

Type 6660/6BA6 is designed specifically for use in mobile communications equipment. The 6660/6BA6 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	7BK
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ¹	6.3 Volts	
Heater Current	300 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 No. 1 to Plate0035	.0035 $\mu\mu\text{f}$	Max.
Input	5.5	5.5 $\mu\mu\text{f}$	
Output	5.5	5.0 $\mu\mu\text{f}$	

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	0.65 Watts	Max.
Negative Grid No. 1 Voltage	55 Volts	Max.
Positive Grid No. 1 Voltage	0 Volts	Max.

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	100	250 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket	
Grid No. 2 Voltage	100	100 Volts
Cathode Bias Resistor	68	68 Ohms
Plate Resistance (Approx.)	0.25	1.0 Megohm
Transconductance	4300	4400 μmhos
Plate Current	10.8	11.0 Ma
Grid No. 2 Current	4.4	4.2 Ma
Ec ¹ for Gm = 40 μmhos (Approx.)	-20	-20 Volts

SPECIAL TESTS AND RATINGS

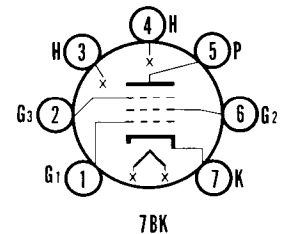
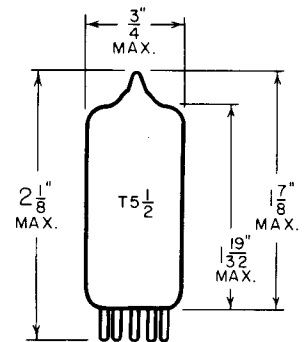
Heater-Cycling Rating

Cycles of Intermittent Operation (Minimum)	2000 Cycles
E _f = 7.5 volts cycled for one minute on and one minute off.	
E _b + Ec ₃ + Ec ₂ + Ec ₁ = 0 volts.	
E _{hk} = 135 volts with heater positive with respect to cathode.	
Average Transconductance at Reduced Heater Voltage	3500 μmhos
E _f = 5.0 volts, E _b = 250 volts, Ec ₃ = 0 volts, Ec ₂ = 100 volts and R _k = 68 ohms (bypassed).	

QUICK REFERENCE DATA

Sylvania Type 6660/6BA6 is designed specifically for mobile operation. It is a T-5½ semi-remote cutoff pentode intended for use as an R-F or I-F amplifier.

Type 6660/6BA6 possesses electrical characteristics essentially equivalent to Type 6BA6.



SYLVANIA ELECTRONIC TUBES

A Division of Sylvania Electric Products Inc.

RECEIVING TUBE OPERATIONS EMPORIUM, PA.

