# Half-Wave Vacuum Rectifier

## **DUODECAR TYPE**

#### **GENERAL DATA**

_		•			•	
	lec	•	- :	^ 4	ı I	•
Е.	ロロレ	L		LC		•

Heater Characteristics and Ratings (Design-Maximum Valu	es):						
Voltage (AC or DC)	volts						
Current at heater volts = 2.5 0.300	amp						
Direct Interelectrode Capacitance							
(Annrox.):a							

Plate to cathode & internal

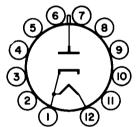
shield & heater . . 1.4 pf

# Mechanical:

Operating Position	y .
Type of Cathode Coated Unipotentia	1
Maximum Overall Length	
Seated Length 2.750" to 3.000	
Diameter 1.062" to 1.188	!!
Bulb	
Cap	r

Small With Tubular Support (JEDEC No.C1-34)
. . .Small-Button Duodecar 12-Pin (JEDEC No.E12-70) Basing Designation for BOTTOM VIEW. .

Pin 1 - Cathode. Internal Shield. Heater Pin 2 - Do Not Useb Pin 3 - Do Not Useb Pin 4 - See NOTE Pin 5 - Do Not Useb



6 - Do Not Useb Pin 7-Do Not Use**b** Pin 8 - Do Not Useb Pin Pin 9 - Do Not Useb Pin 10 - See NOTE Pin 11 - Do Not Useb

Pin 12 - Heater Cap - Plate

NOTE: May be used only under conditions specified in Operating Considerations.

#### PULSED-RECTIFIER SERVICE

# Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system<sup>C</sup>

INVERSE PLATE VOLTAGE:

Total dc and peak <sup>d</sup> .						30000	max.	volts
DC						24000	max.	volts
PEAK PLATE CURRENT						80	max.	ma
AVERAGE PLATE CURRENT						1.5	max.	ma

#### Characteristics. Instantaneous Value:

Tube Voltage Drop for plate ma. = 7 . . .100 volts

As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.



Without external shield.

Socket terminals 2,3.5,6,7.8,9, and 11 should not be used as tie points.

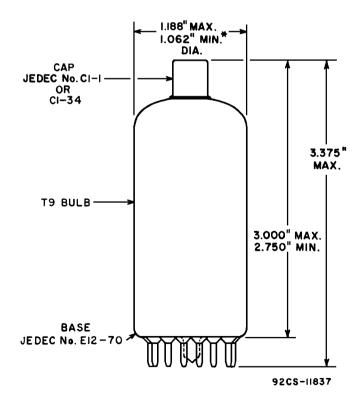
This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

## OPERATING CONSIDERATIONS

Socket Connections. Socket terminals 4 and 10 may be used as tie points for components at or near the cathode potential; otherwise, do not use.

The high voltages at which the 2AH2 is operated are very dangerous. Great care should be taken in the design of apparatus to prevent the operator from coming in contact with these high voltages. Particular care against fatal shock should be taken in the measurement of filament voltage. Under all circumstances, circuit parts which may be at high potentials should be enclosed or adequately insulated.

X-radiation. The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce X-radiation which can constitute a health hazard unless such tubes are adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered in equipment design.



\* APPLIES TO MINIMUM DIAMETER EXCEPT IN AREA OF SEAL.

