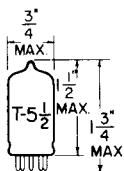


## TUNG-SOL

## PENTODE (DUAL CONTROL)

MINIATURE TYPE



GLASS BULB

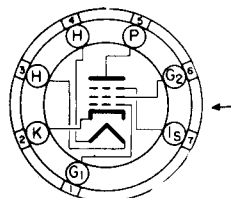
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 175 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON  
7 PIN BASE

7CM

THE 6AS6 IS A SHARP CUT-OFF VOLTAGE AMPLIFIER PENTODE USING THE MINIATURE CONSTRUCTION. IT IS CHARACTERIZED BY AN EFFICIENT HEATER, LOW CAPACITANCES AND HIGH TRANSDUCANCE. THE SUPPRESSOR GRID IS TERMINATED IN A SEPARATE BASE CONNECTION AND IS INTENDED TO BE USED AS AN ADDITIONAL CONTROL GRID IN GATING, SWITCHING, OR MIXER SERVICE.

## DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD <sup>A</sup>	WITHOUT SHIELD	
GRID TO PLATE (1): $G_1$ TO P (MAX.)	0.02	0.025	$\mu\text{f}$
GRID TO PLATE (2): $G_3$ TO P	0.7	0.7	$\mu\text{f}$
INPUT (1): $G_1$ TO (H+K+G <sub>2</sub> +G <sub>3</sub> +P+IS)	4	3.9	$\mu\text{f}$
INPUT (2): $G_3$ TO (H+K+G <sub>1</sub> +G <sub>2</sub> +P+IS)	3.4	3.3	$\mu\text{f}$
OUTPUT: P TO (H+K+G <sub>1</sub> +G <sub>2</sub> +G <sub>3</sub> +IS)	3	2.2	$\mu\text{f}$
COUPLING: $G_1$ TO $G_3$ (MAX.)	0.15	0.15	$\mu\text{f}$

<sup>A</sup>EXTERNAL SHIELD CONNECTED TO CATHODE.

## RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	180	VOLTS
MAXIMUM GRID #2 VOLTAGE	140	VOLTS
MAXIMUM POSITIVE GRID #3 VOLTAGE	27	VOLTS
MAXIMUM PLATE DISSIPATION	1.7	WATTS
MAXIMUM GRID #2 DISSIPATION	0.75	WATT

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→ INDICATES A CHANGE.

