1.6 pF

Half-Wave Vacuum Rectifier

ELECTRICAL

Bogey Values

Filament (Coated) Voltage, AC or DC	1.25	٧
Filament Current	0.2	A
Without external shield		
Plate to filament	1.6	ρF

MECHANICAL

Operating Position		 Any
Type of Cathode		 Coated Filament
Maximum Overall Length		 3.125 in
Seated Length		 . 2.500 to 2.750 in
Diameter		 . 1.062 to 1.188 in
Dimensional Outline (JEDEC	No.9-98)	 .See General Section
Envelope		 JEDEC T9
Cans (Alternates)		

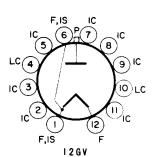
Caps (Alternates)
Small (JEDEC No.C1-1)

Cap - Plate

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

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

	TEMPTIME DIAGRAM (
Pin	1-Filament, Internal Shiel
	2-Do Not Use a
Pin	3-Do Not Use a
Pin	4 - See Note
Pin	5 — Do Not Use a
Pin	6-Same as Pin 1
Pin	7-Do Not Use a
Pin	8-Do Not Use a
Pin	9-Do Not Use a
Pin	10 - See Note
Pin	11 - Do Not Use a
Pin	12 - Filament



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 ^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	

a Socket terminals 2, 3, 5, 7, 8, 9, and 11 should not be used as tie points. Socket terminals 2, 3, 5, 4, 6, 7, and it should not be used as pulse does not find the solution of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line 30-frame exceed 15 per cent of one horizontal scanning cycle is 10 microseconds.

Indicates a change.

Tube Voltage Drop for plate mA = 7

225

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.