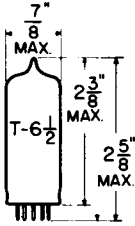


TUNG-SOL

TRIODE PENTODE
MINIATURE TYPE



GLASS BULB

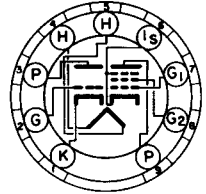
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.75 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
9 PIN BASE

90X

THE 6EB8 IS A HIGH-MU TRIODE AND SHARP CUTOFF PENTODE IN THE 9 PIN-MINIATURE CONSTRUCTION. THE TRIODE SECTION IS DESIGNED FOR USE AS A VOLTAGE AMPLIFIER WHILE THE PENTODE SECTION HAS A CONTROLLED PLATE KNEE CHARACTERISTIC AND IS DESIGNED FOR USE AS A VIDEO AMPLIFIER.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

TRIODE SECTION:

GRID TO PLATE	4.4	$\mu\mu f$
INPUT: G TO (H + K)	2.4	$\mu\mu f$
OUTPUT: P TO (H + K)	0.36	$\mu\mu f$

PENTODE SECTION:

GRID #1 TO PLATE (MAX.)	0.1	$\mu\mu f$
INPUT: G_1 TO (H+K+ G_2 + G_3 +I.S.)	11	$\mu\mu f$
OUTPUT: P TO (H+K+ G_2 + G_3 +I.S.)	4.2	$\mu\mu f$

COUPLING:

TRIODE GRID TO PENTODE PLATE (MAX.)	.018	$\mu\mu f$
PENTODE GRID #1 TO TRIODE PLATE (MAX.)	.005	$\mu\mu f$
PENTODE PLATE TO TRIODE PLATE (MAX.)	0.17	$\mu\mu f$

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM^A

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE	6.3	6.3	VOLTS
MAXIMUM PLATE VOLTAGE	330	330	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE		330	VOLTS
MAXIMUM GRID #2 VOLTAGE			
MAXIMUM POSITIVE GRID #1 VOLTAGE	0	0	VOLTS
MAXIMUM PLATE DISSIPATION	1.0	5.0	WATTS
MAXIMUM GRID #2 DISSIPATION		1.1	WATTS

CONTINUED ON FOLLOWING PAGE

DESIGNED BY S. S. A.

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

RATINGS - CONT'D.
 INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

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 GRID #1 CIRCUIT RESISTANCE			
FIXED BIAS	0.5	0.25	MEGOHM
CATHODE BIAS	1.0	1.0	MEGOHM

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.75	0.75	AMP.
PLATE VOLTAGE	250	200	VOLTS
GRID #2 VOLTAGE		125	VOLTS
GRID #1 VOLTAGE	-2		VOLTS
CATHODE BIAS RESISTOR		68	OHMS
PLATE CURRENT	2	25	MA.
GRID #2 CURRENT		7	MA.
TRANSCONDUCTANCE	2 700	12 500	μMHOS
AMPLIFICATION FACTOR	100		
PLATE RESISTANCE (APPROX.)	37 000	75 000	OHMS
GRID #1 VOLTAGE FOR $I_b = 100 \mu A$ (APPROX.)		-9	VOLTS
GRID #1 VOLTAGE FOR $I_b = 20 A$ (APPROX.)	-5		

PLATE KNEE CHARACTERISTICS - INSTANTANEOUS VALUES

$E_b = 45$ VOLTS, $E_{c2} = 125$ VOLTS AND $E_{c1} = 0$ VOLTS			
PLATE CURRENT		40	MA.
GRID #2 CURRENT		15	MA.

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.