Half-Wave Vacuum Rectifier

ELECTRICAL

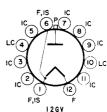
bogey values	
Filament (Coated) Voltage, AC or DC	1.2
Filament Current	0.
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Without external shield	
Plate to filament	=
MECHANICAL	
Operating Position	,
Type of Cathode	Ł
Maximum Overall Length	1
Seated Length 2.500 to 2.750 ir	ı
Diameter	ì
Dimensional Outline (JEDEC No.9-98) See General Section	i
Envelope JEDEC TS	,
Caps (Alternates)	
Small (JEDEC No.C1-1)	
Small with Tubular Support (JEDEC No.C1-34)	
Base Small-Button Duodecar 12-Pin (JEDEC No.E12-70)	,

TERMINAL DIAGRAM (Bottom View) Pin 1-Filament, Internal Shield Pin 2 - Do Not Usea 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 Pin 8 - Do Not Usea Pin 9 - Do Not Usea Pin 10 - See Note Pin 11 - Do Not Usea

Pin 12 - Filament

Cap - Plate



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

PULSED-RECTIFIER SERVICE Design-Maximum Ratings

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

Total dc and peak b									26000	٧
DC									22000	٧
Peak Plate Current	٠								50	mΑ
Average Plate Current	•	٠					•		0.5	mΑ
Filament Voltage, AC or DC				٠		١.	.05	i to	1.45	٧

Characteristics, Instantaneous Value

Tube Voltage Dr	p for pl	ate mA =	7			225	٧
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Socket termineds 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.

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.