## TUNG-SOL

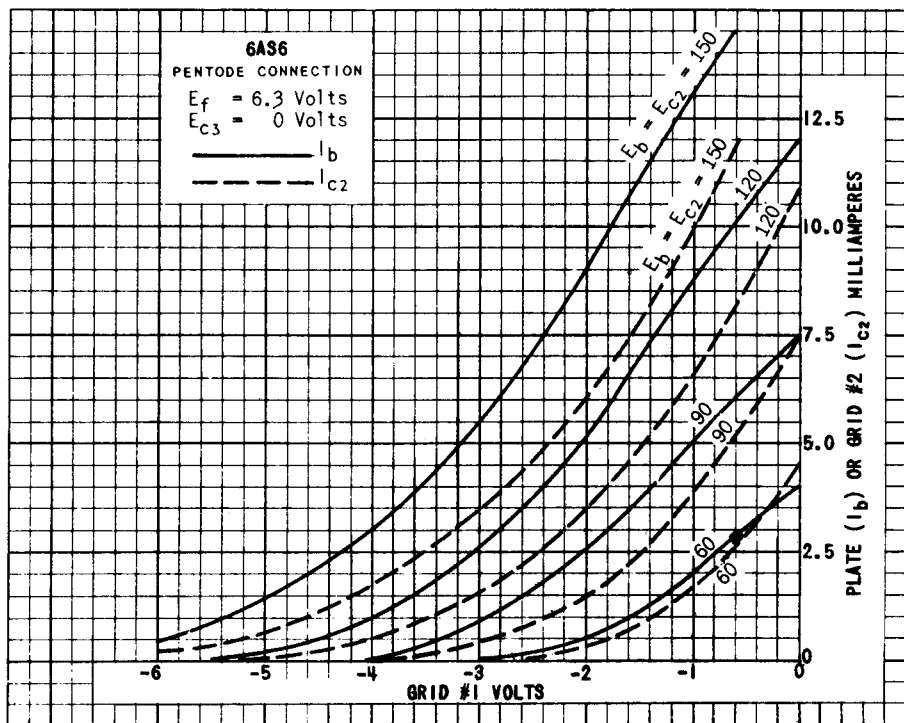
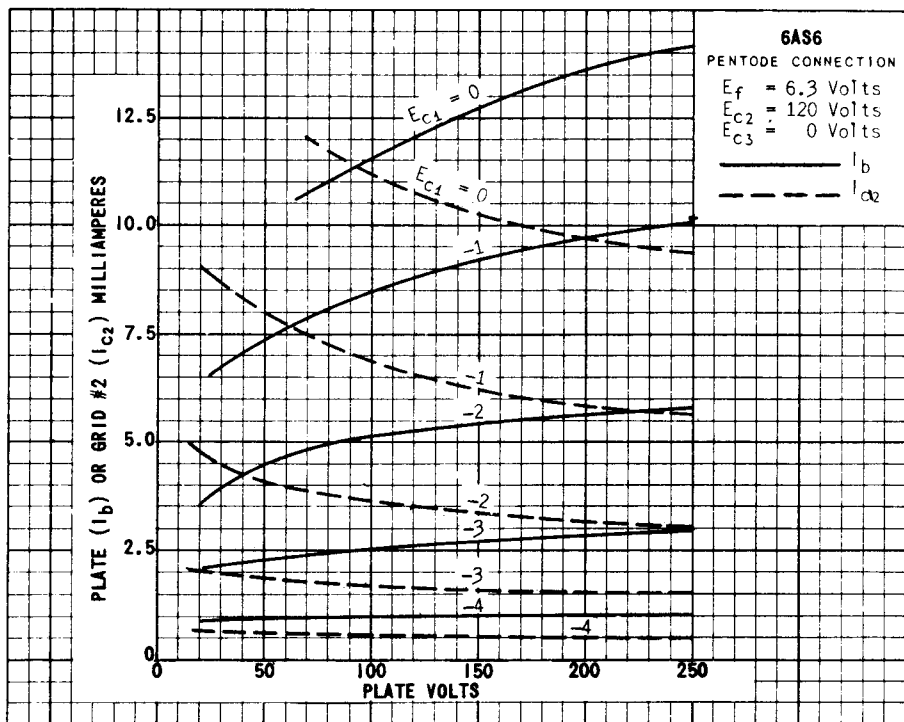
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## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	175	175	MA.
PLATE VOLTAGE	120	120	VOLTS
GRID #3 VOLTAGE	-3	0 <sup>B</sup>	VOLTS
GRID #2 VOLTAGE	120	120	VOLTS
GRID #1 VOLTAGE	-2	-2	VOLTS
PLATE RESISTANCE (APPROX.)	---	0.11	MEGOHM
GRID #1 TRANSCONDUCTANCE	1 850	3 200	μMHOS
GRID #3 TRANSCONDUCTANCE	810	470	μMHOS
PLATE CURRENT	3.6	5.2	MA.
GRID #2 CURRENT	4.8	3.5	MA.
GRID #1 VOLTAGE FOR $I_b = 10 \mu A$ . (APPROX.)	---	-7.5	VOLTS
GRID #3 VOLTAGE FOR $I_b = 10 \mu A$ . (APPROX.)	-10	---	VOLTS

<sup>B</sup> GRID #3 CONNECTED TO CATHODE.



