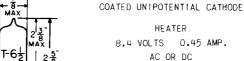
GLASS BULB

--- TUMB.20L -

TRIODE PENTODE

MINIATURE TYPE



2 출

AC OR DC ANY MOUNTING POSITION



BOTTOM VIEW MINIATURE BUTTON 9 PIN BASE 90X

THE SBASA IS A MINIATURE MEDIUM-MU TRIODE AND SHARP CUTOFF PENTODE WHICH HAS A CONTROLLED PLATE KNEE CHARACTERISTIC. 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.

DIRECT INTERELECTRODE	CAPACITANCES WITH SHIELDA	WITHOUT	
TRIODE	SHIELD"	SHIELD	
GRID TO PLATE: (G TO P)	2.2	2.2	ши f
INPUT: G TO (H + K)	2.7	2.5	ии f
OUTPUT: P TO (H + K)	1.9	0.4	иµ f
PENTODE			
GRID TO PLATE: (G4 TO P)	0.03	0.04	ии f
INPUT: G TO (H+K+G2+G3+1.S.)	10.0	10.0	ии f
OUTPUT: P TO (H+K+G2+G3+1.S.)	4.5	3.6	ши f
COUPLING			
PENTODE GRID #1 TO TRIODE PLATE	0.003	0.006	ии f
PENTODE PLATE TO TRIODE GRID	0.006	0.016	ии f
PENTODE PLATE TO TRIODE PLATE	0.050	0.200	ии f

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER-SYSTEM

	TRIODE	PENTODE	
HEATER VOLTAGE	8	. 4	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC AND PEAK		00	VOLTS
DC	1	00	VOL TS
HEATER NEGATIVE WITH RESPECT TO CATHODE	_	• •	
DC AND PEAK	2	00	VOLTS
MAXIMUM PLATE VOLTAGE	300	300	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE		300	VOLTS
MAXIMUM GRID #2 VOLTAGE	SEE RATI	NG CHART	
MAXIMUM PLATE DISSIPATION	2.0	3.25	WATTS
MAXIMUM GRID #2 DISSIPATION		1.0	WATT
MAXIMUM NEGATIVE GRID #1 VOLTAGE		50	VOLTS
MAXIMUM POSITIVE GRID #1 VOLTAGE		0	VOL TS
MAXIMUM GRID #1 CIRCUIT RESISTANCE:			
FIXED BIAS	0.5	0.25	MEGOHM
SELF BIAS	1.0	1.0	MEGOHM
HEATER WARM-UP TIME (APPROX.) B	11	•0	SECONDS

A SHIELD #315 TIED TO CATHODE BASE PIN OF SECTION UNDER TEST.

CONTINUED ON FOLLOWING PAGE

BHEATER 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 MOMINAL HEATER OPERATING RESISTANCE.

- TUNG-SOL -

CONTINUED PROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

-	TRIODE	PEN'	TODE	
HEATER VOLTAGE		8.4		VOLTS
HEATER CURRENT		0.45		AMP.
PLATE VOLTAGE	200		200	VOLTS
GRID #2 VOLTAGE			150	VOLTS
GRID #1 VOLTAGE	-8		0	VOLTS
CATHODE BIAS RESISTOR			180	OHMS
AMPLIFICATION FACTOR	18			
PLATE RESISTANCE (APPROX.)	6 700	400	000	OHMS
TRANSCONDUCTANCE	2 700	9	000	μ MHOS
PLATE CURRENT	8.0		13	MA.
GRID #2 CURRENT			3.5	MA.
GRID #1 VOLTAGE FOR Ib = 10 4A. (APPROX.)	-16		-10	VOLTS
ZERO BIAS: WITH Eb =65V., AND Ec2 =150 V.	, (IMSTANI	TANEOUS V		
PLATE CURRENT			42	MA.
GRID #2 CURRENT		1	2.5	MA.

SIMILAR TYPE REFERENCE: 6BA8A

