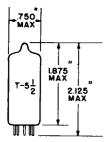
TUMB-SOL -

HEPTODE MINIATURE TYPE



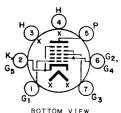
GLASS BULB
SMALL-BUTTON MINIATURE
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2

AVERAGE CHARACTERISTICS

COATED UNIPOTENTIAL CATHODE

FOR USE
AS A GATED AMPLIFIER IN
TELEVISION RECEIVERS

ANY MOUNTING POSITION



BOITOM VIEW
BASING DIAGRAM
JEDEC 7CH

300

MA.

THE 6BY6 IS A PENTAGRID AMPLIFIER USING THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED ESPECIALLY FOR USE AS A GATED AMPLIFIER IN TV RECEIVERS. IN SUCH SERVICE, IT MAY BE USED AS A COMBINED SYNC SEPARATOR AND SYNC CLIPPER.

DIRECT INTERELECTRODE CAPACITANCES

GRID #1 TO PLATE (MAX.)	0.08	рf
GRID #3 TO PLATE (MAX.)	0.35	рf
GRID #1 TO GRID #3 (MAX.)	0.22	рf
GRID #1 TO ALL OTHER ELECTRODES AND HEATER	5.4	рf
GRID #3 TO ALL OTHER ELECTRODES AND HEATER	6.9	рf
PLATE TO ALL OTHER ELECTRODES AND HEATER	7.6	рf

HEATER CHARACTERISTICS AND RATINGS

6.3 VOLTS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

HEATER SUPPLY LIMITS:

VOLTAGE OPERATION 6.3±0.6 VOLTS

MAXIMUM HEATER—CATHODE VOLTAGE:

HEATER NEGATIVE WITH RESPECT TO CATHODE 200 VOLTS

HEATER POSITIVE WITH RESPECT TO CATHODE 200^B VOLTS

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239
GATED AMPLIFIER SERVICE

PLATE VOLTAGE	→ 330	VOLTS
GRID #2 & #4 VOLTAGE	SEE RATING CHART	
GRID #2 & #4 SUPPLY VOLTAGE	→ 330	VOLTS
GRID #3 VOLTAGE:		
NEGATIVE BIAS VALUE	→ 55	VOLTS
POSITIVE BIAS VALUE	0	VOLTS
POSITIVE PEAK VALUE	→ 27	VOLTS
CONTINUED ON FOLLOWING PAGE		

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS - CONT'D.

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

GATED AMPLIFIER SERVICE

GRID #1 VOLTAGE:		
NEGATIVE BIAS VALUE	→ 110	VOLTS
PLATE DISSIPATION	→ 2.3	WATTS
GRID #3 INPUT	0.1	WATT
GRIDS #2 & #4 INPUT:*	0.1	WAII
FOR GRIDS #2 & #4 VOLTAGES UP TO 165 VOLTS	3 1.1	WATTS
FOR GRIDS #2 & #4 VOLTAGES		WALLS
BETWEEN 165 VOLTS AND 330 VOLTS	SEE RATING CHART	
GRID #1 INPUT	0.1	WATT
GRID #1 OR GRID #3 CIRCUIT RESISTANCE:	0.1	WALL
FIXED BIAS OPERATION	0.5	медонм
CATHODE BIAS OPERATION	1.0	MEGOHM
	1.0	MEGOHM
TYPICAL OPERATING CHARACT	TERISTICS	
CLASS A _l AMPLIFIE	R	
PLATE VOLTAGE	250	VOLTS
GRIDS #2 & .#4 VOLTAGE	100	VOLTS
GRID #3 VOLTAGE	-2.5	VOLTS
GRID #1 VOLTAGE	-2.5	VOLTS
GRID #3 TO PLATE TRANSCONDUCTANCE	500	MMHOS
GRID #1 TO PLATE TRANSCONDUCTANCE	1 900	имноѕ
PLATE CURRENT	6.5	MA.
GRID #2 & #4 CURRENT	9	MA.
GRID #3 VOLTS (APPROX.) FOR Ib = 35 MAMP.	9	MA.
AND GRID #1 VOLTS = -4	-15	VOLTS
GRID #1 VOLTS (APPROX.) FOR Ib = 35 MAMP.		
AND GRID #3 VOLTS = Ó	-12	VOLTS
SYNC SEPARATOR AND SYNC	CLIBBED	
• • • • • • • • • • • • • • • • • • • •	CETTER	
PLATE VOLTAGE	10	VOLTS
GRID #3 VOLTAGE	0	VOLTS
GRID #2 & #4 VOLTAGE	25	VOLTS
GRID #1 VOLTAGE	0	VOLTS
PLATE CURRENT	1.4	MA.
GRIDS #2 & #4 CURRENT	3.5	MA.
GRID #3 BIAS VOLTS (APPROX.) FOR		
PLATE VOLTAGE OF 25 VOLTS, GRIDS #2 & #4 VOLTAGE OF 25 VOLTS,		
GRID #1 VOLTAGE OF O VOLTS AND		
PLATE CURRENT OF 50 LAMP.	-2.5	VOLTS
GRID #1 BIAS VOLTAGE (APPROX.) FOR	-	
PLATE VOLTAGE OF 25 VOLTS,		
GRIDS #2 & #4 VOLTAGE OF 25 VOLTS,		
GRID ∦3 VOLTAGE OF ○ VOLTS AND PLATE CURRENT OF 5○ µAMP.	-2.3	VOLTS
	2.5	VULIS

 $[\]boldsymbol{B}_{\text{THE}}$ DC component must not exceed 100 volts.