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# 6AS6

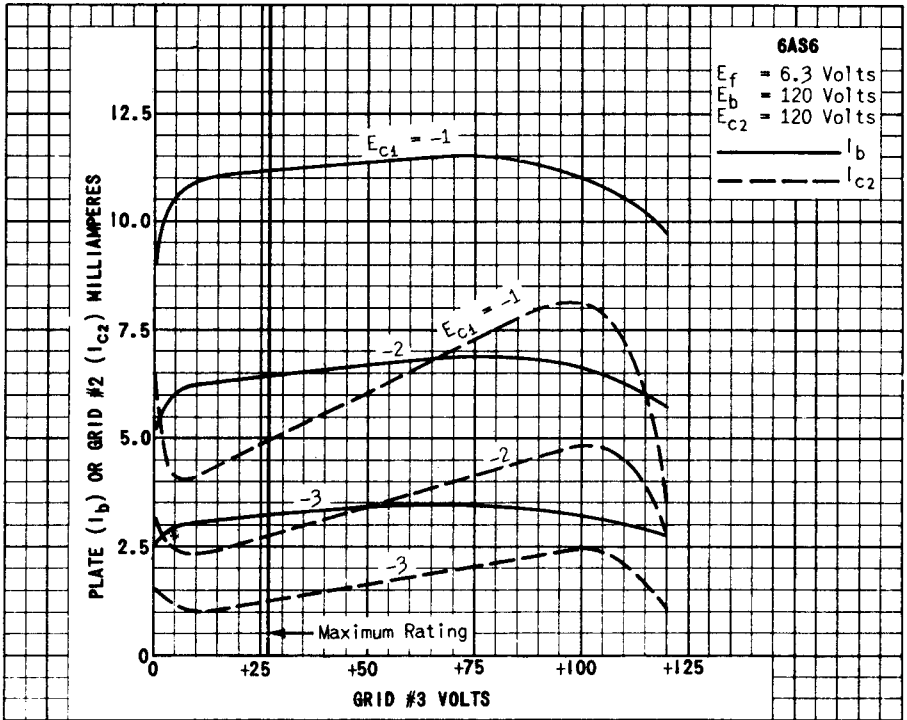
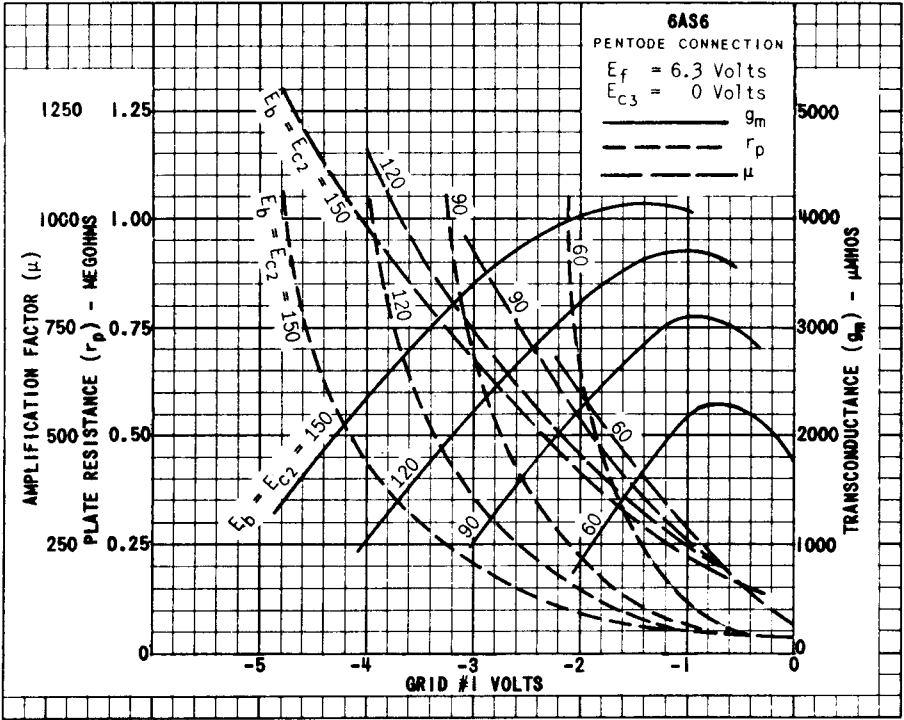
