

Half-Wave Vacuum Rectifier

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (<i>Design-Maximum Values</i>):			
Voltage (AC or DC)	6.3 ± 0.6	volts	
Current at heater volts = 6.3	1.600	amp	
Peak heater-cathode voltage:			
Heater negative with respect to cathode ^a	5500 ^b	max. volts	
Heater positive with respect to cathode.	300 ^c	max. volts	
Direct Interelectrode Capacitances (Approx.): ^d			
Plate to cathode and heater	8.5	μμf	
Cathode to plate and heater	11.5	μμf	
Heater to cathode	4	μμf	

Mechanical:

Operating Position.	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length.	3-13/16"
Maximum Seated Length	3-1/4"
Maximum Diameter.	1-9/32"
Bulb.	T9

Bases (Alternates):

Intermediate-Shell Octal with External Barriers:

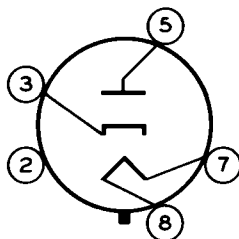
5-Pin, Arrangement 2 (JEDEC Group 1, No.B5-147)

Short Intermediate-Shell Octal with External Barriers:

5-Pin, Arrangement 2 (JEDEC Group 1, No.B5-85)

Basing Designation for BOTTOM VIEW. 4CG

Pin 2 - Do Not Use^e
Pin 3 - Cathode
Pin 5 - Plate



Pin 7 - Heater
Pin 8 - Heater

DAMPER SERVICE

Maximum Ratings, *Design-Maximum Values*:

For operation in a 525-line, 30-frame system^f

PEAK INVERSE PLATE VOLTAGE ^a	5500 max.	volts
PEAK PLATE CURRENT	1200 max.	ma
DC PLATE CURRENT	190 max.	ma
PLATE DISSIPATION.	6.5 max.	watts

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma. = 250.	25	volts
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6CQ4

- a 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.
- b The dc component must not exceed 900 volts.
- c The dc component must not exceed 100 volts.
- d Without external shield.
- e Socket terminals 1, 2, 4, and 6 should not be used as tie points.
- f As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

