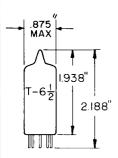
TUMB-SOL .



TRIODE-PENTODE

MINIATURE TYPE

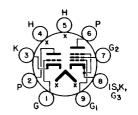
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.45 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 9FA

WITHAUT

MITHA

GLASS BULB 9 PIN BASE E9-1 OUTLINE DRAWING JEDEC 6-2

THE 6FV8 IS A TRIODE-PENTODE USING THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR SERVICE IN TELEVISION RECEIVERS WITH THE TRIODE SERVING AS A VERTICAL DEFLECTION OSCILLATOR, AND THE PENTODE SERVING AS A GENERAL PURPOSE OR IF AMPLIFIER. DESIGN OF THE TUBE IS SUCH THAT HIGH VALUES OF INTERELEMENT LEAKAGE RESISTANCE ARE MAINTAINED THROUGHOUT LIFE. EXCEPT FOR HEATER RATINGS, THE 6FV8 IS IDENTICAL TO THE 5FV8.

DIRECT INTERELECTRODE CAPACITANCES

	SHIELD	SHIELD	
TRIODE SECTION:			
GRID TO PLATE	1.8	1.8	$\mu\mu$ f
INPUT: G TO (H+TK+1.S.)	2.8	2.8	$\mu\mu$ f
OUTPUT: P TO (H+TK+I.S.)	2.0	1.5	$\mu\mu$ f
PENTODE SECTION:			
GRID #1 TO PLATE (MAX.)	.010	.020	$\mu\mu$ f
INPUT: G1 TO (H+PK+G2+G3+1.S.)	5.0	5.0	$\mu\mu$ f
OUTPUT: P TO (H+PK+G2+G3+1.S.)	3.0	2.0	$\mu\mu$ f
PENTODE PLATE TO TRIODE PLATE ((MAX.)	0.03	0.15	µџ f

RATINGS INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

VER-DEF CLASS A OSC. AMPLIFIER	
MAXIMUM PLATE VOLTAGE 330 330 VOL	ΓS
MAXIMUM GRID #2 SUPPLY VOLTAGE 330 VOLT	ГS
MAXIMUM GRID #2 VOLTAGE SEE RATING CHART	
MAXIMUM POSITIVE GRID #1 VOLTAGE 0 VOLT	۲s
MAXIMUM PEAK NEGATIVE PULSE GRID VOLTAGE 250 VOLT	ſς
MAXIMUM AVERAGE CATHODE CURRENT 20 MA.	
MAXIMUM PEAK CATHODE CURRENT 70 MA.	
MAXIMUM PLATE DISSIPATION 2.0 2.3 WAT	۲s
MAXIMUM GRID #2 DISSIPATION 0.55 WAT	Γ
MAXIMUM HEATER-CATHODE VOLTAGE:	
HEATER NEGATIVE WITH RESPECT TO CATHODE	
TOTAL DC AND PEAK 200 200 VOL	í S
HEATER POSITIVE WITH RESPECT TO CATHODE DC 100 100 VOLT	
	-
TOTAL DC AND PEAK 200 200 VOLT MAXIMUM GRID #4 CIRCUIT RESISTANCE	. S
FIXED BIAS _ 0.25 MEGG	мнс
SELF BIAS 3.0° 1.0 MEGG	
HEATER WARM-UP TIME (APPROX.)* 11.0 SECO	

— TUNB-80L —

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS TRIODE PENTODE

SECTION	SECTION	
125	125	VOLTS
	125	VOLTS
-1.0	-1.0	VOLTS
8 000	6 500	⊬MH OS
14.0	12.0	MA.
	4.0	MA.
5 000	200,000	OHMS
40		
-9	-9	VOLTS
	-1.0 8 000 14.0 5 000 40	125 125 -1.0 -1.0 8 000 6 500 14.0 12.0 4.0 5 000 200,000

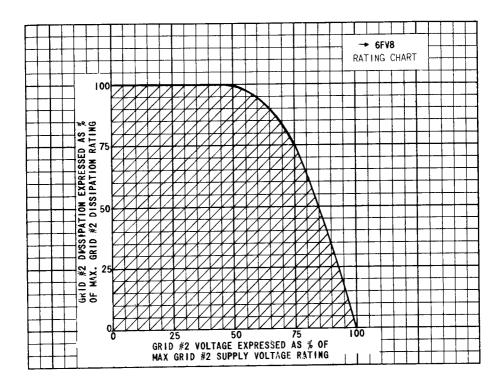
ASHIELD #315 TIED TO PIN #4.

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THO DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT COMPONENT VARIATION,

BFOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF DNE SCANNING CYCLE.

C IN STAGES OPERATING WITH GRID LEAK BIAS, AN ADEQUATE CATHODE BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

^{*}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 MEATER VOLTAGE TO A CIRCUIT CONSISTING
OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL MEATER OPERATING
RESISTANCE.



→INDIGATES A CHANGE.