

6W4-GT - 25W4-GTDescription and Rating

DIODE

FOR TV DAMPING DIODE APPLICATIONS

The 6W4-GT and 25W4-GT are high-vacuum, heater-cathode type diodes each of which is intended for use as the damping diode in the horizontal-deflection circuit of television receivers. Except for heater ratings and direct interelectrode capacitances, the 6W4-GT and 25W4-GT are identical. Each type exhibits a high-perveance characteristic and is capable of withstanding the relatively high pulse voltages normally encountered in this application.

GENERAL

Cathode - Coated Unipotential	W4-GI 25W4-GI
Heater Voltage, A-C or D-C	
Envelope - T-9, Glass Base - B5-82 or B6-9, Intermediate Shell Octal	
or B5-85 or B6-60, Short Intermediate Shell Octal Mounting Position - Any	
Direct Interelectrode Capacitances, approximate*	6W4-GI 25W4-GI
Cathode to Plate and Heater	

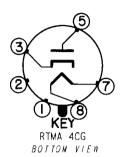
MAXIMUM RATINGS

DESIGN-CENTER VALUES UNLESS OTHE	ERWISE INDICATED Dame	per Service ‡	
Peak Inverse Plate Voltage § Plate Dissipation Steady-State Peak Plate Current D-C Output Current		3850 3.5 750 125	Volts Watts Milliamperes Milliamperes
Heater-Cathode Voltage	6 W4-GT	25 W4-GT	
Heater Positive with Respect	to Cathode		
D-C Component	100	100	Volts
Total D-C and Peak	300	200	Volts
Heater Negative with Respect	to Cathode §		
D-C Component	500		Volts
Total D-C and Peak	2300	500	Volts

AVERAGE CHARACTERISTICS

Tube Voltage Drop		
AT 250 Milliamperes D-C	 21	Volts

BASING DIAGRAM



TERMINAL CONNECTIONS

Pin I - No Connection + Pin 2 - No Connection

Pin 3 - Cathode

Pin 5 - Plate

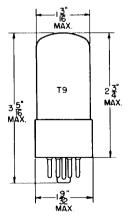
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Pin 7 - Heater

Pin 8 - Heater

PHYSICAL DIMENSIONS



RTMA 9-11 or 9-41



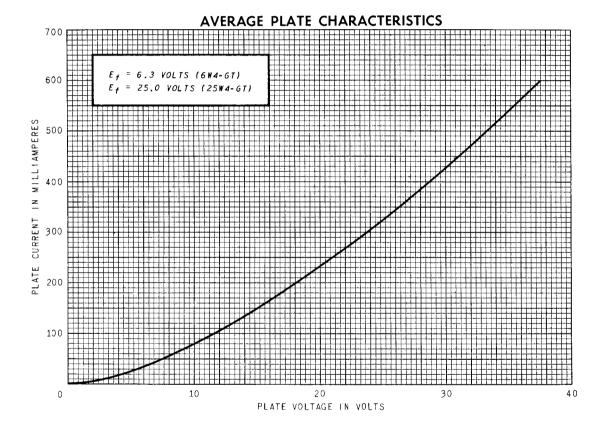
6W4-GT 25W4-GT

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- * Without external shield.
- + Pin 1 omitted on bases B5-82 and B5-85.
- ‡ For operation in a 525-line, 30-frame television system as described in "Standards of Good Engineering Practice for Television Stations; Federal Communications Commission". The duty cycle of the voltage pulse must*not exceed 15 percent of one scanning cycle.
- § Value given is to be considered as an Absolute Maximum Rating. In this case, the combined effect of supply voltage variation, manufacturing variation including components in the equipment, and adjustment of equipment controls should not cause the rated value to be exceeded.

Note: Socket terminals 1, 2, 4 and 6 should not be used.

Operation of this tube as a power rectifier is not recommended.



GENERAL ELECTRIC Schenectady 5, N. Y.