	0.03 $\mu\mu\text{f}$	Max.
Input . . . . .	4.4 $\mu\mu\text{f}$	
Output . . . . .	2.74 $\mu\mu\text{f}$	

**RATINGS (Design Maximum Values)**

Plate Voltage . . . . .	180 Volts	Max.
Grid No. 2 Supply Voltage . . . . .	180 Volts	Max.
Grid No. 2 Voltage . . . . .	See Rating Chart	
Plate Dissipation . . . . .	2.0 Watts	Max.
Grid No. 2 Dissipation . . . . .	0.5 Watts	Max.
Positive Grid No. 1 Voltage . . . . .	0 Volts	Max.
Cathode Current . . . . .	20 Ma	Max.
Grid No. 1 Circuit Resistance . . . . .	0.5 Megohm	Max.

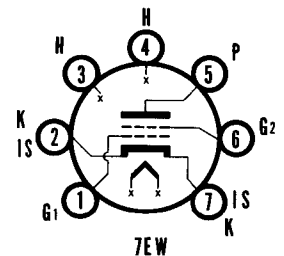
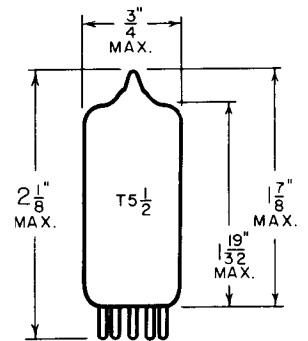
**CHARACTERISTICS AND TYPICAL OPERATION**

Plate Voltage . . . . .	125 Volts
Grid No. 2 Voltage . . . . .	80 Volts
Grid No. 1 Voltage . . . . .	-1.0 Volt
Plate Current . . . . .	10 Ma
Grid No. 2 Current . . . . .	1.4 Ma
Transconductance . . . . .	8000 $\mu\text{mhos}$
Plate Resistance . . . . .	0.125 Megohm
EC <sup>1</sup> for Gm = 100 $\mu\text{mhos}$ (approx.) . . . . .	-5 Volts

**QUICK REFERENCE DATA**

The Sylvania Type 7167 is a miniature, sharp cutoff tetrode intended for use in mobile communications equipment. Featuring a 13.5 volt heater, the 7167 is designed for dependable operation over the wide range of heater voltage encountered in this service.

Except for heater characteristics, the Type 7167 is similar to the 6CY5.



**SYLVANIA  
ELECTRONIC TUBES**  
A Division of  
Sylvania Electric Products Inc.

**RECEIVING TUBE  
OPERATIONS  
EMPORIUM, PA.**

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File Under

RECEIVING TUBES

**SPECIAL TESTS**

Heater Cycling Life Test

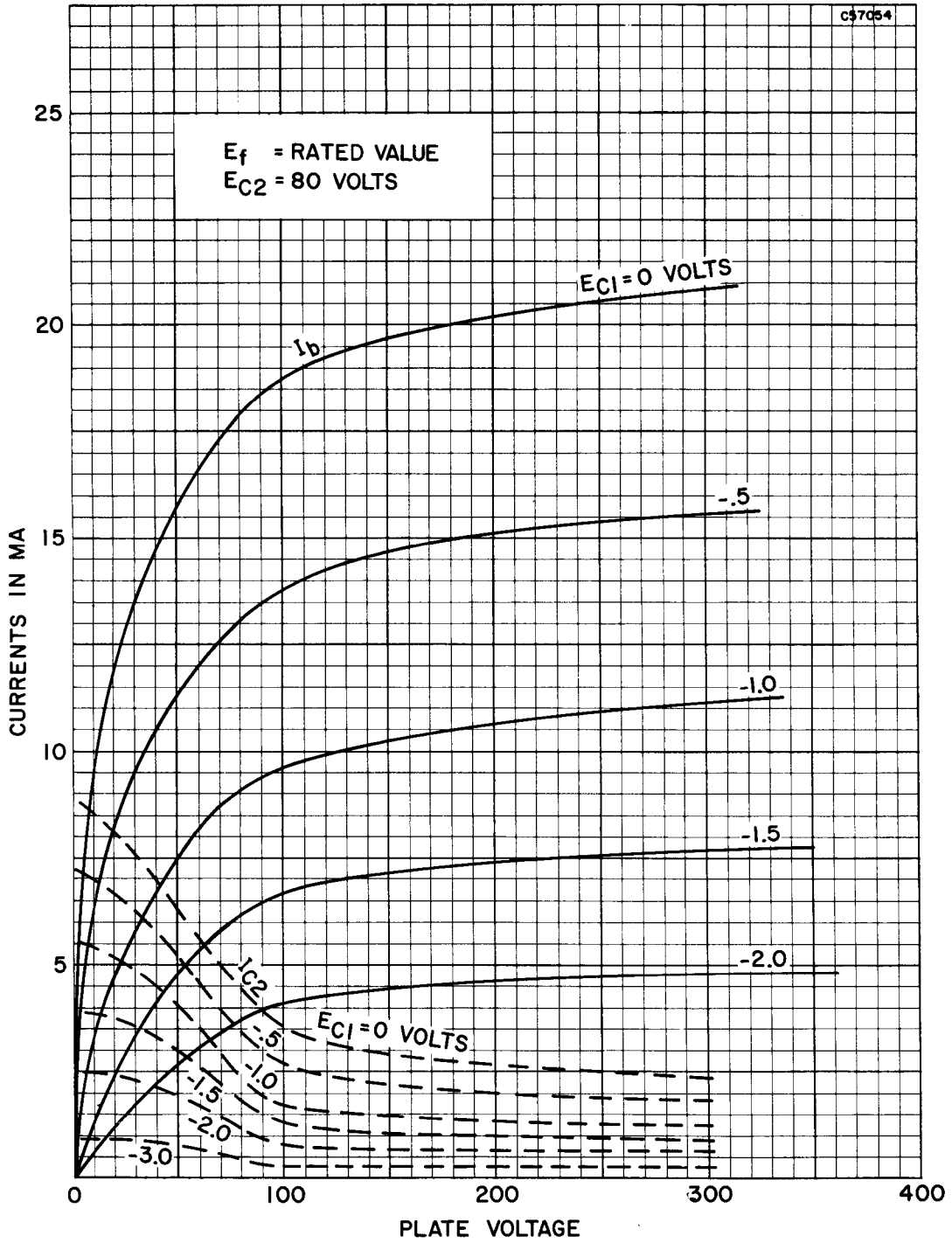
Ef = 17.0 V; 1 min. on, 4 min. off;

