

TELEVISION DAMPING DIODE TYPES 6AU4-GTA and 19AU4-GTA

The 6AU4-GTA and 19AU4-GTA are 6-pin octal indirectly heated half-wave rectifiers designed for service as damping diodes in horizontal deflection circuits of black and white and color television receivers.

The 19AU4-GTA has been designed for use in receivers which employ series connected heaters, especially in television receivers where the picture-tube heater is in series with other heaters. When it is employed in this type of circuit with other tubes similarly designed and having a heater current rating of 600 ma., heater voltage surges across individual tubes are minimized inasmuch as the heater warm-up characteristic is controlled.

ELECTRICAL:

Cathode	Coated Unipotential	
Heater:	6AU4-GTA	19AU4-GTA
Voltage (ac or dc)	6.3	18.9 Volts
Current	1.8	0.6 ± 6% Ampere
Warm-up Time ■	..	11 Seconds
Direct Interelectrode Capacitances (Unshielded):#		
Heater to Cathode	3.2	uuf
Plate to Cathode and Heater	7.0	uuf
Cathode to Plate and Heater	10.0	uuf

MECHANICAL:

Bulb	T-9
Base	Short Intermediate Shell Octal 6-Pin (JETEC B6-60)
Outline	9-44
Basing	4CG
Mounting Position	Any

MAXIMUM RATINGS in DAMPER SERVICE: ▲

Design Center Values	
Peak Inverse Voltage	4500* max. Volts
Peak Plate Current	1100 max. Ma.
DC Plate Current	190 max. Ma.
Heater-Cathode Voltage:	
Heater Negative with Respect to Cathode:	
DC Component	900 max. Volts
Total DC and Peak	4500 max. Volts
Heater Positive with Respect to Cathode:	
DC Component	100 max. Volts
Total DC and Peak	300 max. Volts
Plate Dissipation	6 max. Watts
Voltage Drop at 350 Ma, approx.	25 Volts

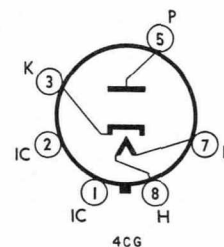
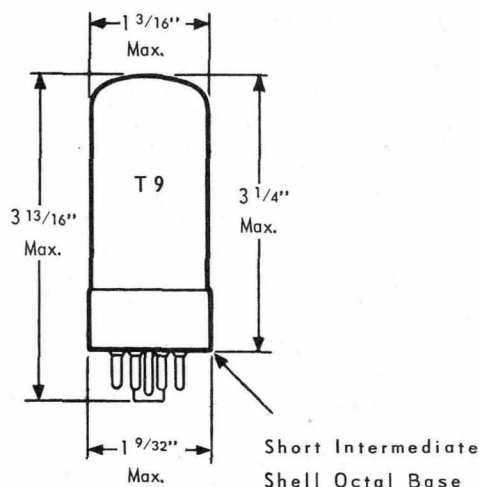
NOTES

■ 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 four times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three times rated heater voltage divided by rated heater current.

▲ 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.

* Absolute Maximum Value, not to be exceeded at any time.

Tie unused pins to heater.



BOTTOM VIEW

NOTE: Pins 1, 2, 4, 6 must not be used as tie points.

AVERAGE CHARACTERISTIC

