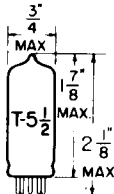


## TUNG-SOL

## HEPTODE

MINIATURE TYPE



GLASS BULB

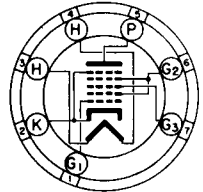
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.3 AMP.

AC OR DC

ANY MOUNTING POSITION


**BOTTOM VIEW**  
 MINIATURE BUTTON  
 7 PIN BASE

7CH

THE 6CS6 IS A MINIATURE DUAL CONTROL PENTAGRID TUBE INTENDED FOR USE IN SYNC SEPARATOR CIRCUITS. IN THESE CIRCUITS IT PROVIDES IMPROVED NOISE IMMUNITY. BOTH CONTROL GRIDS HAVE SHARP CUT-OFF CHARACTERISTICS.

**DIRECT INTERELECTRODE CAPACITANCES - APPROX.**

GRID #1 TO PLATE: $G_1$ TO P (MAX.)	0.05	$\mu\text{f}$
GRID #3 TO PLATE: $G_3$ TO P (MAX.)	0.36	$\mu\text{f}$
#1 INPUT: $G_1$ TO (H+K+ $G_2$ + $G_3$ &5)	5.5	$\mu\text{f}$
#3 INPUT: $G_3$ TO (H+K+ $G_1$ + $G_2$ &5)	7.0	$\mu\text{f}$
OUTPUT: P TO (H+K+ $G_1$ + $G_2$ + $G_3$ &5)	7.5	$\mu\text{f}$
COUPLING: $G_1$ TO $G_3$ (MAX.)	0.22	$\mu\text{f}$

**RATINGS ←**

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

## DESIGN CENTER VALUES

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE		
TOTAL DC AND PEAK	200	VOLTS
HEATER POSITIVE	100	VOLTS
DC	200	VOLTS
TOTAL DC AND PEAK	300	VOLTS
MAXIMUM PLATE VOLTAGE		
MAXIMUM GRID #2 & #4 VOLTAGE <sup>A</sup>		
MAXIMUM GRID #2 & #4 SUPPLY VOLTAGE	300	VOLTS
MAXIMUM PLATE DISSIPATION	1.0	WATT
MAXIMUM GRID #2 & #4 DISSIPATION:		
FOR GRID #2 & GRID #4 VOLTAGES UP TO 150 VOLTS	1.0	VOLTS
FOR GRID #2 & GRID #4 VOLTAGES BETWEEN 150 & 300V. <sup>A</sup>		
MAXIMUM CATHODE CURRENT	14	MA.
MAXIMUM GRID #1 CIRCUIT RESISTANCE	0.47	MEGOHM
MAXIMUM GRID #3 CIRCUIT RESISTANCE	2.2	MEGOHMS

<sup>A</sup>SEE SCREEN DISSIPATION RATING CHART JEDEC #J5-C4-2.

→ INDICATES A CHANGE.

