

TELEVISION DAMPING DIODE TYPE 6DM4 AND 17DM4

The 6DM4 and 17DM4 are octal based indirectly-heated half-wave rectifiers designed for television damping diode service in horizontal deflection circuits.

ELECTRICAL

Cathode.....	Coated Unipotential		
Heater:	6DM4	17DM4	
Voltage (ac or dc)	6.3 ± 10%	16.8	Volts
Current	1.2	0.45 ± 6%	Ampere
Warm-Up Time (Note 1)	-	11	Seconds
Direct Interelectrode Capacitances:			
Heater to Cathode	4	μμf	
Plate to Cathode and Heater	8.5	μμf	
Cathode to Plate and Heater	11.5	μμf	

MECHANICAL

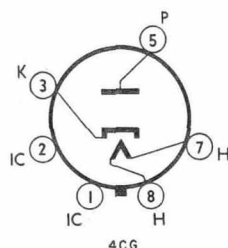
Bulb	T-9
Base Note 2 . Short Intermediate-Shell Octal 5-Pin (JEDEC B5-85)	
Basing	4CG
Mounting Position	Any

DAMPER SERVICE (Note 3)

MAXIMUM RATINGS

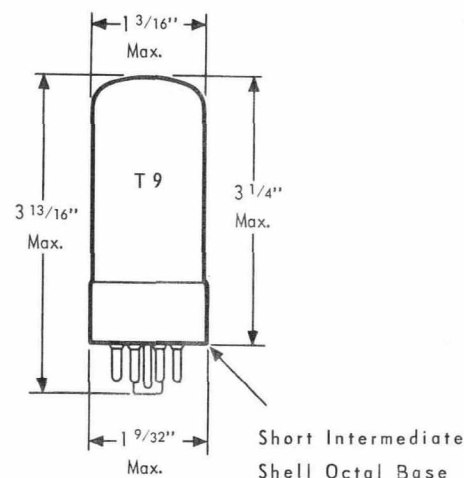
Design Maximum Values

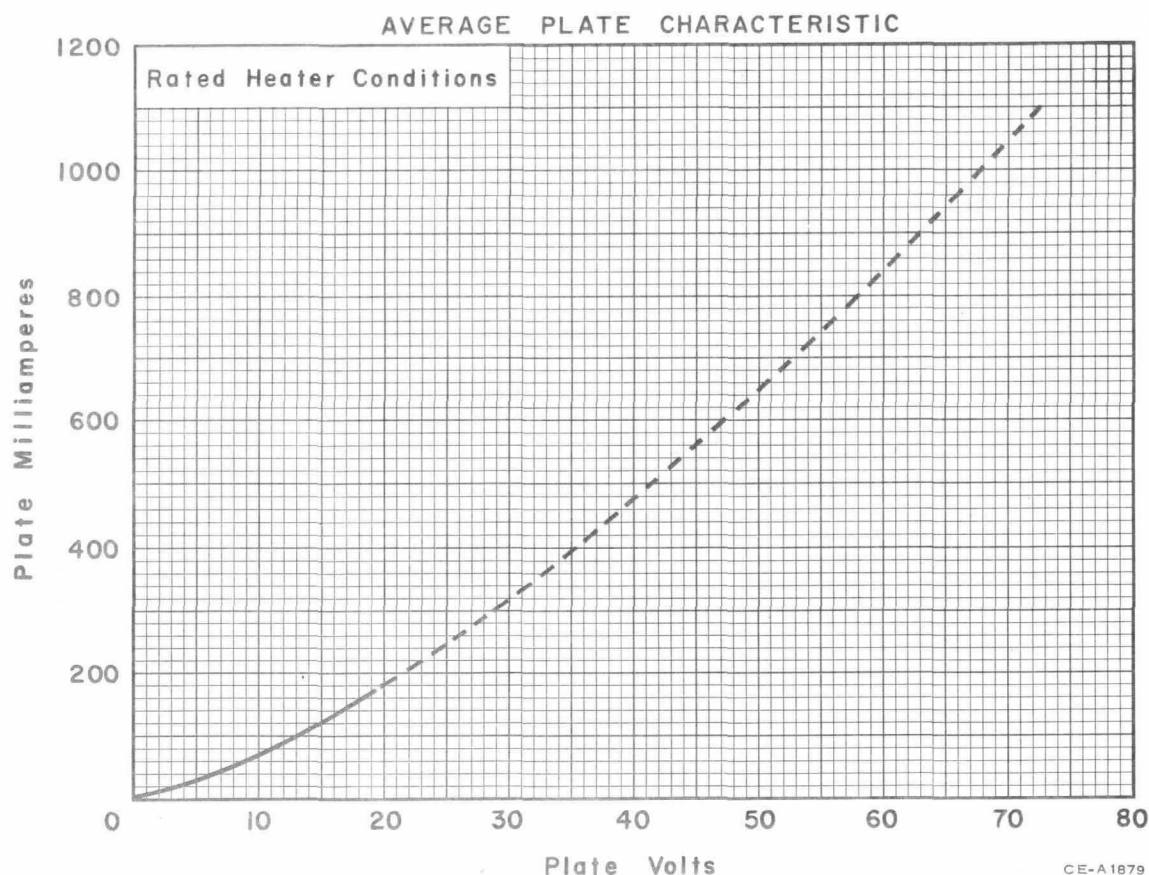
Peak Inverse Voltage	5000	max.	Volts
Peak Plate Current	1100	max.	Ma.
DC Plate Current	175	max.	Ma.
Heater-Cathode Voltage:			
Heater Negative with Respect to			
Cathode	900	max.	Volts
Total DC and Peak	5000	max.	Volts
Heater Positive with Respect to			
Cathode	100	max.	Volts
Total DC and Peak	300	max.	Volts
Voltage Drop at $I_b = 400$ Ma.	35		Volts
Plate Dissipation	6.5	max.	Watts



NOTES

1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated value after applying 4 times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to 3 times rated heater voltage divided by rated heater current.
2. The JEDEC B5-85 base specified for use with the above tube types do not have pins in base positions 1, 4, and 6. However positions 1 and 6 have internal connections terminating in stem leads. Base terminal position 2 has a base pin which may be connected to a stem lead. Because of the close proximity of stem leads to the socket pin clips when the tube is seated in the socket, circuit tie points should not be made to socket terminals 1, 2, 4 and 6 unless adequate precautions are taken against voltage breakdown in both the tube base and the socket. To reduce the possibility of arcover, it is recommended socket clips for positions 1, 2, 4 and 6 be removed from the damper tube socket.
3. 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 of the horizontal voltage pulse not to exceed 15% of one scanning cycle.





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