

## Half-Wave Vacuum Rectifier

For Television Damper Service

### Electrical:

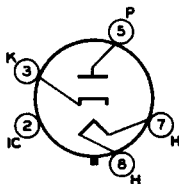
#### Heater Characteristics and Ratings:

Current . . . . .	0.450 ± 0.030	amp
Voltage (AC or DC) at heater amperes = 0.450	16.8	volts
Warm-up time (Average) . . . . .	11	sec
Maximum heater-cathode voltage:		
Heater negative with respect to cathode <sup>a</sup>		
Peak . . . . .	5000	volts
DC component . . . . .	900	volts
Heater positive with respect to cathode		
Peak . . . . .	300	volts
DC component . . . . .	100	volts
Direct Inter-electrode Capacitances (Approx.):		
P to (K,H) . . . . .	8.5	pf
K to (P,H) . . . . .	11.5	pf
Heater to cathode. . . . .	4.0	pf

### 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
Base . . . . .	Short Intermediate-Shell Octal 5-Pin (JEDEC No. B5-85)
Basing Designation for BOTTOM VIEW . . . . .	4CG

- Pin 2 - Do Not Use<sup>b</sup>
- 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<sup>c</sup>

Peak Inverse Plate Voltage <sup>a</sup> . . . . .	5000	volts
Peak Plate Current . . . . .	1200	ma
DC Plate Current . . . . .	200	ma
Plate Dissipation . . . . .	6.5	watts

#### Characteristics, Instantaneous Value:

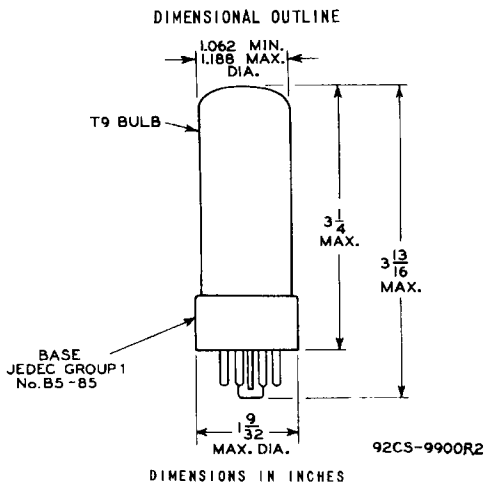
Tube Voltage Drop for plate ma = 400 . . . . .	35	volts
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<sup>a</sup> This rating is applicable when the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30 frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.



# 17DM4A

- b Socket terminals 1,2,4 and 6 should not be used as tie points.  
c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.



## AVERAGE PLATE CHARACTERISTIC