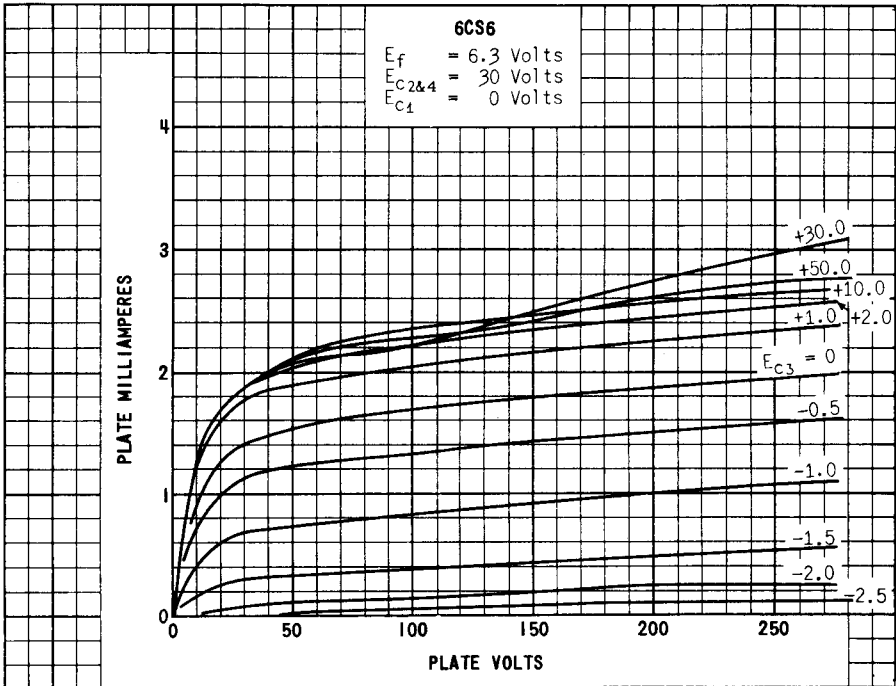
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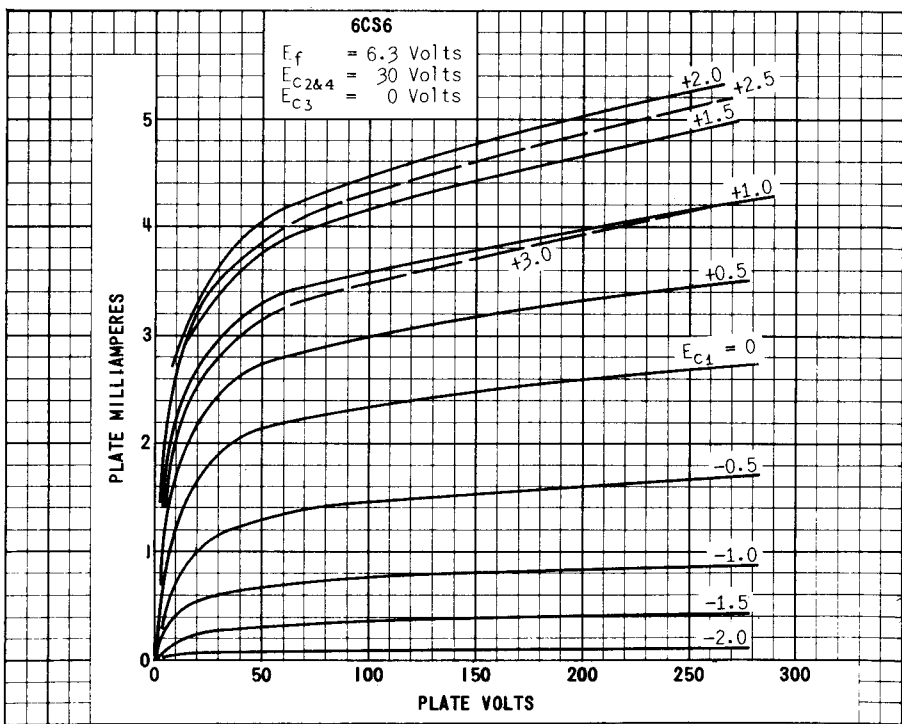
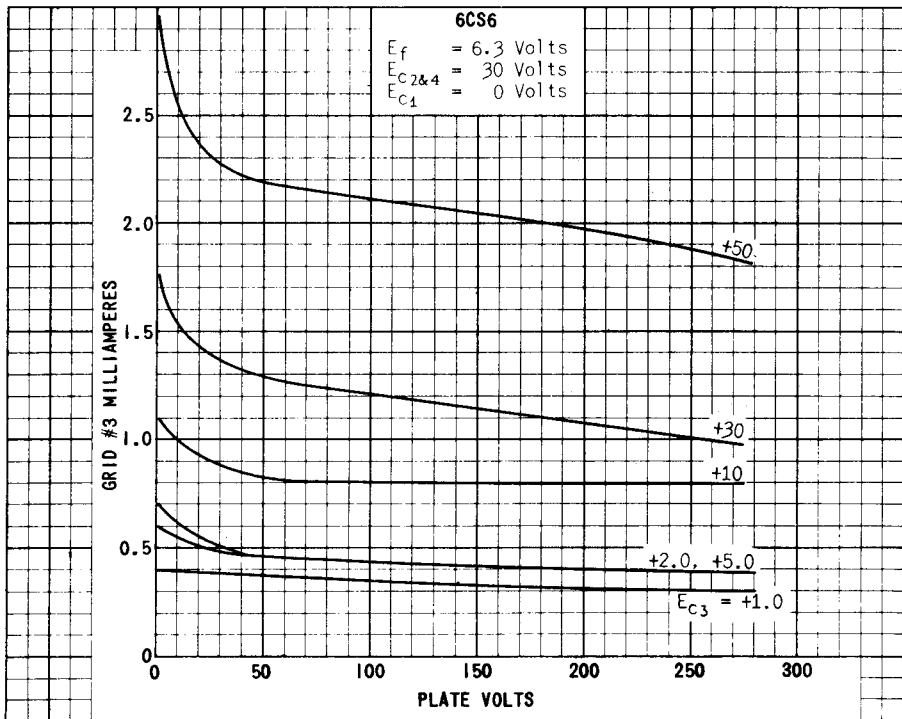
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## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS  $A_1$  AMPLIFIER

