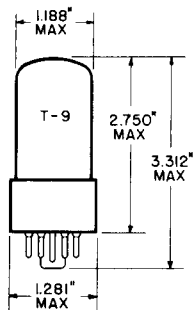


TUNG-SOL

DIODE



GLASS BULB

INTERMEDIATE SHELL
5 PIN OCTAL
B5-82, B5-85 OR B5-147

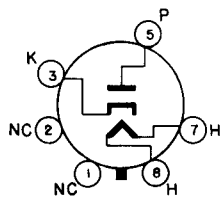
SHORT INTERMEDIATE SHELL
6 PIN OCTAL B6-60

OUTLINE DRAWING
JEDEC 9-11 OR 9-41

FOR DAMPER SERVICE
IN TV RECEIVERS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 4CG

PINS 1, 2, 4, & 6 SHALL NOT BE
USED AS TIE POINTS.
PIN 1 IS OMITTED ON
BASE B5-82, B5-85 & B5-147

THE 6AX4GT IS A SINGLE INDIRECTLY-HEATED DIODE INTENDED FOR USE IN TELEVISION HORIZONTAL FREQUENCY DAMPER SERVICE. IT IS DESIGNED TO WITHSTAND HIGH VOLTAGE PULSES OF LINE FREQUENCY BETWEEN CATHODE AND BOTH HEATER AND PLATE ELEMENTS SUCH AS NORMALLY ENCOUNTERED IN 'DIRECT-DRIVE' CIRCUITS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX. ^A
WITHOUT EXTERNAL SHIELD

HEATER TO CATHODE: H TO K	4.0	pf
PLATE TO CATHODE AND HEATER: P TO (K + H)	5.0	pf
CATHODE TO PLATE AND HEATER: K TO (P + H)	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	900			VOLTS
TOTAL DC AND PEAK	4400			VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE				
DC	100			VOLTS
TOTAL DC AND PEAK	300			VOLTS

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

DAMPER SERVICE^B

PEAK INVERSE PLATE VOLTAGE	4400	VOLTS
DC PLATE CURRENT	→ 137	MA.
PEAK PLATE CURRENT	→ 825	MA.
PLATE DISSIPATION	→ 5.0	WATTS

AVERAGE CHARACTERISTICS

TUBE VOLTAGE DROP WITH TUBE CONDUCTING 250 MA	32	VOLTS
--------------------------------------------------	----	-------

A

FOR THE MEASUREMENT OF PLATE TO CATHODE PLUS HEATER AND CATHODE TO PLATE PLUS HEATER CAPACITIES, UNUSED PINS, METAL PARTS, ETC. SHALL BE CONNECTED TO THE HEATER.

B

FOR OPERATION IN A 525 LINE, 30 FRAME SYSTEM AS DESCRIBED IN 'STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCASTING STATIONS; FEDERAL COMMUNICATIONS COMMISSION.' THE DUTY CYCLE OF THE HORIZONTAL VOLTAGE PULSE NOT TO EXCEED 15% OF A SCANNING CYCLE. POWER RECTIFIER OPERATION IS NOT RECOMMENDED.

→ INDICATES A CHANGE.