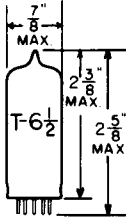


TUNG-SOL

TRIODE PENTODE

MINIATURE TYPE



GLASS BULB

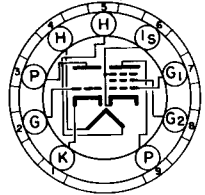
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.6 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
9 PIN BASE

90X

THE 6BH8 IS A SHARP CUTOFF PENTODE AND A MEDIUM MU TRIODE IN THE 9-PIN MINIATURE CONSTRUCTION. THE TUBE IS SUITABLE FOR GENERAL PURPOSE APPLICATIONS IN BOTH MONOCHROME AND COLOR TELEVISION RECEIVERS. THE HIGH FIGURE OF MERIT OF THE PENTODE SECTION MAKES IT PARTICULARLY SUITED FOR SERVICE AS A VIDEO AMPLIFIER, VIDEO INTERMEDIATE FREQUENCY AMPLIFIER AND SOUND INTERMEDIATE FREQUENCY AMPLIFIER. THE TRIODE SECTION IS INTENDED FOR USE AS A SYNC AMPLIFIER, SEPARATOR, OR CLIPPER OR AS A SWEEP OSCILLATOR. THE TRIODE SECTION MAY ALSO BE CONNECTED AS A DIODE FOR VIDEO-DETECTOR APPLICATIONS. THERMAL CHARACTERISTICS OF THE HEATER ARE CONTROLLED SUCH THAT HEATER VOLTAGE SURGES DURING THE WARM-UP CYCLE ARE MINIMIZED PROVIDED IT IS USED WITH OTHER TYPES WHICH ARE SIMILARLY CONTROLLED.

DIRECT INTERELECTRODE CAPACITANCES
WITH NO EXTERNAL SHIELD

	PENTODE SECTION	TRIODE SECTION	μf
GRID #1 TO PLATE	0.046	2.4	μf
INPUT	7	2.6	μf
OUTPUT	2.4	0.38	μf
PENTODE GRID #1 TO TRIODE PLATE	0.004		μf
TRIODE GRID TO PENTODE PLATE	0.016		μf
PENTODE PLATE TO TRIODE PLATE	0.095		μf

CONTINUED ON FOLLOWING PAGE

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

	PENTODE SECTION	TRIODE SECTION	
HEATER VOLTAGE	6.3		VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK	200		VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC	100		VOLTS
TOTAL DC AND PEAK	200		VOLTS
MAXIMUM PLATE VOLTAGE	300	300	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	300	---	VOLTS
MAXIMUM GRID #2 VOLTAGE	SEE RATING CHART		
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	0	VOLTS
MAXIMUM PLATE DISSIPATION	3.0	2.5	WATTS
MAXIMUM GRID #2 DISSIPATION	1.0	---	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE:			
FIXED BIAS	0.25	0.5	MEGOHM
CATHODE BIAS	1.0	1.0	MEGOHM
HEATER WARM-UP TIME (APPROX.) ^A	11.0		SECONDS