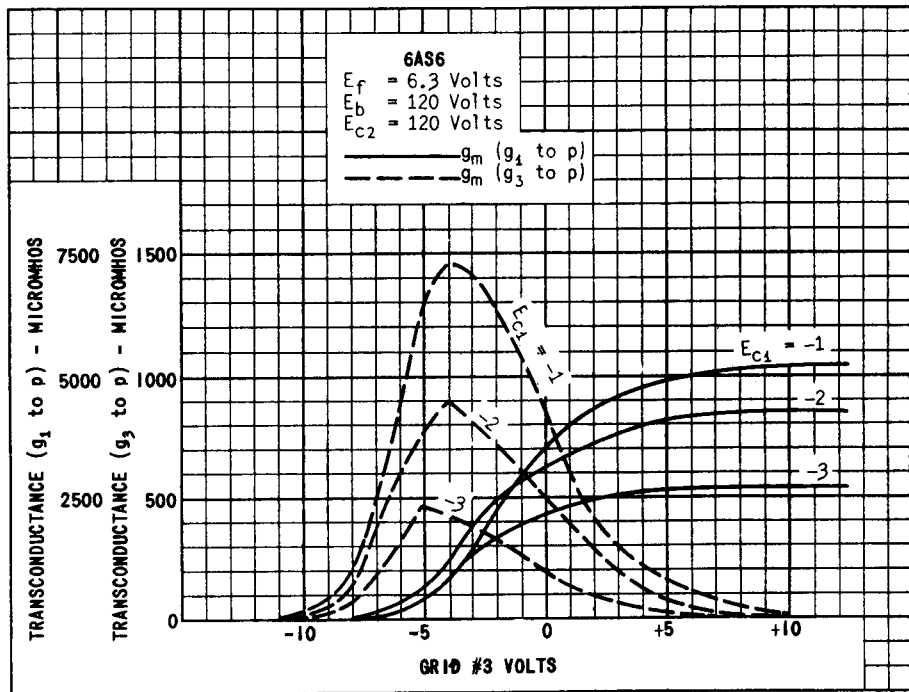
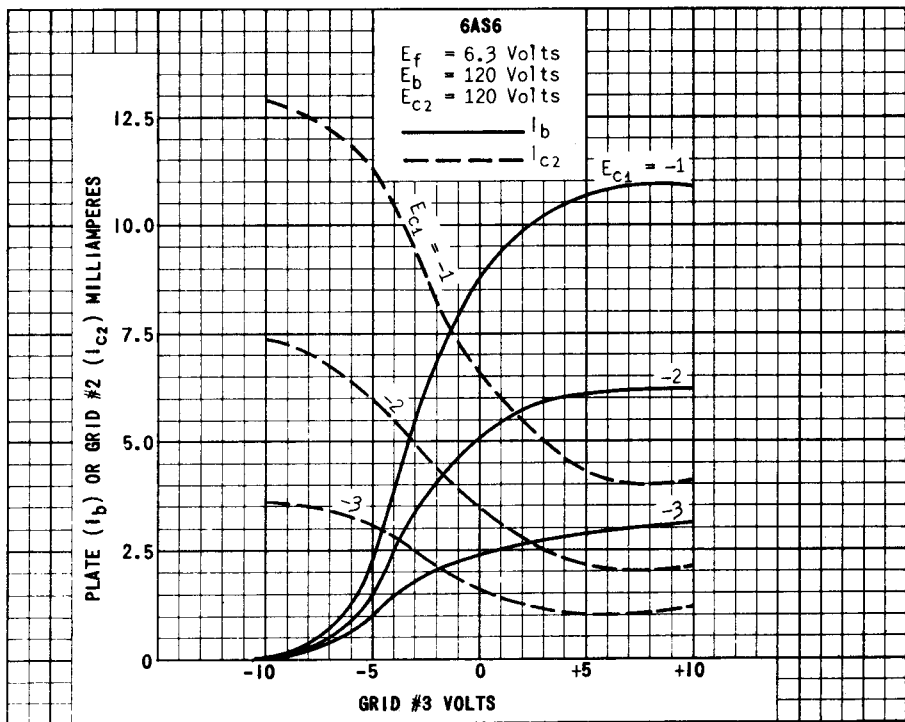


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