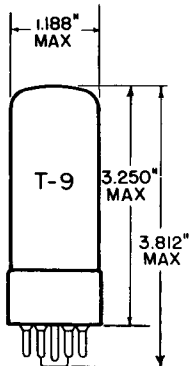


TUNG-SOL

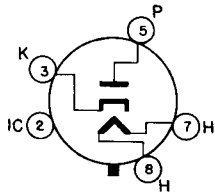
DIODE



GLASS BULB
SHORT INTERMEDIATE SHELL
5 PIN OCTAL WITH
EXTERNAL BARRIERS
85 - 85
OUTLINE DRAWING
JEDEC 9-44

UNIPOTENTIAL CATHODE
FOR DAMPER SERVICE IN
TELEVISION RECEIVERS

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 4CG

THE 17DM4 IS A HALF-WAVE VACUUM RECTIFIER EMPLOYING A T-9 ENVELOPE. IT IS DESIGNED SPECIFICALLY FOR USE AS A DAMPER DIODE IN HORIZONTAL-DEFLECTION CIRCUITS OF BLACK-AND-WHITE TELEVISION RECEIVERS. EXCEPT FOR HEATER CHARACTERISTICS AND HEATER WARM-UP TIME, THE 17DM4 IS IDENTICAL TO THE 6DM4 AND THE 12DM4.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITHOUT EXTERNAL SHIELD

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

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	16.8 VOLTS	450	MA.
HEATER SUPPLY LIMITS: CURRENT OPERATION		450±27	MA.
MAXIMUM PEAK HEATER CATHODE VOLTAGE: HEATER NEGATIVE WITH RESPECT TO CATHODE		5000 ^A	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		300 ^B	VOLTS
HEATER WARM-UP TIME (AVERAGE) ^C		11	SECONDS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

DAMPER SERVICE

PEAK INVERSE PLATE VOLTAGE	5000 ^D	VOLTS
PEAK PLATE CURRENT	1100	MA.
DC PLATE CURRENT	175	MA.
PLATE DISSIPATION	6.5	WATTS

CHARACTERISTICS

TUBE VOLTAGE DROP FOR PLATE CURRENT OF 400 MA. APPROXIMATE	35	VOLTS
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^A THE DC COMPONENT MUST NOT EXCEED 900 VOLTS.

^B THE DC COMPONENT MUST NOT EXCEED 100 VOLTS.

^C 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 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

^D 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 15% OF ONE SCANNING CYCLE. (15% OF ONE HORIZONTAL SCANNING CYCLE IS 10 MICROSECONDS.)