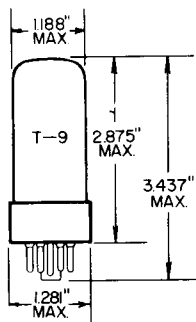


TUNG-SOL

DIODE

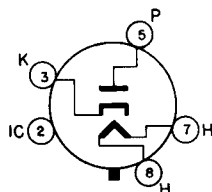


GLASS BULB
SHORT INTERMEDIATE SHELL
5 PIN OCTAL B5-85
OUTLINE DRAWING
JEDEC 9-43

FOR
HORIZONTAL FREQUENCY DAMPER
SERVICE IN T.V. RECEIVERS

ANY MOUNTING POSITION

SOCKET TERMINALS, NUMBERS 1, 2, 4 & 6
SHALL NOT BE USED AS TIE POINTS



BOTTOM VIEW
BASING DIAGRAM
JEDEC 4CG

THE 6DQ4 IS A HEATER-CATHODE TYPE DIODE DESIGNED FOR USE IN HORIZONTAL FREQUENCY DAMPER SERVICE IN TELEVISION RECEIVERS. IN OPERATION, THE TUBE CAN WITHSTAND HIGH VOLTAGE PULSES OF HORIZONTAL LINE FREQUENCY BETWEEN CATHODE AND BOTH HEATER AND PLATE ELEMENTS, SUCH AS NORMALLY ENCOUNTERED IN "DIRECT-DRIVE" CIRCUITS.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

HEATER TO CATHODE	4.0	pf
PLATE TO CATHODE AND HEATER	5.0	pf
CATHODE TO PLATE AND HEATER	8.5	pf

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 HEATER CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
DC COMPONENT		900	VOLTS
TOTAL DC AND PEAK		5500	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC COMPONENT		100	VOLTS
TOTAL DC AND PEAK		300	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

FOR TV DAMPER SERVICE ^{A, B}

PEAK INVERSE PLATE VOLTAGE	5500	VOLTS
STEADY STATE PEAK PLATE CURRENT	1000	MA.
DC OUTPUT CURRENT	175	MA.
PLATE DISSIPATION	6.0	WATTS

CHARACTERISTICS

TUBE VOLTAGE DROP (TUBE CONDUCTING AT 250 MA.) SEE CHART	32	VOLTS
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^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 AND ITS DURATION IS LIMITED TO 10 MICRO SECONDS.

^B OPERATION OF THIS TUBE AS A POWER RECTIFIER IS NOT RECOMMENDED.

