Half-Wave Vacuum Rectifier

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:

1

mverse rate vortage.							
Total dc and peak ^d .						30000 max.	volts
DC						24000 max.	volts
Peak Plate Current							
Average Plate Current							volts

Characteristics, Instantaneous Value:

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

b Socket terminals 3, 5, 8, and 11 should not be used as tie points.



a Without external shield.

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

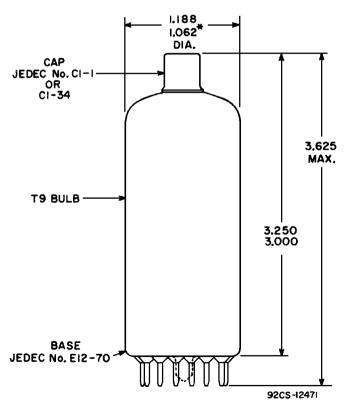
d
This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

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.



DIMENSIONS IN INCHES

^{*} Applies to minimum diameter except in area of seal.

