

Type 6661/6BH6 is designed specifically for use in mobile communications equipment. The 6661/6BH6 may be operated without serious degradation under normal variations in supply voltage as encountered with automotive electrical systems. Also consistent with the requirements of the equipment the tube is capable of withstanding appreciable on-off cycling.

MECHANICAL DATA

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

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ¹	6.3 Volts	
Heater Current	150 Ma	
Heater-Cathode Voltage (Design Center Values)		
Heater Negative with Respect to Cathode	100 Volts	Max.
Heater Positive with Respect to Cathode	100 Volts	Max.

DIRECT INTERELECTRODE CAPACITANCES

	Shielded	Unshielded	
Grid to Plate	0.0035	0.0035 $\mu\mu\text{f}$	Max.
Input	5.4	5.4 $\mu\mu\text{f}$	
Output	4.4	4.4 $\mu\mu\text{f}$	

RATINGS (Design Center Values)

Plate Voltage	330 Volts	Max.
Grid No. 2 Supply Voltage	330 Volts	Max.
Grid No. 2 Voltage	See Rating Chart	
Plate Dissipation	3.3 Watts	Max.
Grid No. 2 Dissipation	0.55 Watt	Max.
Negative Grid No. 1 Voltage	55 Volts	Max.
Positive Grid No. 1 Voltage	0 Volts	Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier			
Plate Voltage	100	250 Volts	
Grid No. 3 Voltage	Connected to Cathode at Socket		
Grid No. 2 Voltage	100	150 Volts	
Cathode Bias Resistor	200	100 Ohms	
Plate Current	3.6	7.4 Ma	
Grid No. 2 Current	1.4	2.6 Ma	
Transconductance	3400	4600 μmhos	
Plate Resistance (Approx.)	0.7	1.4 Megohm	
Ec1 for Ib = 10 μa (Approx.)	-5.0	-7.7 Volts	

SPECIAL TESTS AND RATINGS

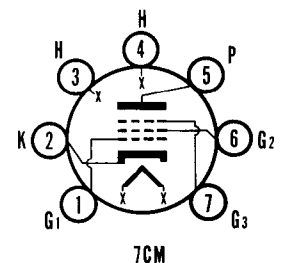
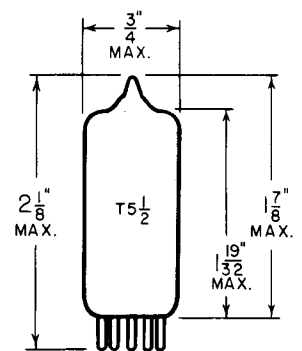
Heater-Cycling Ratings

Cycles of Intermittent Operation (Minimum)	2000 Cycles
Ef = 7.5 volts cycled for one minute on and one minute off.	
Eb + Ec2 + Ec3 + Ec1 = 0 Volts.	
Ehk = 135 volts with heater positive with respect to cathode.	
Average Transconductance at Reduced Heater Voltage	3600 μmhos
Ef = 5.0 volts, Eb = 250 volts, Ec3 = 0 volts, Ec2 = 150 volts and Rk = 100 ohms (bypassed)	

QUICK REFERENCE DATA

Sylvania Type 6661/6BH6 is designed specifically for mobile operation. It is a T-5½ sharp cut-off pentode intended for use as a R-F or I-F amplifier.

Type 6661/6BH6 possesses electrical characteristics essentially equivalent to Type 6BH6.



SYLVANIA ELECTRONIC TUBES

A Division of
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RECEIVING TUBE OPERATIONS EMPORIUM, PA.