^A HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

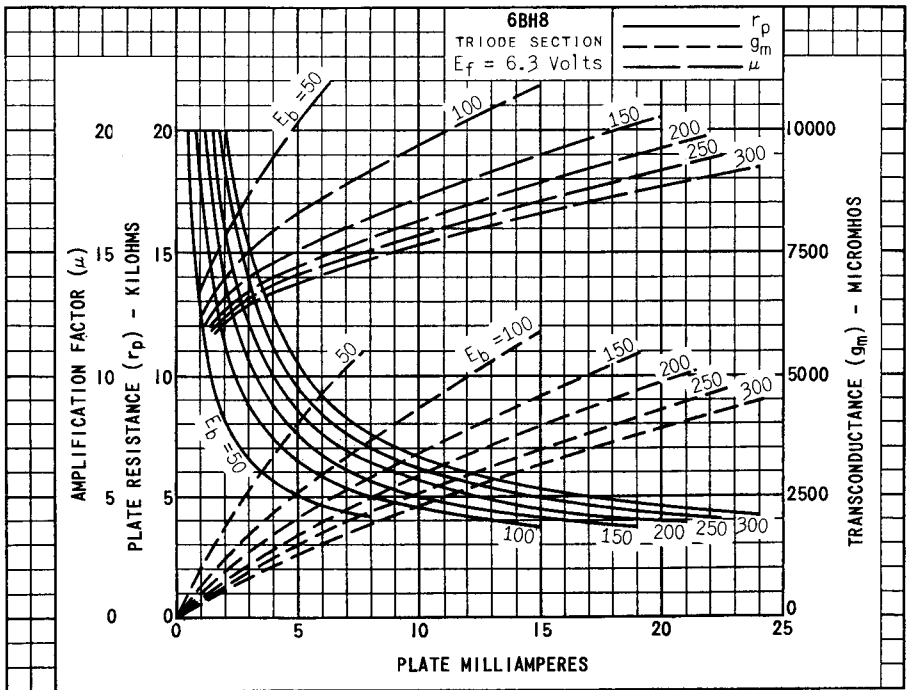
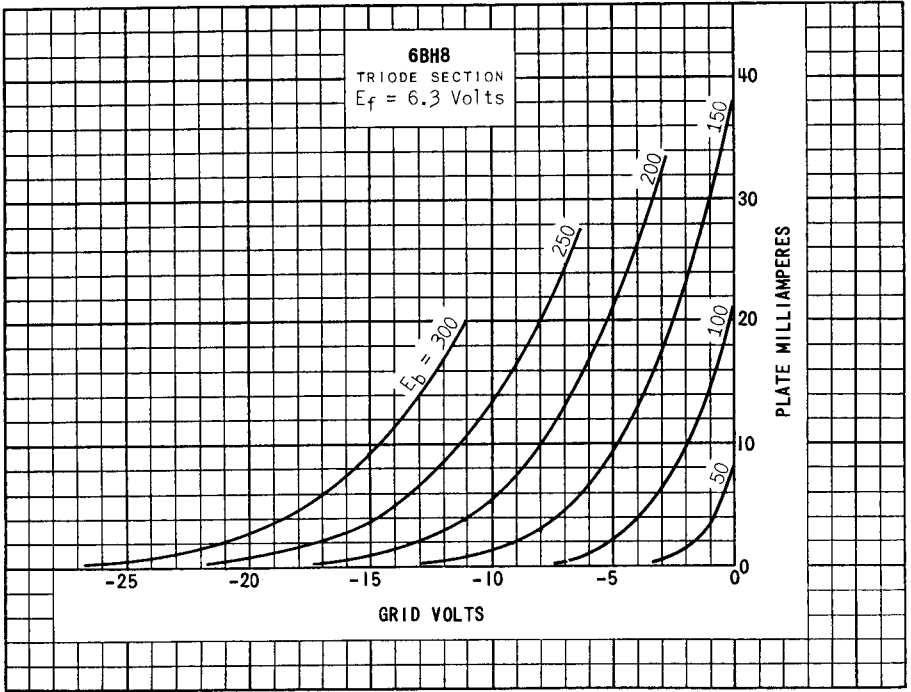
CLASS A₁ AMPLIFIER

	PENTODE SECTION	TRIODE SECTION	
HEATER VOLTAGE	6.3		VOLTS
HEATER CURRENT	0.6		AMP.
PLATE VOLTAGE	200	150	VOLTS
GRID #2 VOLTAGE	125	---	VOLTS
CATHODE BIAS RESISTOR	82	---	OHMS
AMPLIFICATION FACTOR	---	17	
PLATE RESISTANCE (APPROX.)	150 000	5 150	OHMS
TRANSCONDUCTANCE	7 000	3 300	μMHOS
PLATE CURRENT	15	9.5	MA.
GRID #2 CURRENT	3.4	---	MA.
GRID #1 VOLTAGE (APPROX.) FOR I _b = 100 μAMP.	-8	-14	VOLTS
GRID #1 VOLTAGE	---	-5	VOLTS