Ehk = -150 Vdc . . . . . 2000 Cycles Min.

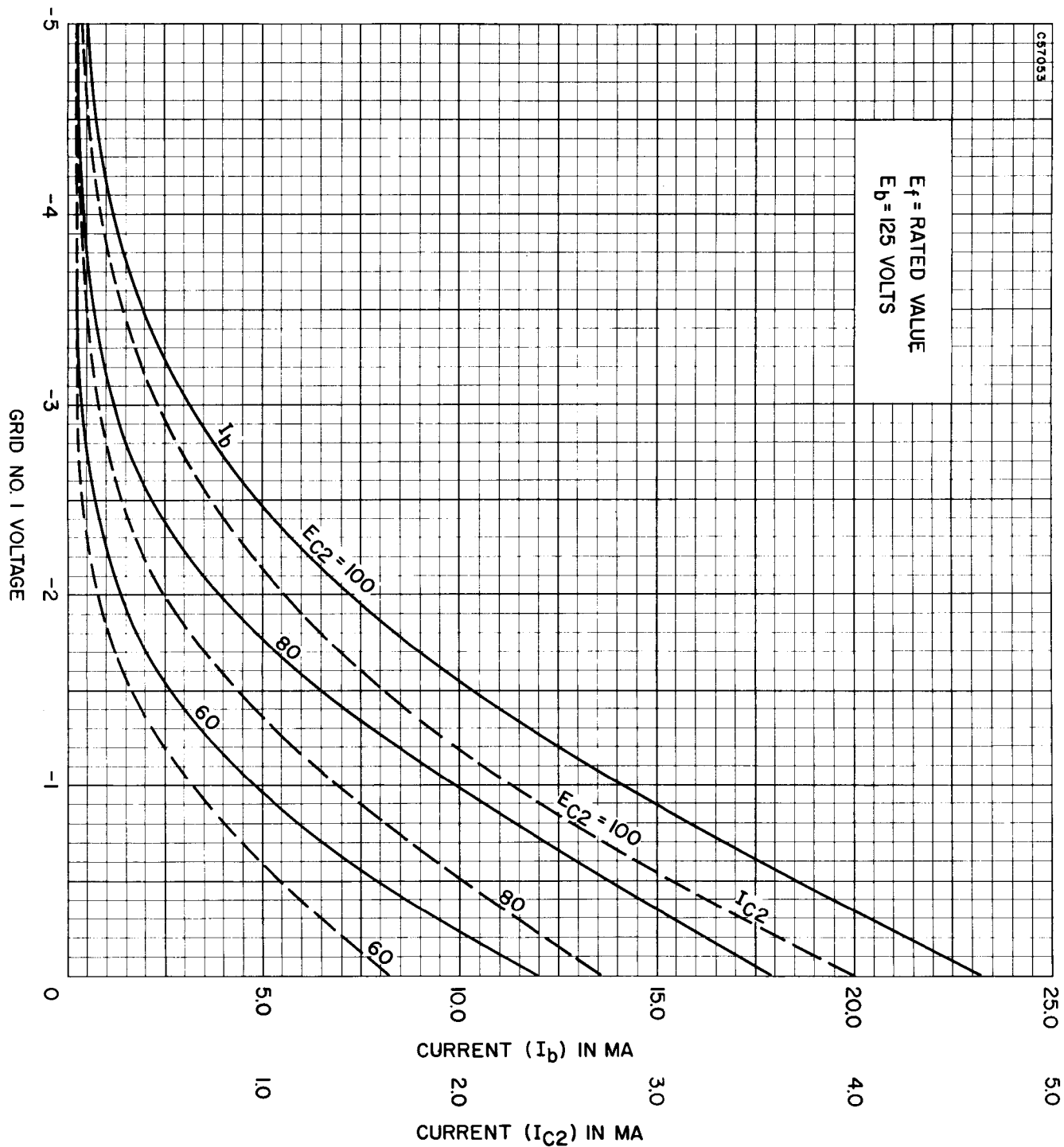
**NOTE:**

1. Shield No. 316 connected to cathode.