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AUGUST, 1960

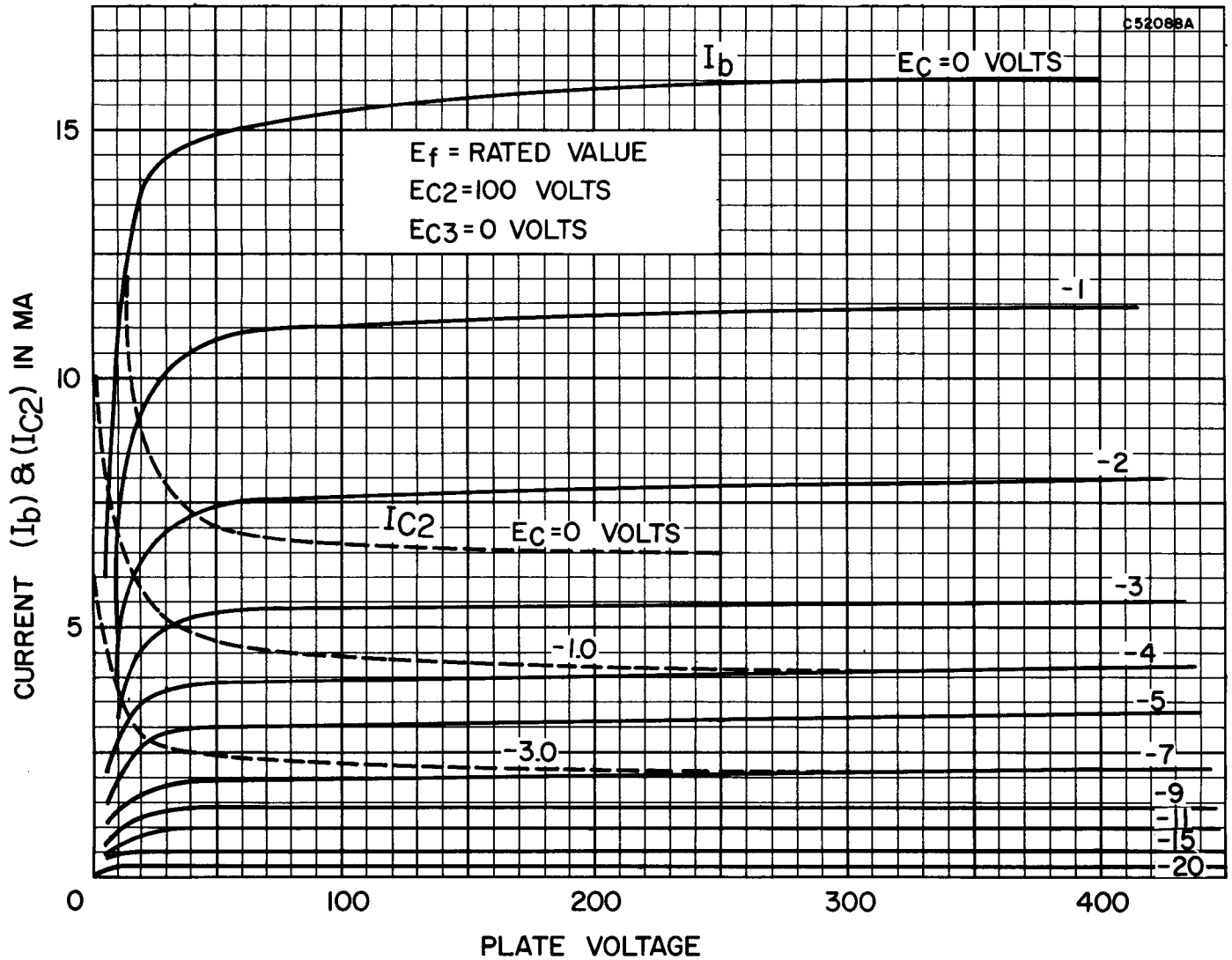
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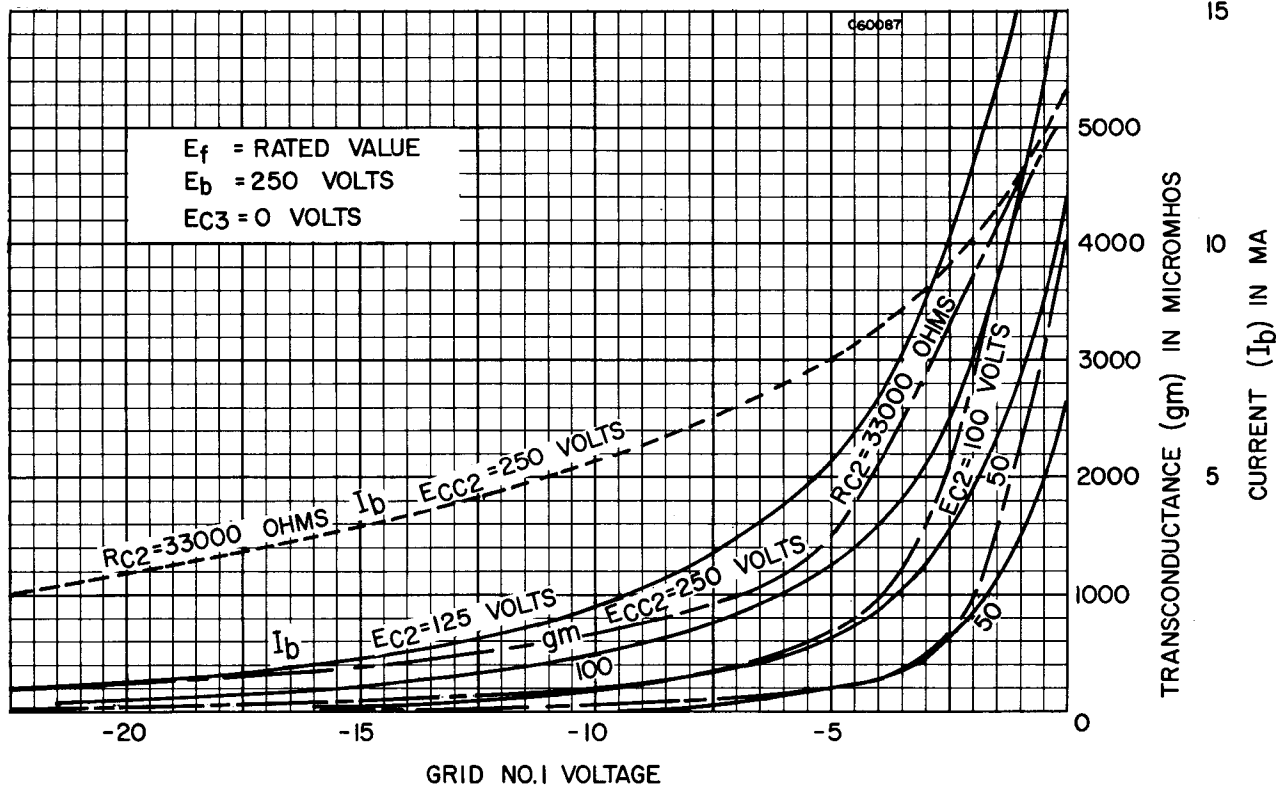
NOTE:

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

