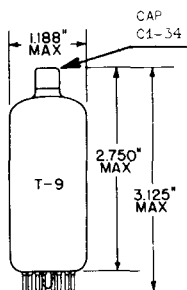


TUNG-SOL

DIODE

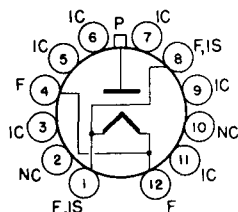


GLASS BULB
BUTTON
12 PIN BASE E12-70
OUTLINE DRAWING
JEDEC 9-98

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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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.