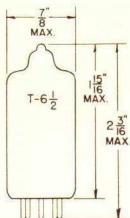


TUNG-SOL

TRIODE PENTODE

MINIATURE TYPE



GLASS BULB

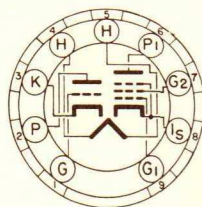
COATED UNIPOTENTIAL CATHODE

HEATER

4.7 VOLTS 0.6 AMP.

AC OR DC

ANY MOUNTING POSITION


 BOTTOM VIEW
 MINIATURE BUTTON
 9 PIN BASE
 9FA

THE 5BR8 COMPRISES TWO ELECTRICALLY INDEPENDENT SECTIONS -- A TRIODE AND A PENTODE -- IN THE 9 PIN MINIATURE CONSTRUCTION. BOTH UNITS ARE CAPABLE OF GOOD PERFORMANCE AT THE HIGHER FREQUENCIES. THE TUBE MAY BE USED AS A LOCAL OSCILLATOR PENTODE MIXER FOR FM OR TELEVISION RECEIVERS OR IN THE MANY COMBINED FUNCTIONS IN SUCH RECEIVERS. THE 5BR8 IS INTENDED FOR USE IN 600 MA. SERIES HEATER RECEIVERS. THERMAL CHARACTERISTICS OF THE HEATER ARE CONTROLLED SUCH THAT HEATER VOLTAGE SURGES DURING THE WARM-UP CYCLE ARE MINIMIZED PROVIDED IT IS USED WITH OTHER TYPES WHICH ARE SIMILARLY CONTROLLED. WITH THE EXCEPTION OF THE HEATER VOLTAGE ITS CHARACTERISTICS ARE IDENTICAL TO THE 6BR8.

DIRECT INTERELECTRODE CAPACITANCES

PENTODE UNIT:	WITH SHIELD #315	WITHOUT SHIELD	
GRID #1 TO PLATE	0.008	0.015 MAX.	μlf
INPUT	5.0	5.0	μlf
OUTPUT	3.5	2.6	μlf
TRIODE UNIT:			
GRID TO PLATE	1.8	1.8	μlf
GRID TO CATHODE	2.5	2.5	μlf
PLATE TO CATHODE	1.0	0.4	μlf
CATHODE TO HEATER (EITHER SECTION) APPROX.	3.0	3.0	μlf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

	TRIODE UNIT	PENTODE UNIT	
HEATER VOLTAGE	4.7		VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE; HEATER NEGATIVE WITH RESPECT TO CATHODE	250	250	VOLTS
TOTAL DC AND PEAK	100	100	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE DC	200	200	VOLTS
TOTAL DC AND PEAK	300	300	VOLTS
MAXIMUM PLATE VOLTAGE	300	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	2.7	2.8	WATTS
MAXIMUM PLATE DISSIPATION		0.5	WATTS
MAXIMUM GRID #2 DISSIPATION	---	0	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	---	VOLTS
MAXIMUM POSITIVE DC GRID VOLTAGE	11.0		SECONDS
HEATER WARM-UP TIME (APPROX.)*			

* HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	TRIODE	PENTODE	
HEATER VOLTAGE		4.7	VOLTS
HEATER CURRENT		0.6	AMP.
PLATE VOLTAGE	150	250	VOLTS
GRID #2 VOLTAGE	---	110	VOLTS
CATHODE RESISTOR	56	68	OHMS
TRANSCONDUCTANCE	8 500	5 200	μ MHOS
GRID #1 VOLTAGE (APPROX.) FOR $I_b = 10 \mu A$.	-12	-10	VOLTS
PLATE CURRENT	18	10	MA.
GRID #2 CURRENT	---	3.5	MA.
PLATE RESISTANCE (APPROX.)	.005	0.40	MEGOHM
AMPLIFICATION FACTOR	40	---	