Half-Wave Vacuum Rectifier

For Television Damper Service

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC).......................... 6.3 volts
Current .................................... 1.2 amp
Direct Inter electrode Capacitances (Approx.):*:
Plate to cathode and heater .............. 6 µf
Cathode to plate and heater ................ 13 µf
Heater to cathode ........................... 7 µf

Mechanical:
Operating Position .......................... Any
Maximum Overall Length ...................... 3-5/16"
Maximum Seated Length ..................... 2-3/4"
Maximum Diameter .......................... 1-9/32"
Dimensional Outline ........................ See General Section
Bulb ......................................... T9
Bases (Alternates):
Intermediate-Shell Octal:
6-Pin, Arrangement 1 (JEDEC Group 1, No.B6-8)
5-Pin, Arrangement 2 (JEDEC Group 1, No.B5-82)
Short Intermediate-Shell Octal with External Barriers:
6-Pin, Arrangement 1 (JEDEC Group 1, No.B6-60)
5-Pin, Arrangement 2 (JEDEC Group 1, No.B5-85)
Basing Designation for BOTTOM VIEW ............. 4CG

Pin 1b - Same as Pin 2
Pin 2 - Internal Connection 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 systemd

PEAK INVERSE PLATE VOLTAGE
(Absolute maximum)e .................... 3850f max. volts

PEAK PLATE CURRENT ................. 750 max. ma

DC PLATE CURRENT ..................... 12g max. ma

PLATE DISSIPATION .................... 3.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode. 2300d max. volts
Heater positive with respect to cathode. 300h max. volts

* Indicates a change.
Characteristics, Instantaneous Value:
Tube Voltage Drop for plate ma. = 250. . . . 21 volts

a) Without external shield.

b) On the 5-pin bases, pin 1 as well as pins 4 and 6 is omitted.

c) Socket terminals 1, 2, 4 and 6 should not be used as tie points.


e) 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.

f) Under no circumstances should this absolute-maximum value be exceeded.

g) The dc component (Absolute maximum) must not exceed 500 volts.

h) The dc component must not exceed 100 volts.