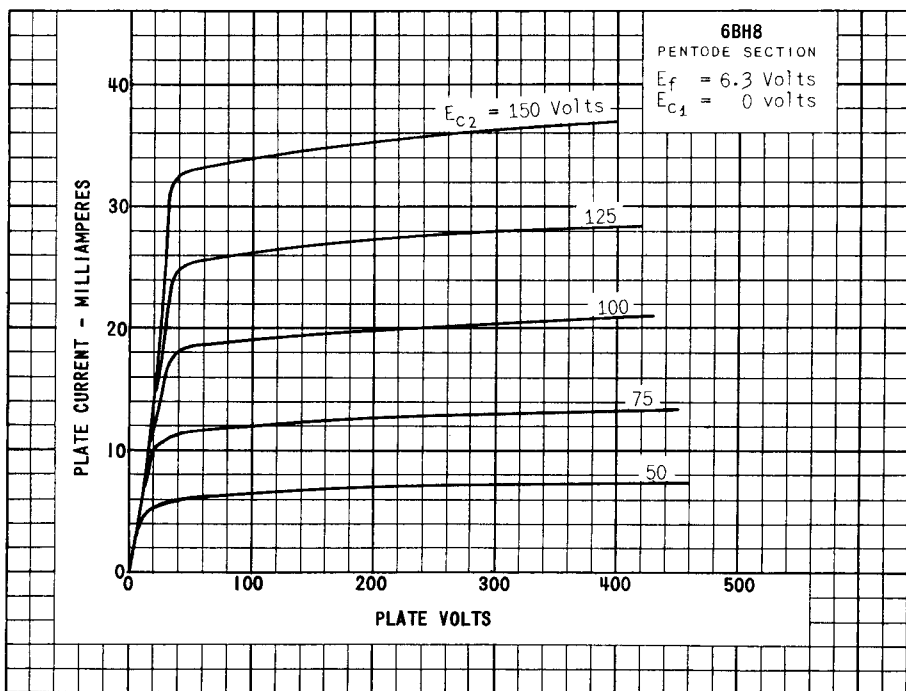
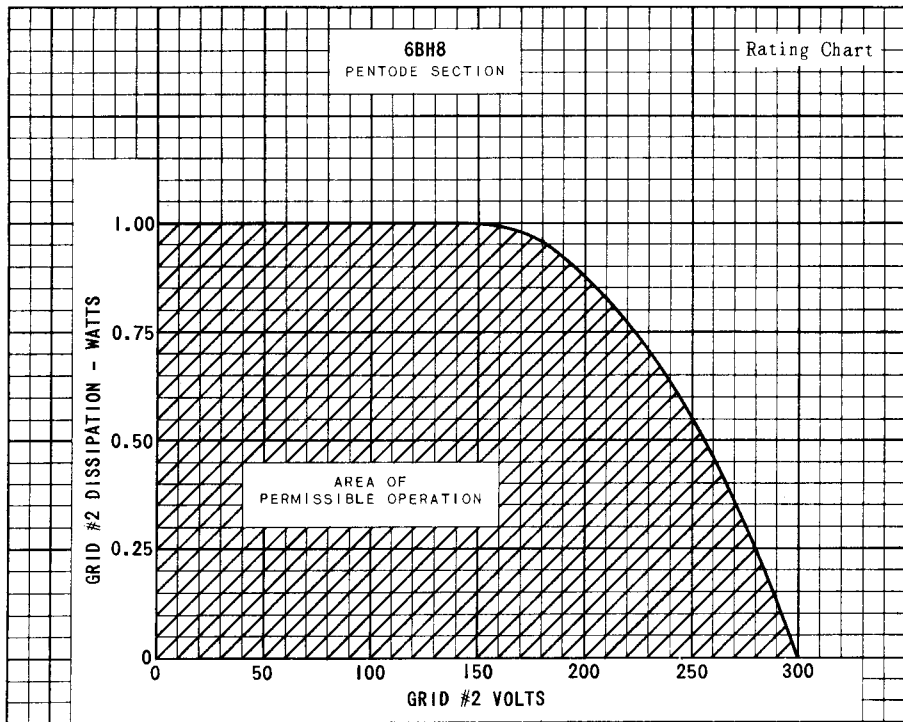
NOTE:

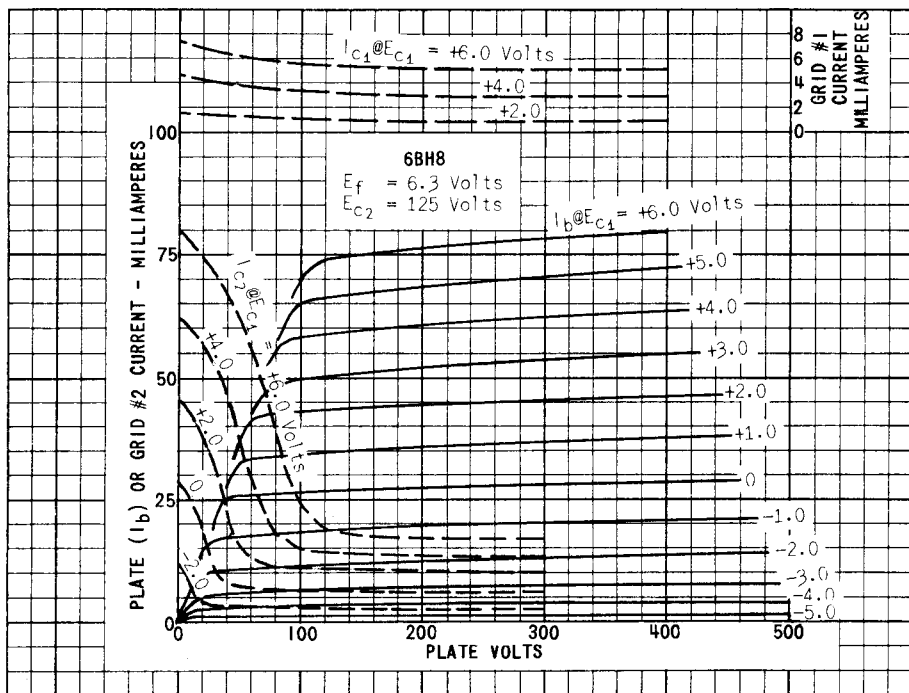
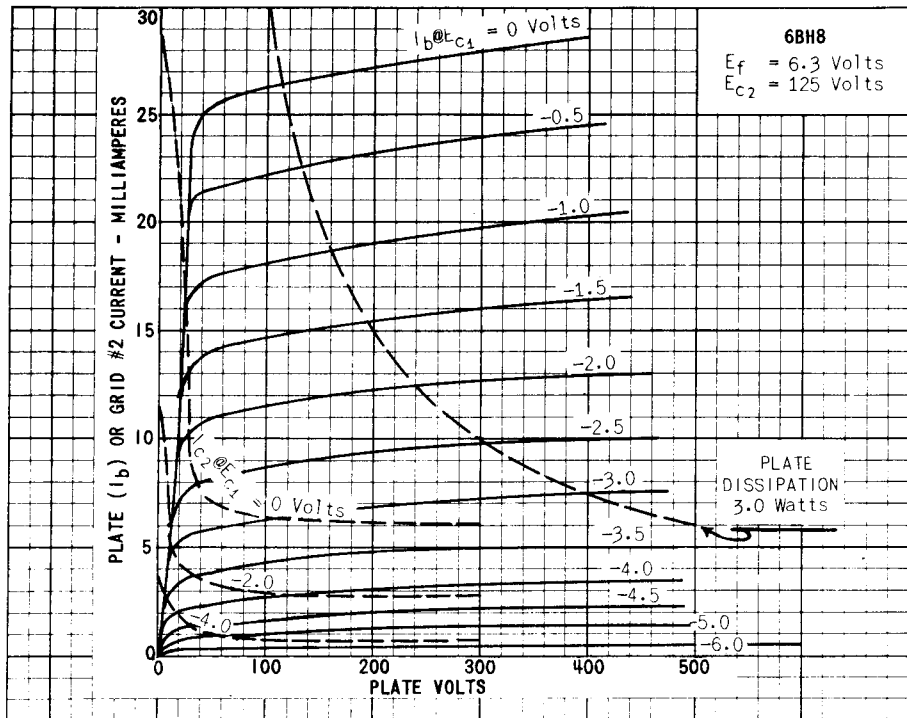
THE TRIODE SECTION OF THE 6BH8 MAY BE DIODE-CONNECTED AND EMPLOYED AS A HIGH-PERVEANCE DIODE IN VIDEO-DETECTOR APPLICATIONS. THE DIODE OPERATION CAN BE OBTAINED EITHER WITH THE TRIODE GRID CONNECTED TO THE TRIODE PLATE AND THE COMBINATION OPERATED AS THE PLATE OF THE DIODE, OR WITH THE TRIODE PLATE GROUNDING AND THE TRIODE GRID OPERATED AS THE PLATE OF THE DIODE.