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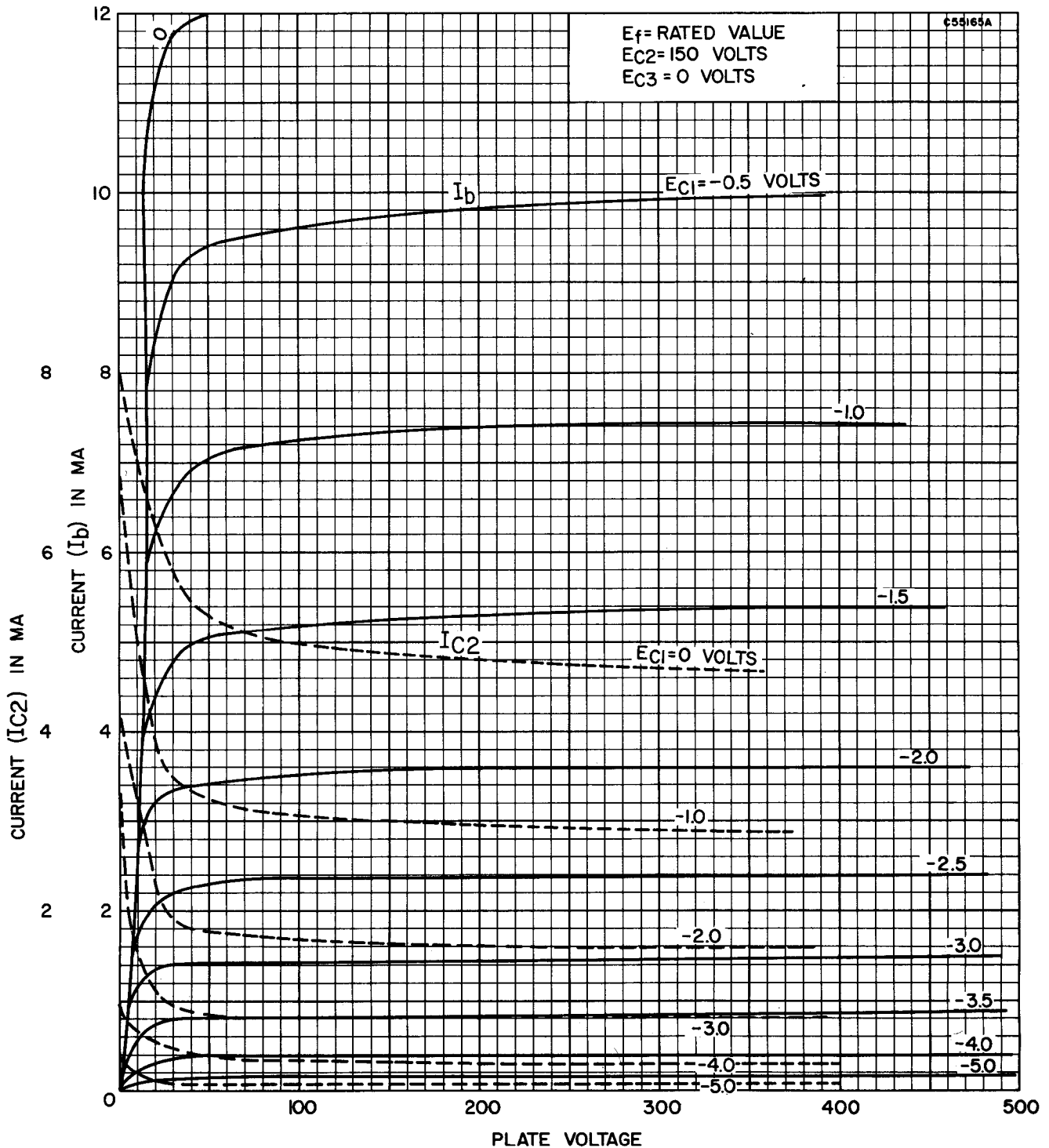
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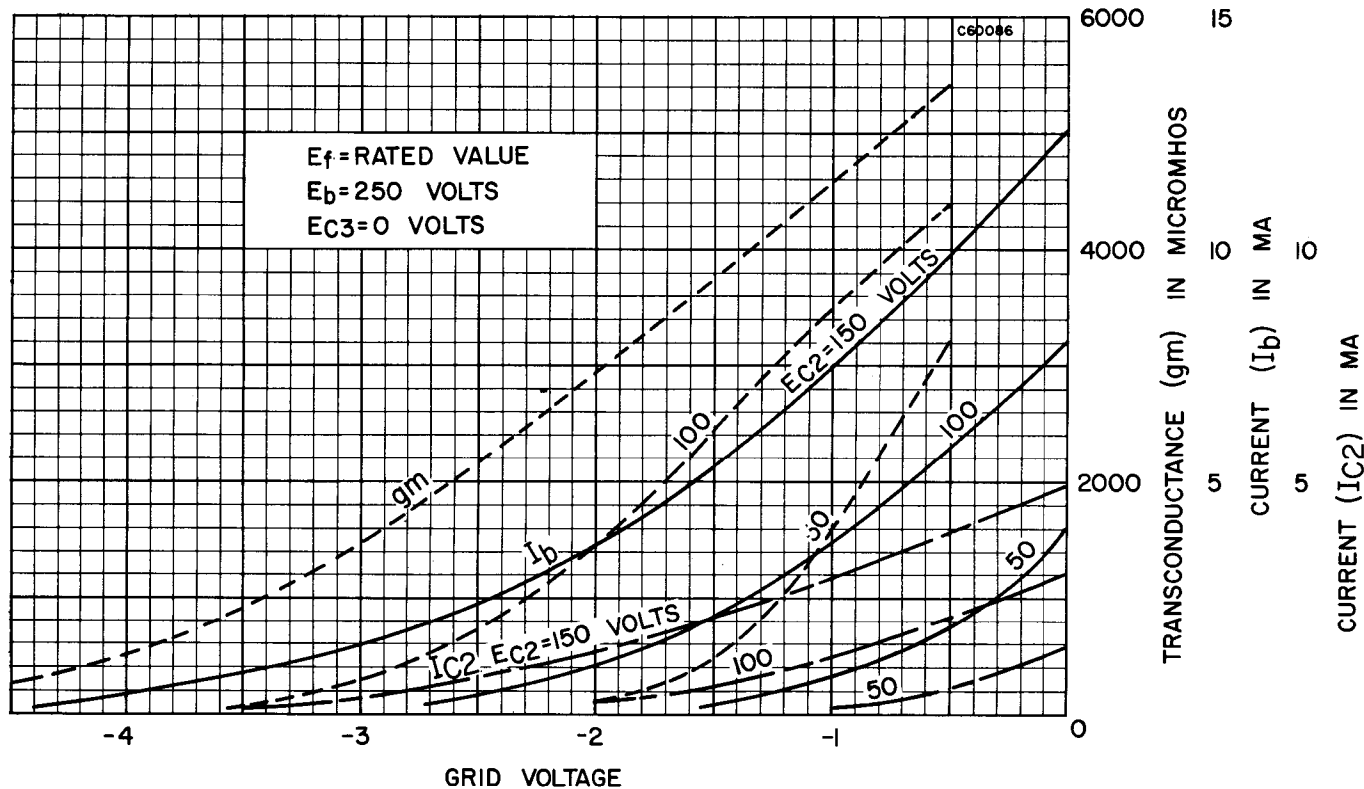
NOTE:

1. When operated from automotive electrical systems, the heater may be subjected to voltage variations as great as ± 20 percent. Although such extremes in heater voltage may be tolerated for short periods, increased equipment reliability can be achieved with improved supply-voltage regulation.

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



RATING CHART

