Half-Wave Vacuum Rectifier

	Electrical:		
	Heater Characteristics and Ratings: Voltage (AC or DC)2.5 \pm 0.4 Current at heater volts = 2.50.330 Direct Interelectrode Capacitance (Approx.): ^a P to (K + IS + H) 1.4	volts amp pf	
	Mechanical:		
(Operating Position. Type of Cathode Coated Unipot Maximum Overall Length	3.625" 3.250" 1.188" T9 -1) or C1-34) 12-70)	
	Pin 1-Heater, Cathode		
	Pin 1 - Heater, Cathode, Internal Shield Pin 2 - Same as Pin 1 Pin 3 - Do Not Use ^b Pin 4 - See Note Pin 5 - Do Not Use ^b Pin 6 - Same as Pin 1 Pin 7 - See Note Pin 8 - Do Not Use ^b Pin 9 - Same as Pin 1 Pin 10 - See Note Pin 11 - Do Not Use ^b 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 ^C		
	Inverse Plate Voltage: Total dc and peak ^d	volts volts volts volts	
	Characteristics, Instantaneous Value:		
\sim	Tube Voltage Drop for plate ma. = 7 100	volts	

a without external shield.
b Socket terminals 3, 5, 8, and 11 should not be used as tie points.



2AS2

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

d 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, 7, 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 2AS2 is operated are very dangereous. 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 heater voltage. Under all circumstances, circuit parts which may be 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.

