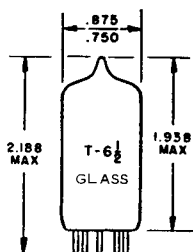


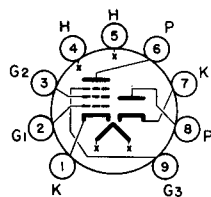
TUNG-SOL

DIODE - PENTODE

MINIATURE TYPE

OUTLINE DRAWING
JEDEC 6-2BASE 9 PIN BUTTON
JEDEC E9-1BASING DIAGRAM
JEDEC 9CY

FOR
VIDEO DETECTOR
AND IF AMPLIFIER
APPLICATIONS IN T.V. RECEIVERS



BOTTOM VIEW

THE 6HJ8 IS A DIODE AND SHARP-CUTOFF PENTODE WITH SEPARATE CATHODES IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED ESPECIALLY FOR USE AS A VIDEO DETECTOR AND IF AMPLIFIER IN TELEVISION RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD #315

DIODE SECTION:

PLATE TO CATHODE AND HEATER	2.4	pf
CATHODE TO PLATE AND HEATER	3.0	pf

PENTODE SECTION:

GRID 1 TO PLATE	MAX.	0.015	pf
GRID 1 TO CATHODE, GRID 3 & INTERNAL SHIELD, GRID 2, & HEATER		7.0	pf
PLATE TO CATHODE, GRID 3 & INTERNAL SHIELD, GRID 2, & HEATER		3.2	pf
DIODE PLATE TO PENTODE GRID 1	MAX.	0.005	pf
DIODE CATHODE TO PENTODE PLATE	MAX.	0.015	pf
DIODE PLATE TO PENTODE PLATE	MAX.	0.035	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	450	mA
HEATER WARM-UP TIME - AVERAGE		11	SECONDS
LIMITS OF APPLIED VOLTAGE - AC OR DC	6.3 ± 0.6		VOLTS
LIMITS OF SUPPLIED CURRENT - AC OR DC	450 ± 30		mA
PEAK HEATER - CATHODE VOLTAGE - EACH SECTION		200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		200	VOLTS
DC COMPONENT		100	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PENTODE SECTION - CLASS A₁ AMPLIFIER

PLATE VOLTAGE	330	VOLTS
PLATE VOLTAGE	330	VOLTS
GRID 2 SUPPLY VOLTAGE	330	VOLTS
GRID 2 VOLTAGE	SEE RATING CHART	
GRID 1 VOLTAGE:		
POSITIVE - BIAS VALUE	0	VOLTS
PLATE DISSIPATION	3.2	WATTS
GRID 2 DISSIPATION:		
FOR GRID 2 VOLTAGE UP TO 165 VOLTS	0.55	WATTS
FOR GRID 2 VOLTAGE BETWEEN 165 AND 330 VOLTS	SEE RATING CHART	
GRID 1 CIRCUIT RESISTANCE:		
FOR FIXED - BIAS OPERATION	0.25	MEGOHM
FOR CATHODE - BIAS OPERATION	1	MEGOHM

DIODE SECTION

DC PLATE CURRENT	5	mA
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CHARACTERISTICS

PENTODE SECTION - CLASS A₁ AMPLIFIER

PLATE VOLTAGE	125	VOLTS
GRID 3	CONNECTED TO CATHODE AT SOCKET	
GRID 2 VOLTAGE	125	VOLTS
CATHODE RESISTOR	56	OHMS
PLATE CURRENT	11.5	mA
GRID 2 CURRENT	3.6	mA
TRANSCONDUCTANCE	9,300	μMHOS
PLATE RESISTANCE	APPROX. 0.2	MEGOHM
GRID 1 VOLTAGE FOR $I_b = 20 \mu A$	APPROX. -6	VOLTS
GRID 1 VOLTAGE FOR $I_b = 2 \text{ mA}$ AND $R_k = 0 \text{ OHMS}$	APPROX. -3	VOLTS

DIODE SECTION - INSTANTANEOUS VALUE

VOLTAGE DROP AT 50 mA	10	VOLTS
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