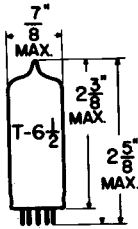


**TUNG-SOL**

TRIODE-PENTODE  
MINIATURE TYPE



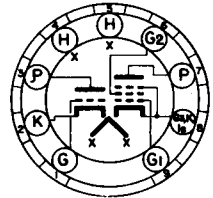
GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER

35.0 VOLTS 0.15 AMP.

ANY MOUNTING POSITION



**BOTTOM VIEW**  
MINIATURE BUTTON  
9 PIN BASE  
9ME

THE 35HB8 IS A TRIODE-PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR AUDIO APPLICATIONS IN STEREO AND MONAURAL SOUND EQUIPMENT. EXCEPT FOR HEATER RATINGS, THE 35HB8 IS IDENTICAL TO THE 18HB8.

**RATINGS**

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE <sup>A</sup>		35.0	VOLTS
MAXIMUM PLATE VOLTAGE	150	150	VOLTS
MAXIMUM GRID #2 VOLTAGE	---	135	VOLTS
MAXIMUM CATHODE CURRENT	5	50	MA.
MAXIMUM PLATE DISSIPATION	0.75	6.5	WATTS
MAXIMUM GRID #2 DISSIPATION	---	1.5	WATTS
MAXIMUM GRID CIRCUIT RESISTANCE:			
FIXED BIAS		0.1	MEGOHM
CATHODE BIAS		0.47	MEGOHM
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

**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE		35.0	VOLTS
HEATER CURRENT		0.15	AMP.
PLATE VOLTAGE	115	115	VOLTS
GRID #2 VOLTAGE	---	115	VOLTS
PEAK AF GRID #1 VOLTAGE	---	6.0	VOLTS
CATHODE RESISTOR	410	150	OHMS

CONTINUED ON FOLLOWING PAGE

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## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS  
(cont'd.)

	TRIODE SECTION	PENTODE SECTION	
HEATER VOLTAGE		35.0	VOLTS
HEATER CURRENT		0.15	AMP.
ZERO-SIGNAL PLATE CURRENT	2.5	33	MA.
MAX.-SIGNAL PLATE CURRENT	---	32	MA.
ZERO-SIGNAL GRID #2 CURRENT	---	7.5	MA.
MAX.-SIGNAL GRID #2 CURRENT	---	10	MA.
TRANSCONDUCTANCE	3900	6250	μMHOS
AMPLIFICATION FACTOR	74	---	
LOAD RESISTANCE	---	3500	OHMS
MAX.-SIGNAL POWER OUTPUT	---	1.0	WATT
TOTAL HARMONIC DISTORTION (APPROX.)	---	8	PERCENT

A THE HEATER SHOULD BE CONNECTED WITH PIN #4 CLOSEST TO THE GROUND END OF THE HEATER STRING.

