7

12

12GV

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

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# Half-Wave Vacuum Rectifier

### **ELECTRICAL**

Bogey	Values
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Filament (Coated) Voltage, AC or DC	1.25 V	1
Filament Current	0.2 A	l
Direct Interelectrode Capacitance (Approx.)		
Without external shield		
Plate to filament	1.6 pF	:

#### MECHANICAL

operating Position					Any
Type of Cathode			 	Coated	Filament
Maximum Overall Length					3.125 in
Seated Length				2.500 to	2.750 in
Diameter					
Dimensional Outline (JEDEC N	lo.9-	-98).		See General	Section
Envelope					JEDEC T9
Caps (Alternates)					

Small (JEDEC No.C1-1)

arating Desition

Small with Tubular Support (JEDEC No.C1-34)

Small-Button Duodecar 12-Pin (JEDEC No.E12-70) TERMINAL DIAGRAM (Bottom View)

1-Filament, Internal Shield Pin

2 - Do Not Use**a** Pin Pin

3 - Do Not Usea

Pin 4 - See Note

Pin 5 - Do Not Usea Pin 6 - Same as Pin 1

Pin 7 - Do Not Use**a** 

8-Do Not Usea Pin

Pin 9 - Do Not Use**a** 

Pin 10 - See Note Pin 11 - Do Not Usea

Pin 12 - Filament

Cap - Plate

## PULSED-RECTIFIER SERVICE Design-Maximum Ratings

For operation in a 525-line, 30-frame system Inverse Plate Voltage

inverse rrate vortage	
Total dc and peak D	٧
DC	٧
Peak Plate Current 50	mΑ
Average Plate Current 0.5	mΑ
Filament Voltage, AC or DC 1.05 to 1.45	٧

Characteristics, Instantaneous Value

Tube Voltage Drop for plate mA = 7 ...225

Socket terminals 2, 3, 5, 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. ► Indicates a change



#### 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 IAD2 is operated are very dangerous. Great care should be taken in the design of equipment 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.

The voltages employed in some television X-Radiation. 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.

