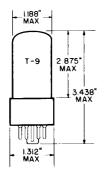
TUNG-SOL -

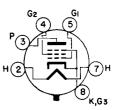
PENTODE



COATED UNIPOTENTIAL CATHODE.

HEATER
7.2 VOLTS 0.6±.04 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 7AC

GLASS BULB
INTERMEDIATE-SHELL
6 PIN OCTAL
86-81 AND 86-84
OUTLINE DRAWING
JEDEC 9-15

THE 7EY6 IS A BEAM POWER PENTODE DESIGNED FOR USE AS THE VERTICAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS EMPLOYING 110° DEFLECTION PICTURE TUBES. 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 - APPROX.

WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE	0.7	рf
INPUT	8.5	рf
OUTPUT	7.0	r f

RATINGS INTERPRETED ACCORDING TO DESIGN-MAXIMUM SYSTEM VERTICAL-DEFLECTION AMPLIFIER SERVICE^A

500 VOLTS 250 VOLTS 300 VOLTS	
300 volts	
11 WATTS	
.75 WATTS	
60 MA.	
180 MA.	
100 VOLTS	
200 volts	
200 VOLTS	
2.2 MEGOHMS	
1.0 MEGOHMS	
200 °c	
1.0 SECONDS	
	11 WATTS .75 WATTS 60 MA. 180 MA. 100 VOLTS 200 VOLTS 220 VOLTS 2.2 MEGOHMS 1.0 MEGOHMS 200 °C

TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

PLATE VOLTAGE	50	250	VOLTS
SCREEN VOLTAGE	250	250	VOLTS
GRID #1 VOLTAGE	Oc	-17.5	VOLTS
PLATE RESISTANCE (APPROX.)		60 000	OHMS
TRANSCONDUCTANCE		4 400	µMH0S
PLATE CURRENT	153	44	MA.
SCREEN CURRENT	21	3.0	MA.
GRID #1 VOLTAGE (APPROX.)		3.0	
$I_b = 100 \mu AMPS.$		-48	VOLTS

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 ORDNITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABLLITY OF THE DEVICE, TAKING REPONSIBILITY FOR THE EFFECTS OF CRANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT THE 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 CONFORM VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

AFOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEOERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 154 OF ONE SCANNING CYCLE.

 $^{^{\}rm B}$ 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.

 $^{^{} extsf{C}}_{ extsf{APPL1ED}}$ for short interval (two seconds maximum) so as not to damage tube.

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

