

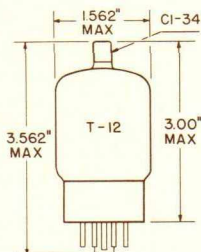
TUNG-SOL

DIODE

COATED FILAMENT

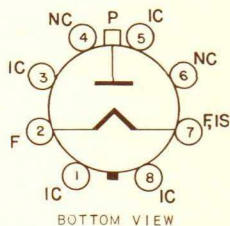
FOR HIGH VOLTAGE
RECTIFIER APPLICATIONS

ANY MOUNTING POSITION



GLASS BULB
SHORT MEDIUM SHELL
7 PIN OCTAL B7-227

SOCKET TERMINALS 1, 3, 4, 5, 6 AND 8 MAY BE CONNECTED TO TERMINAL 7 OR TO A CORONA SHIELD WHICH CONNECTS TO TERMINAL 7. TERMINALS 4 & 6 MAY BE USED AS TIE POINTS AT OR NEAR FILAMENT POTENTIAL.



BOTTOM VIEW

BASING DIAGRAM
JEDEC 3C

THE IN2A IS A FILAMENTARY HALF-WAVE DIODE INTENDED FOR SERVICE AS THE HIGH VOLTAGE RECTIFIER IN TELEVISION RECEIVERS AND OTHER HIGH VOLTAGE RECTIFIER APPLICATIONS.

IT IS IDENTICAL TO TYPE IN2 EXCEPT TYPE IN2A IS CONTAINED IN A SHORTER BULB THAN TYPE IN2.

DIRECT INTERELECTRODE CAPACITANCES

PLATE TO FILAMENT AND INTERNAL SHIELD	1.4	pf
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FILAMENT CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	1.25 VOLTS	200	MA.
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FILAMENT SUPPLY LIMITS:

VOLTAGE OPERATION ^C	1.25±0.20	VOLTS
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MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

FLYBACK VOLTAGE RECTIFIER^D

INVERSE PLATE VOLTAGE:

TOTAL DC AND PEAK	28,000	VOLTS
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DC	24,000	MA.
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PEAK PLATE CURRENT	50	MA.
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AVERAGE PLATE CURRENT	0.5	MA.
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TUNG-SOL

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CHARACTERISTICS

TUBE DROP FOR $I_b = 7$ MA. (APPROX.)

100 VOLTS

C FILAMENT SUPPLY VARIATIONS SHALL BE RESTRICTED TO MAINTAIN FILAMENT VOLTAGE WITHIN THE SPECIFIED VALUES.

D 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.

X-RAY RADIATION SHIELDING MAY BE NECESSARY TO PROTECT AGAINST POSSIBLE DANGER OF PERSONAL INJURY FROM PROLONGED EXPOSURE AT CLOSE RANGE IF THIS TUBE IS OPERATED AT HIGHER THAN THE MANUFACTURER'S MAXIMUM RATED PLATE VOLTAGE OR 16,000 VOLTS WHICHEVER IS LESS.