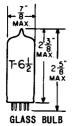
### - TUMB-SOL -

## TRIODE PENTODE

MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE



HEATER
6.3 VOLTS 0.6 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
9 PIN BASE
9DX

THE 6BA8 IS A MEDIUM-MU TRIODE AND SHARP CUT-OFF PENTODE USING THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE IN 600 MA. SERIES HEATER OPERATED TELEVISION 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.

DIRECT INTERFLECTRODE CAPACITANCES

TRIODE	TERELECTRODE CAPACITANCES WITH SHIELD <sup>A</sup>	WITHOUT SHIELD	
GRID TO PLATE	2.2	2.2	ии f
INPUT	2.7	2.5	ии f
OUTPUT	<b>→</b> 1.9	→ 0.4	иµ f
PENTODE			
GRID TO PLATE (MAX.)	•030	0.036	ии f
INPUT	<b>→</b> 9.5	→ 9.5	ии f
OUTPUT	3 <b>.</b> 6	2.8	uu f
COUPLING			
PENTODE GRID #1 TO TRIODE PL	ATE (MAX+) +005	→ .010	ии f
PENTODE PLATE TO TRIODE GRID	(MAX.) .012	.022	и <b>и</b> f
PENTODE PLATE TO TRIODE PLAT	E (MAX+) -050	0.20	ии f

# RATINGS INTERPRETED ACCORDING TO DESIGN CENTER-SYSTEM

	TRIODE	PENTODE	
HEATER VOLTAGE	6	.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC AND PEAK		00	VOL TS
DC	10	00	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE			
DC AND PEAK	20	00	VOLTS
MAXIMUM PLATE VOLTAGE	300	300	VOL TS
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 #4 VOLTAGE		50	VOLTS
MAXIMUM POSITIVE GRID #4 VOLTAGE		0	VOL TS
MAXIMUM GRID #4 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

Ashreld #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.

<sup>-</sup> INDICATES A CHANGE

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CONTINUED FROM PRECEDING PAGE

### TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

	TRIODE	PENTODE	
HEATER VOLTAGE		6.3	VOL TS
HEATER CURRENT		0.6	AMP.
PLATE VOLTAGE	200	200	VOLTS
GRID #2 VOLTAGE		150	VOL TS
GRID #1 VOLTAGE	-8	0	VOLTS
CATHODE BIAS RESISTOR		180	<b>OHMS</b>
AMPLIFICATION FACTOR	18		
PLATE RESISTANCE (APPROX.)	6 700	400 000	OHM(S
TRANSCONDUCTANCE	2 700	9 000	<b>µM</b> H0\$
PLATE CURRENT	8.0	13	MA.
GRID #2 CURRENT		3.5	MA.
GRID #1 VOLTAGE FOR Ib = 10 MA. (APPROX.)	-16	-10	VOL TS

