



19AU4

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HALF-WAVE VACUUM RECTIFIER

Intended for TV damper service in equipment having series heater-string arrangement.

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage.	18.9 ac or dc volts
Current.	0.6 amp
Warm-up time (Average)	11 sec

For definition of heater warm-up time and method of determining it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of this Section.

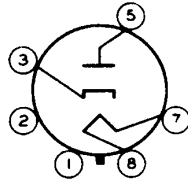
Direct Interelectrode Capacitances (Approx.):^o

Plate to heater and cathode.	8.5	$\mu\mu\text{f}$
Cathode to heater and plate.	11.5	$\mu\mu\text{f}$
Heater to cathode.	4	$\mu\mu\text{f}$

Mechanical:

Mounting Position. Any
 Maximum Overall Length 3-13/16"
 Maximum Seated Length. 3-1/4"
 Maximum Diameter 1-9/32"
 Dimensional Outline. See General Section
 Bulb T-9
 Base Short Intermediate-Shell Octal 5-Pin
 with External Barriers (JETEC No. B5-85),
 or Short Intermediate-Shell Octal 6-Pin
 with External Barriers (JETEC No. B6-60)
 Basing Designation for BOTTOM VIEW 4CG

Pin 1 \blacklozenge - Same as Pin 2
 Pin 2 - No Connection - Do Not Use \bullet



Pin 3 - Cathode
 Pin 5 - Plate
 Pin 7 - Heater
 Pin 8 - Heater

DAMPER SERVICE

Maximum Ratings, Design-Center Values Except as Noted:
For operation in a 525-line, 30-frame system[□]

PEAK INVERSE PLATE VOLTAGE (Absolute maximum)*.	4500 [■]	max. volts
PEAK PLATE CURRENT	1050	max. ma
DC PLATE CURRENT	175	max. ma
PLATE DISSIPATION.	6	max. watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode (Absolute maximum)	4500 ^{■▲}	max. volts
Heater positive with respect to cathode.	300 [#]	max. volts

^o Without external shield.
 \blacklozenge on the 5-pin base, pin 1 as well as pins 4 and 6 is omitted.
 $\bullet, \square, *, \blacksquare, \blacktriangle, \#$: See next page.

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- Socket terminals 1, 2, 4, and 6 should not be used as tie points.
- As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.
- * This rating is applicable when the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- Under no circumstances should this absolute value be exceeded.
- ▲ The dc component must not exceed 900 volts (Absolute maximum).
- * The dc component must not exceed 100 volts.

AVERAGE PLATE CHARACTERISTIC

