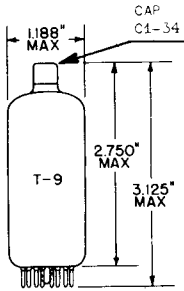


**TUNG-SOL**

DIODE

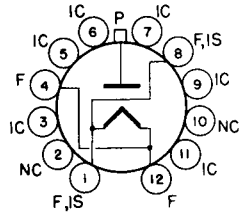


GLASS BULB  
BUTTON  
12 PIN BASE E12-70  
OUTLINE DRAWING  
JEDEC 9-98

COATED FILAMENTARY CATHODE

FOR TV HIGH VOLTAGE  
RECTIFIER

ANY MOUNTING POSITION  
SOCKET CLIPS 2 & 10 MAY BE USED AS  
TIE POSTS AT A POTENTIAL NEAR  
THAT OF THE FILAMENT



BOTTOM VIEW  
BASING DIAGRAM  
JEDEC 12EL

THE 1AJ2 IS A FILAMENTARY HIGH-VOLTAGE DIODE IN A DOUBLE-ENDED T-9 COMPACTRON CONSTRUCTION. IT IS DESIGNED FOR USE AS THE RECTIFIER IN THE FLY-BACK CIRCUIT TO SUPPLY THE ANODE OF THE TELEVISION PICTURE TUBE.

**DIRECT INTERELECTRODE CAPACITANCE**  
WITHOUT EXTERNAL SHIELD

PLATE TO ALL: P TO (P + I.S.) - APPROX.

1.8 pf

**FILAMENT CHARACTERISTICS AND RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	1.25 VOLTS	200	MA.
LIMITS OF APPLIED FILAMENT VOLTAGE			
AC OR DC		1.25±0.20	VOLTS

**MAXIMUM RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239  
FLYBACK VOLTAGE RECTIFIER SERVICE

INVERSE PLATE VOLTAGE			
TOTAL DC AND PEAK		26	KV.
DC		22	KV.
PEAK PLATE CURRENT		50	MA.
DC OUTPUT CURRENT		0.5	MA.

**AVERAGE CHARACTERISTICS**

TUBE DROP WITH 7 MA PLATE CURRENT - APPROX.	140	VOLTS
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CONTINUED ON FOLLOWING PAGE

**TUNG-SOL**

CONTINUED FROM PRECEDING PAGE

THE FLYBACK PULSE SHOULD BE TAKEN FROM THE HORIZONTAL DEFLECTION CIRCUIT OF A 525-LINE, 30-FRAME TELEVISION SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE CONCERNING TELEVISION BROADCAST STATIONS" FEDERAL COMMUNICATIONS COMMISSION. THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

PRECAUTIONARY NOTE:

THIS TUBE MAY PRODUCE SOFT X-RAYS WHICH CAN CONSTITUTE A HEALTH HAZARD UNLESS ADEQUATELY SHIELDED.