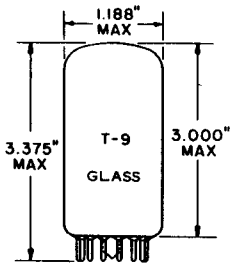
TUNG-SOL

DIODE
COMPACTRON

OUTLINE



BASE 12 PIN BUTTON
JEDEC E12-70

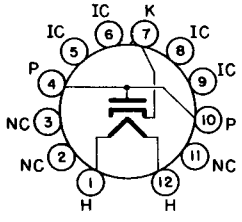
FOR

T.V. DAMPER SERVICE

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION

BASING DIAGRAM
JEDEC 12FX



BOTTOM VIEW

THE TUNG-SOL 34CD3 IS AN INDIRECTLY-HEATED DIODE IN COMPACTRON CONSTRUCTION. IT IS INTENDED FOR USE IN DAMPER SERVICE OF TELEVISION HORIZONTAL DEFLECTION CIRCUITS. IT IS DESIGNED TO WITHSTAND HIGH VOLTAGE PULSES BETWEEN CATHODE AND BOTH HEATER AND PLATE ELEMENTS SUCH AS NORMALLY ENCOUNTERED IN "DIRECT DRIVE" CIRCUITS. ITS HIGH CURRENT CAPABILITY MAKES IT PARTICULARLY SUITABLE FOR COLOR TELEVISION APPLICATIONS.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

CATHODE TO PLATE AND HEATER: K TO (P+H)	16	pf
PLATE TO CATHODE AND HEATER: P TO (K+H)	13	pf
HEATER TO CATHODE: H TO K	4.6	pf

HEATER CHARACTERISTICS AND RATINGS
DESIGN MAXIMUM SYSTEM-SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	34.5 VOLTS	450	mA
HEATER WARM-UP TIME		11	SECONDS
LIMITS OF SUPPLIED CURRENT		450 ± 30	mA
MAXIMUM HEATER CATHODE VOLTAGE *			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
DC		1,000	VOLTS
TOTAL DC AND PEAK		6,000	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC		100	VOLTS
TOTAL DC AND PEAK		300	VOLTS

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

DAMPER DIODE SERVICE *		
PEAK INVERSE PLATE VOLTAGE	6,000	VOLTS
DC OUTPUT CURRENT	350	MA.
STEADY STATE PEAK PLATE CURRENT	1,500	MA.
PLATE DISSIPATION	12	WATTS

AVERAGE CHARACTERISTICS

TUBE VOLTAGE DROP	SEE GRAPH BELOW

* 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 VOLTAGE PULSE IS NOT EXCEED 15 PER CENT OF A SCANNING CYCLE.