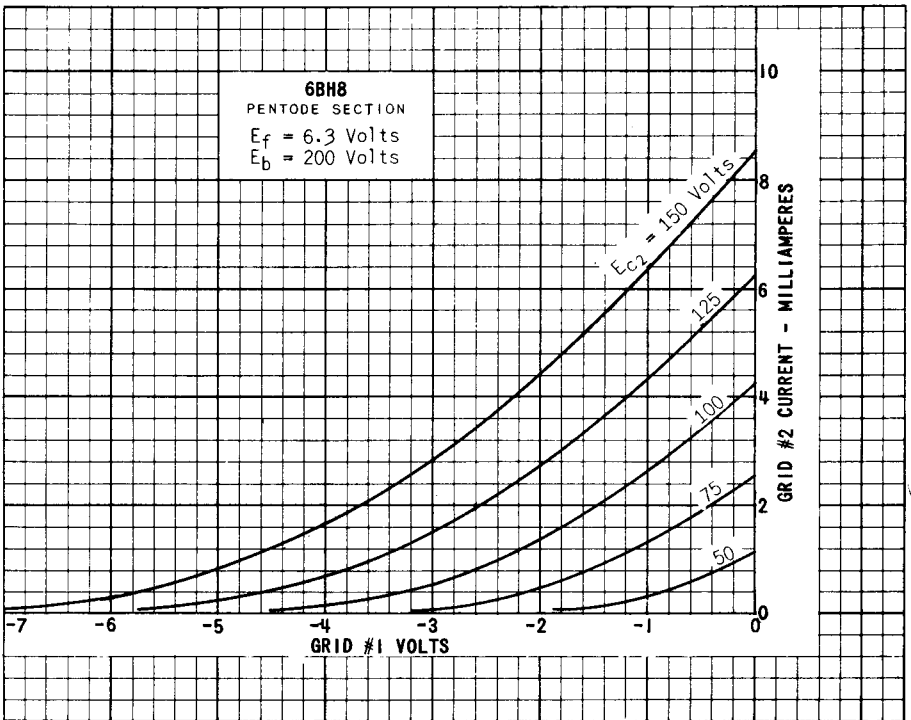
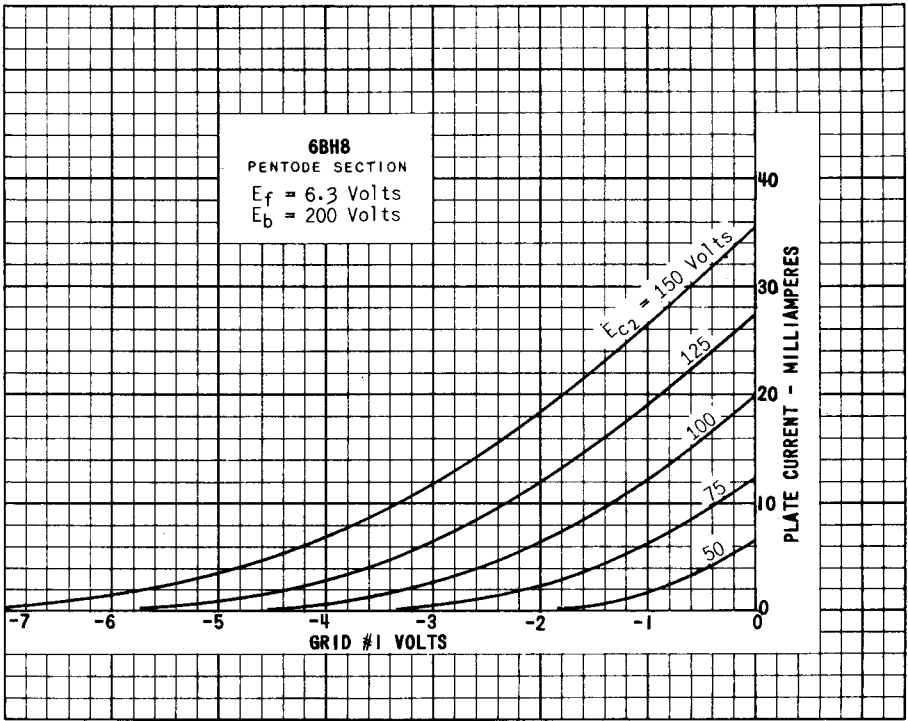
SIMILAR TYPE REFERENCE: EXCEPT FOR THE ELECTRICAL CHARACTERISTICS OF THE TRIODE SECTION, THE 6BH8 IS IDENTICAL TO THE 6A08.

