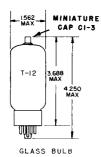
TUNG-SOL -

BEAM PENTODE



FOR HORIZONTAL-DEFLECTION-AMPLIFIER CIRCUITS IN TELEVISION RECEIVERS H(2

ANY MOUNTING POSITION

PIN #3 IS OMITTED WHEN B5-190 BASE IS USED

BOTTOM VIEW BASING DIAGRAM JEDEC 6AM

SHORT MEDIUM SHELL 5 OR 6 PIN OCTAL WITH EXTERNAL BARRIERS STYLE B: 86-122 OR 85-190

THE 6GW6 IS A BEAM POWER PENTODE EMPLOYING A T-12 ENVELOPE. IT IS DE-SIGNED ESPECIALLY FOR USE IN HORIZONTAL-DEFLECTION-AMPLIFIER CIRCUITS OF TELEVISION RECEIVERS WHICH OPERATE WITH LOW PLATE SUPPLY VOLTAGES.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE	0.5	рf
GRID #1 TO CATHODE, GRID #3, GRID #2 & HEATER	17	рf
PLATE TO CATHODE, GRID #3, GRID #2 & HEATER	7	рf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	1200	MA.
HEATER SUPPLY LIMITS: VOLTAGE OPERATION		6.3±0.6	VOLTS
MAXIMUM PEAK HEATER CATHODE V	OLTAGE:		
HEATER NEGATIVE WITH RESPEC	T TO CATHODE	200	VOLTS
HEATER POSITIVE WITH RESPEC	T TO CATHODE	200 ^A	VOLTS

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

HORIZONTAL-DEFLECTION AMPLIFIER

770	VOLTS
6500	VOLTS
1500	VOLTS
220	VOLTS
~55	VOLTS
	1500 220

CONTINUED ON FOLLOWING PAGE

- TUNG-SOL -

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MAXIMUM RATINGS-CONT'D.

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PEAK NEGATIVE-PULSE GRID #1 VOLTAGE	330	VOLTS
CATHODE CURRENT:		
PEAK	550	MA.
AVERAGE	175	MA.
PLATE DISSIPATION ^C	17.5	WATTS
GRID #2 INPUT	3.5	WATTS
BULB TEMPERATURE (AT HOTTEST POINT ON BULB SURFACE)	240	°c
MAXIMUM CIRCUIT VALUES:		
C C		

GRID #1 CIRCUIT RESISTANCE C

1.0 ме донм

CHARACTERISTICS CLASS A1 AMPLIFIER

PLATE VOLTAGE	60	250	VOLTS
GRID #2 VOLTAGE	150	150	VOLTS
GRID #1 VOLTAGE	0	-22.5	VOLTS
MU-FACTOR, GRID #2 TO GRID #1 WITH PLATE			
CONNECTED TO GRID #2, PLATE VOLTS $^\pm$			
GRID $#2$ VOLTS $=150$, AND GRID $#1$ VOLTS			
=-22.5		4.4	
PLATE RESISTANCE (APPROX.)		15000	OHMS
TRANSCONDUCTANCE		7100	μ MHOS
PLATE CURRENT	→ 390 ^D	70	MA.
GRID #2 CURRENT	32 ^D	2.1	MA.
GRID #1 VOLTAGE (APPROX.) FOR			
PLATE CURRENT OF 1 MA.		42	VOLTS

→ INDICATES A CHANGE.

 $^{^{\}mathrm{A}}_{\mathrm{THE}}$ DC component must not exceed 100 volts.

B 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 POLSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE. 15% OF ONE HORIZONTAL SCANNING CYCLE IS 10 MICROSECONOS.

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

D
THESE VALUES CAN BE MEASURED BY A METHOD INVOLVING A RECURRENT WAVE FORM SUCH THAT THE CATHODE CURRENT WILL BE KEPT WITHIN RATINGS IN ORDER TO PREVENT DAMAGE TO THE TUBE.