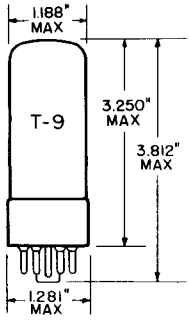
TUNG-SOL

DIODE



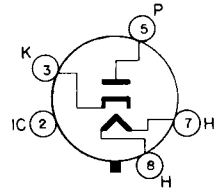
GLASS BULB

SHORT INTERMEDIATE SHELL
5 PIN OCTAL BASE B5-85
OUTLINE DRAWING
JEDEC 9-44

FOR DAMPER SERVICE IN
TELEVISION RECEIVERS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM
JEDEC 4CG

SOCKET TERMINALS 1,2,4 & 6,
SHOULD NOT BE USED AS
TIE POINTS.

THE 17DM4A IS AN INDIRECTLY-HEATED HALF-WAVE RECTIFIER EMPLOYING A T-9 ENVELOPE. IT IS DESIGNED SPECIFICALLY FOR USE AS A DAMPER DIODE IN HORIZONTAL DEFLECTION CIRCUITS OF TELEVISION RECEIVERS.

EXCEPT FOR HEATER CHARACTERISTICS AND RATINGS, THE 17DM4A IS IDENTICAL TO THE 6DM4A AND THE 12DM4A.

ALSO, THE 17DM4A IS IDENTICAL TO THE 17DM4 EXCEPT FOR HIGHER PLATE CURRENT RATINGS.

DIRECT INTERELECTRODE CAPACITANCES

HEATER TO CATHODE	4	pf
PLATE TO CATHODE	8.5	pf
CATHODE TO PLATE AND HEATER	11.5	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	16.8	VOLTS	450	MA.
HEATER WARM-UP TIME[A]			11	SECONDS
HEATER SUPPLY LIMITS:				
CURRENT OPERATION			450 ± 30	MA.
MAXIMUM HEATER-CATHODE VOLTAGE:				
HEATER NEGATIVE WITH RESPECT TO CATHODE			900	VOLTS
TOTAL DC AND PEAK			5000	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			100	
TOTAL DC AND PEAK			300	VOLTS

A

HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE THREE TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

DAMPER SERVICE[B]

PEAK INVERSE VOLTAGE	5000	VOLTS
PEAK PLATE CURRENT	1200	MA.
DC PLATE CURRENT	200	MA.
PLATE DISSIPATION	6.5	WATTS

CHARACTERISTICS

VOLTAGE DROP AT Ib = 400 MA.	35	VOLTS

B
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 NOT TO EXCEED 15 PERCENT OF A SCANNING CYCLE.