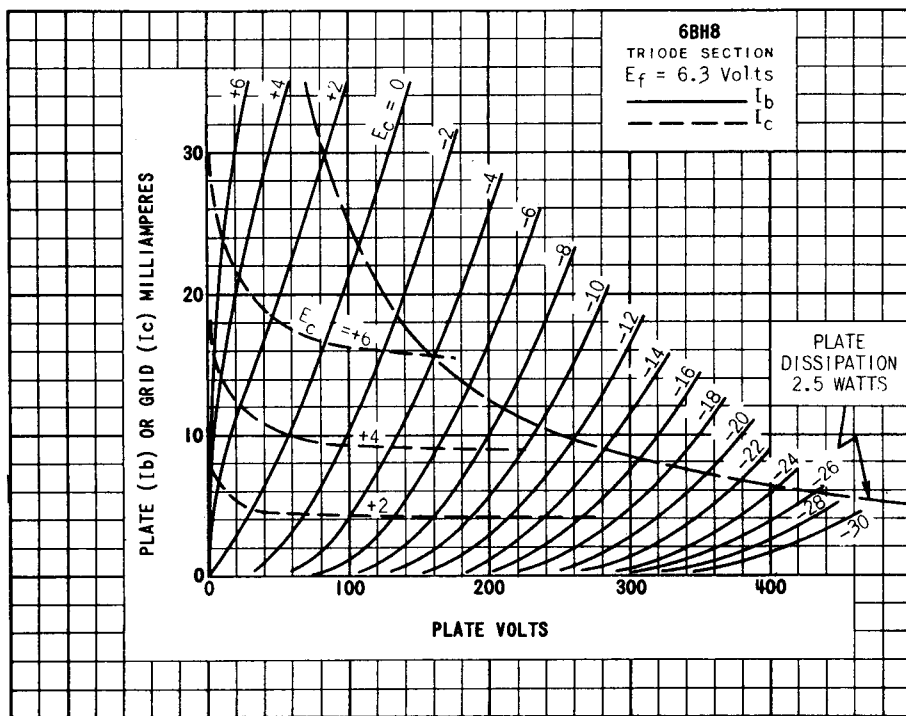
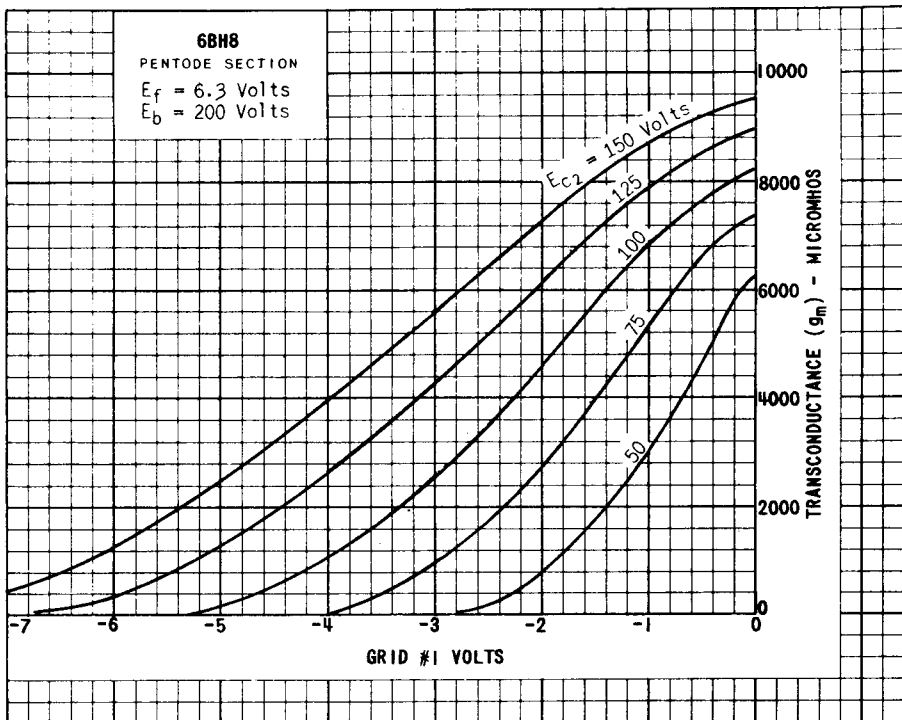


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