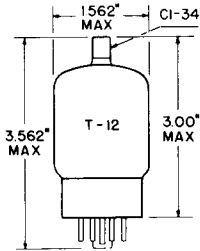


**TUNG-SOL**

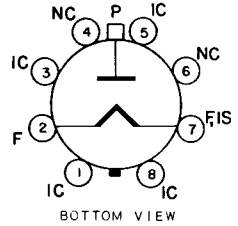
DIODE

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

**FILAMENT CHARACTERISTICS AND RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS 1.25 VOLTS 200 MA.

FILAMENT SUPPLY LIMITS:  
 VOLTAGE OPERATION <sup>C</sup> 1.25±0.20 VOLTS

**MAXIMUM RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

FLYBACK VOLTAGE RECTIFIER<sup>D</sup>

INVERSE PLATE VOLTAGE:  
 TOTAL DC AND PEAK 28,000 VOLTS  
 DC 24,000 MA.  
 PEAK PLATE CURRENT 50 MA.  
 AVERAGE PLATE CURRENT 0.5 MA.

CONTINUED ON FOLLOWING PAGE

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# TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## CHARACTERISTICS

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

100 VOLTS

<sup>C</sup> FILAMENT SUPPLY VARIATIONS SHALL BE RESTRICTED TO MAINTAIN FILAMENT VOLTAGE WITHIN THE SPECIFIED VALUES.

<sup>D</sup> 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 35% 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.