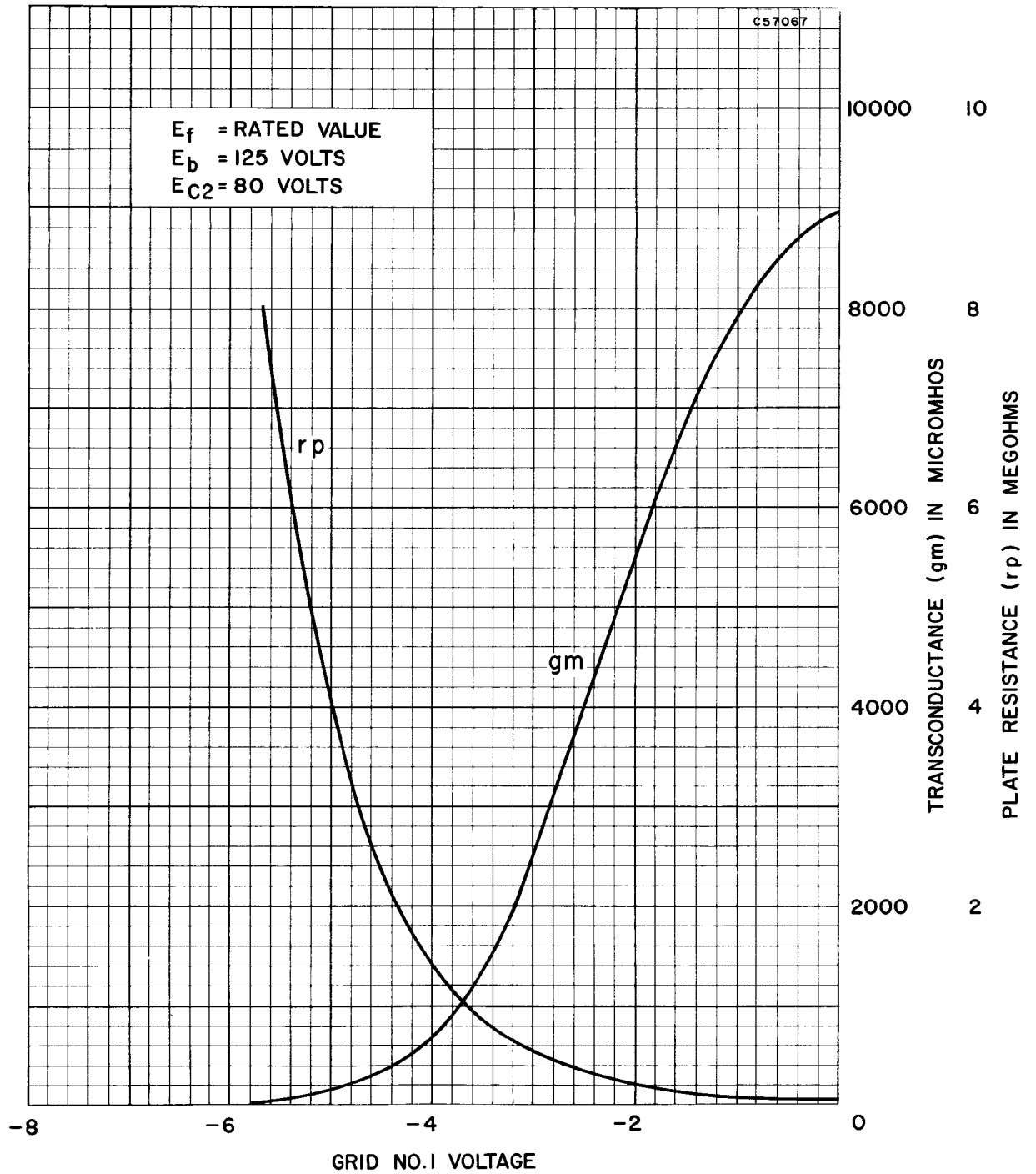
AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



RATING CHART