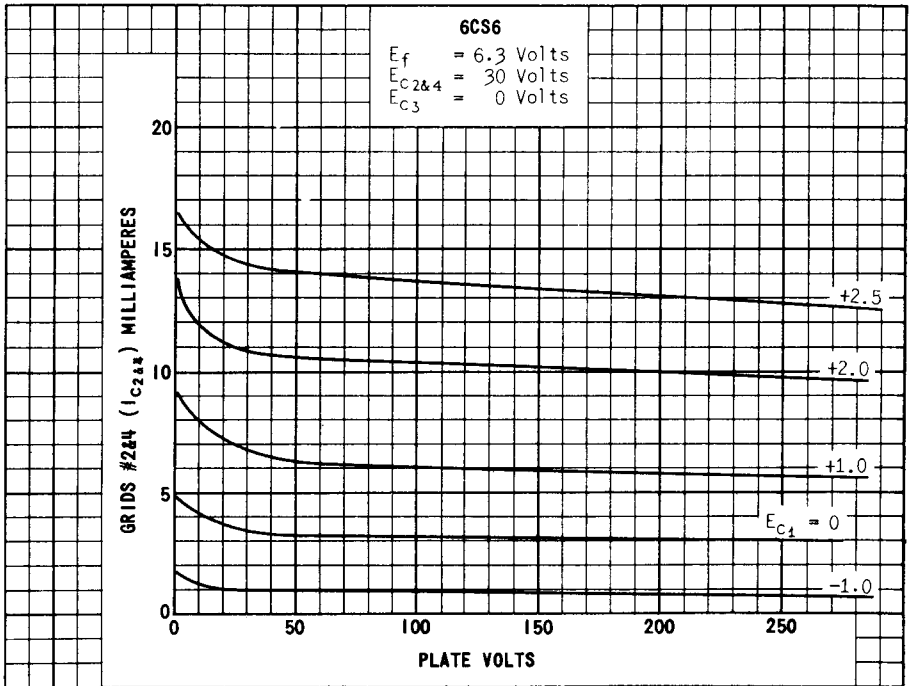
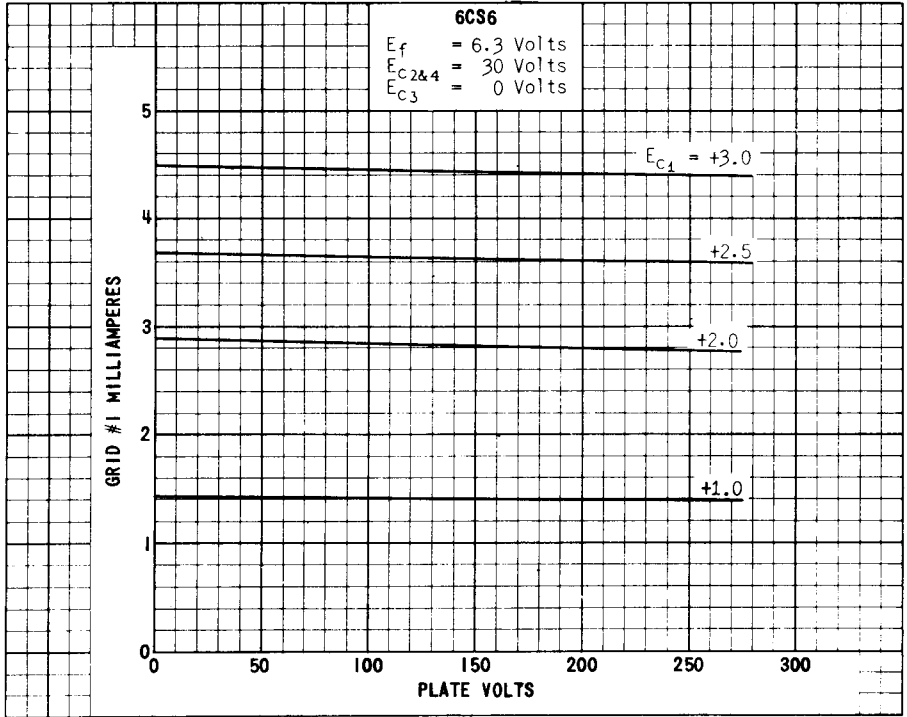
HEATER VOLTAGE	6.3	6.3	6.3	VOLTS
HEATER CURRENT	0.3	0.3	0.3	AMP.
PLATE VOLTAGE	10	100	100	VOLTS
GRID #2 & #4 VOLTAGE	30	30	30	VOLTS
GRID #1 VOLTAGE	0	0	-1	VOLTS
GRID #3 VOLTAGE	0	-1	0	VOLTS
PLATE CURRENT	2.0	0.8	1.0	MA.
GRID #2 & #4 CURRENT	4.5	5.5	1.3	MA.
TRANSCONDUCTANCE (MEASURED BETWEEN GRID #1 AND PLATE)	---	---	100	$\mu$ MHOS
TRANSCONDUCTANCE (MEASURED BETWEEN GRID #3 AND PLATE)	---	1 500	---	$\mu$ MHOS
PLATE RESISTANCE (APPROX.)	---	0.7	1.0	MEGOHM
GRID #1 VOLTAGE (APPROX.) FOR $I_b=50 \mu A$	---	---	-2.5	VOLTS
GRID #3 VOLTAGE (APPROX.) FOR $I_b=50 \mu A$	---	-2.2	---	VOLTS

