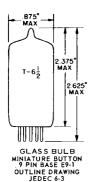
### TUNG-SOL -



## TRIODE PENTODE

MINIATURE TYPE

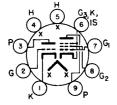
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 600 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW BASING DIAGRAM JEDEC 9DX

THE 6BABA 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 **TUORT IM** WITH SHIELDA TRIODE SHIFID GRID TO PLATE: (G TO P) 2.2 2.2 рf INPUT: G TO (H + K) 2.7 2.5 рf OUTPUT: P TO (H + K) 1.9 0.4 рf PENTODE → 0.06 → 0.05 GRID TO PLATE: (G1 TO P) рf 10.0 10.0 рf INPUT: G TO  $(H+K+\bar{G}_2+G_3+!.S.)$ OUTPUT: P TO  $(H+K+\bar{G}_2+G_3+1.S.)$ 4.5 3.6 рf COUPLING PENTODE GRID #1 TO TRIODE PLATE 0.003 0.006 рf PENTODE PLATE TO TRIODE GRID 0.006 0.016 рf PENTODE PLATE TO TRIODE PLATE 0.050 0.200 рf

# RATINGS INTERPRETED ACCORDING TO DESIGN CENTER-SYSTEM

	TRIODE	PENTODE	
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC AND PEAK	20	00	VOLTS
DC	$\bar{1}$	DŌ .	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE			
DC AND PEAK	20	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	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE:			
FIXED BIAS	0.5	0.25	MEGOHM
SELF BIAS	1.0	1.0	ME GOHM
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 NOMINAL HEATER OPERATING RESISTANCE.

### TUNG-SOL

CONTINUED FROM PRECEDING PAGE

#### TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

	TRIODE	PENTODE	
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	онмѕ
TRANSCONDUCTANCE	2 700	9 000	<i>u</i> MH0s
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 $\rm E_b$ =65V., AND $\rm E_{c2}$ =150 V., PLATE CURRENT GRID #2 CURRENT	(INSTANTAM	NEOUS VALUES) 42 12.5	MA. MA.

