



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

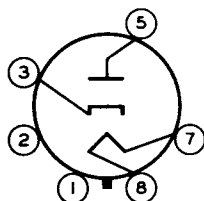
Plate to heater and cathode.	8.5	$\mu\mu\text{f}$
Cathode to heater and plate.	11.5	$\mu\mu\text{f}$
Heater to cathode.	4	$\mu\mu\text{f}$

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 Connec-
tion—Do
Not Use[•]



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.

•, □, *, ■, ▲, #: 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 percent 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

