

## TUNG-SOL

## DIODE PENTODE

MINIATURE TYPE

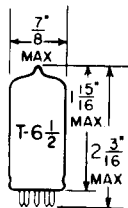
COATED UNIPOTENTIAL CATHODE

HEATER

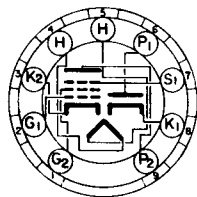
6.3 VOLTS 0.45 AMP.

AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW

MINIATURE BUTTON  
9 PIN BASE  
9DS

THE 6AS8 IS A GENERAL-PURPOSE, MULTIUNIT TUBE USING THE 9 PIN MINIATURE CONSTRUCTION. IT CONTAINS A HIGH PERVEANCE DIODE AND A SHARP-CUTOFF PENTODE IN ONE ENVELOPE. IT IS INTENDED FOR DIVERSIFIED APPLICATIONS IN TELEVISION AND RADIO RECEIVERS.

**DIRECT INTERELECTRODE CAPACITANCES — APPROX.**  
WITH NO EXTERNAL SHIELD

<b>DIODE UNIT</b>			
PLATE TO HEATER & CATHODE & INTERNAL SHIELD		3.0	pf
<b>PENTODE UNIT</b>			
GRID #1 TO PLATE (MAX.)	→	0.03	pf
INPUT		7.0	pf
OUTPUT		2.4	pf
PENTODE GRID TO DIODE PLATE (MAX.)		0.005	pf
PENTODE PLATE TO DIODE CATHODE (MAX.)		0.15	pf
PENTODE PLATE TO DIODE PLATE (MAX.)		0.10	pf

## RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

CLASS A<sub>1</sub> AMPLIFIER

	PENTODE UNIT	
HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	200 <sup>A</sup>	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM GRID #3 VOLTAGE	0	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	SEE SECOND CURVE	
MAXIMUM GRID #1 VOLTAGE:		
POSITIVE BIAS VALUE	0	VOLTS
MAXIMUM PLATE DISSIPATION	2.5	WATTS
MAXIMUM GRID #2 INPUT	0.5	WATT
MAXIMUM GRID #1 CIRCUIT RESISTANCE:		
CATHODE BIAS OPERATION	1.0	MEGOHM
FIXED BIAS OPERATION	0.25	MEGOHM

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## RATINGS - CONT'D

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

## DIODE UNIT

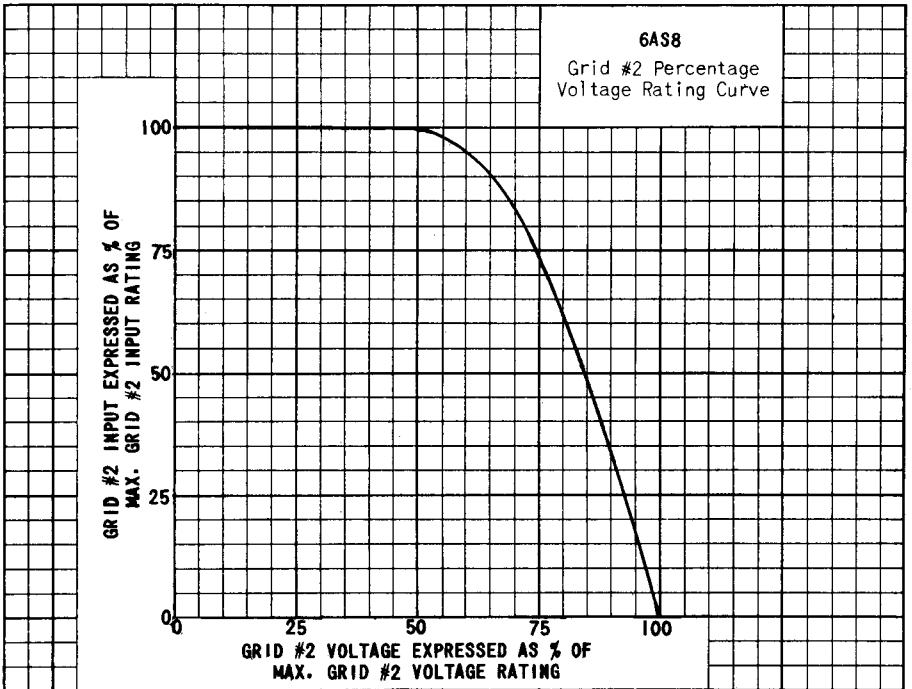
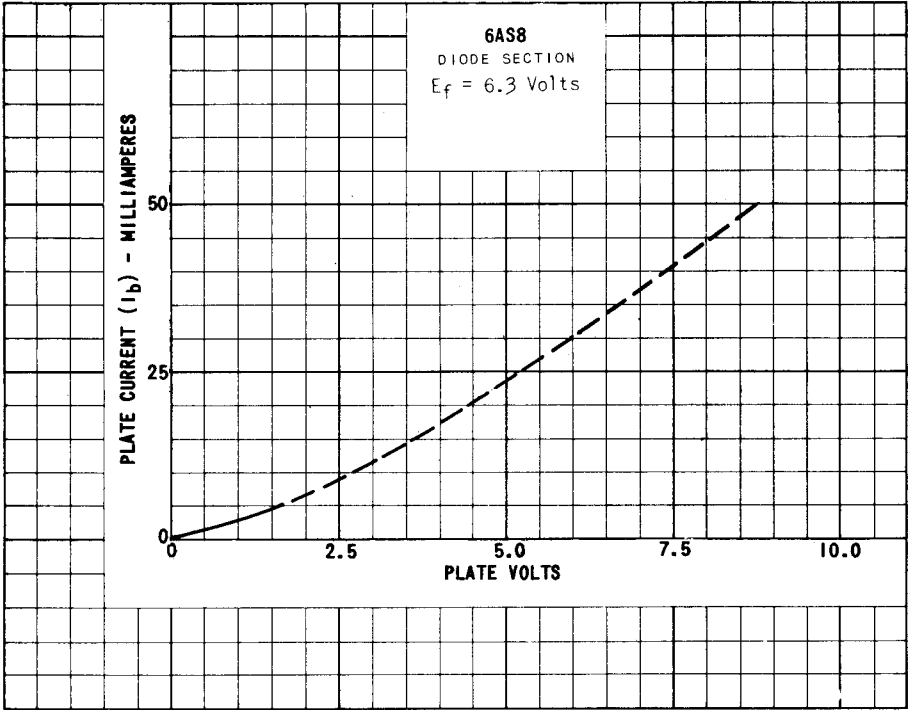
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	200 <sup>A</sup>	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE	330	VOLTS
MAXIMUM PEAK PLATE CURRENT	50	MA.
MAXIMUM DC PLATE CURRENT	5	MA.

<sup>A</sup> THE DC COMPONENT MUST NOT EXCEED 100 VOLTS.

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

PLATE SUPPLY VOLTAGE	200	VOLTS
GRID #3	CONNECTED TO CATHODE AT SOCKET	
GRID #2 SUPPLY VOLTAGE	150	VOLTS
CATHODE BIAS RESISTOR	180	OHMS
PLATE RESISTANCE (APPROX.)	300 000	OHMS
TRANSCONDUCTANCE	6 200	μMHOS
GRID #1 BIAS (APPROX.) FOR $I_b = 10 \mu\text{AMP.}$	-8	VOLTS
PLATE CURRENT	9.5	MA.
GRID #2 CURRENT	3	MA.

→ INDICATES A CHANGE



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