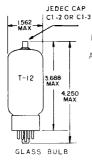
# TUMB-SOL -

#### BEAM PENTODE



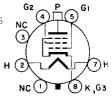
SKIRTED MINIATURE

COATED UNIPOTENTIAL CATHODE

FOR HCRIZONTAL DEFLECTION AMPLIFIER APPLICATIONS IN TELEVISION RECEIVERS

ANY MOUNTING POSITION

PIN #1 IS OMITTED WHEN EITHER A B6-122 OR B6-148 BASE IS USED



BASING DIAGRAM JEDEC 6AM

THE 6006B IS A BEAM-POWER PENTODE PRIMARILY DESIGNED FOR USE AS THE HORIZONTAL-DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. ITS HIGH ZEROBIAS PLATE CURRENT AT LOW PLATE AND SCREEN VOLTAGES MAKES THE TUBE WELL SUITED FOR USE IN RECEIVERS THAT OPERATE AT LOW PLATE-SUPPLY VOLTAGES. IT DIFFERS FROM THE 6006A IN HAVING HIGHER RATINGS AND HIGHER ZEROBIAS PLATE CURRENT.

# DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITHOUT EXTERNAL SHIELD

GRID TO PLATE (G TO P)	0.5	рf
INPUT: (G1 TO H+K, BP + G2)	15.0	рf
OUTPUT: (P TO H+K, BP + B2)	7.0	рf

## HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE ETA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	1200	MA.
HEATER SUPPLY LIMITS: VOLTAGE OPERATION		6.3±0.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		200	VOLTS

-→INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

### TUNG-SOL ---

#### CONTINUED FROM PRECEDING PAGE

## MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

## HORIZONTAL DEFLECTION AMPLIFIERA

PLATE SUPPLY VOLTAGE, DC (BOOST+DC POWER SUPPLY)	770	VOLTS
PLATE VOLTAGE, PEAK PULSE, POSITIVE	6500	VOLTS
PLATE VOLTAGE, PEAK PULSE, NEGATIVE	1500	VOLTS
PLATE DISSIPATION, B	18	WATTS
GRID #1 VOLTAGE, PEAK PULSE, NEGATIVE	330	VOLTS
GRID #2 VOLTAGE, DC	220	VOLTS
GRID #2 DISSIPATION	3.6	WATTS
CATHODE CURRENT, AVERAGE	175	MA.
CATHODE CURRENT, PEAK	610	MA.
GRID <b>#1</b> CIRCUIT RESISTANCE, <sup>B</sup>	1.0	MEGOHM
BULB TEMPERATURE, (AT HOTTEST POINT)	220	°c.

#### AVERAGE CHARACTERISTICS

PENTODE OPERATION: Eb = 250V, Ec2 = 150V, Ec1=-22.5V.		
PLATE CURRENT	65	MA.
GRID #2 CURRENT	1.8	MA.
TRANSCONDUCTANCE 7	300	µмноs
PLATE RESISTANCE, APPROX. 18,	000	OHMS
ZERO BIAS: Eb = 60V, Ec2 = 150V. (INSTANTANEOUS VALUES)		
PLATE CURRENT	345	MA.
GRID #2 CURRENT	27	MA.
CUTOFF: Ib = 1 MA, Eb = 250 V, Ec2 = 150 V.		
GRID #1 VOLTAGE, APPROX.	-42	VOLTS
CUTOFF: Ib = $1 \text{ Ma}$ , Eb = $5000 \text{ V}$ , Ec2 = $150 \text{ V}$ .		
	100	VOLTS
TRIODE MU: Eb = Ec2 = 150 V, Ec1 =-22.5 V.	4.4	

<sup>--</sup> INDICATES A CHANGE.

A FOR 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 ONE SCANNING CYCLE.

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.