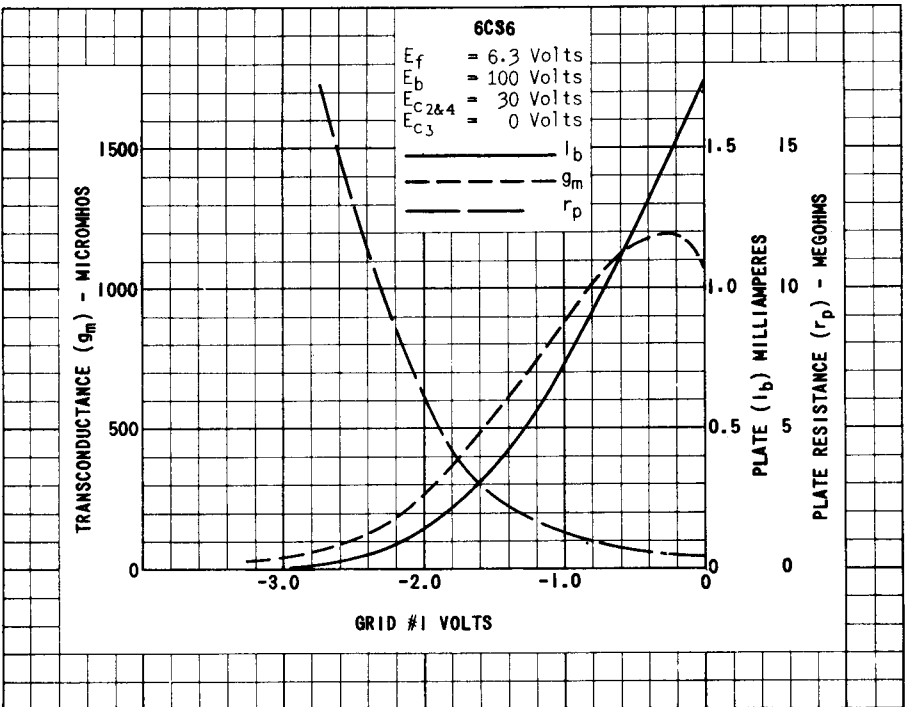
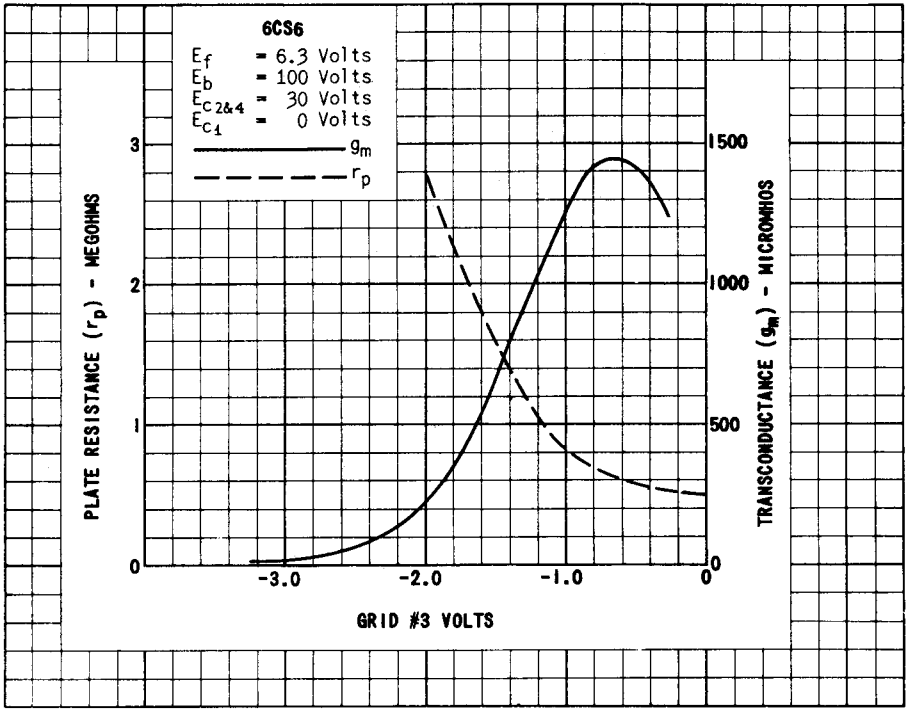




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