

Half-Wave Vacuum Rectifier

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	2.5 ± 0.4	volts
Current at heater volts = 2.5	0.330	amp
Direct Interelectrode Capacitance (Approx.): ^a		
P to (K + IS + H)	1.4	pf

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	3.625"
Seated Length	3.000" to 3.250"
Diameter	1.062" to 1.188"
BulbT9
Cap	Small (JEDEC No.C1-1) or Small With Tubular Support (JEDEC No.C1-34)
Base	Small-Button Duodecap 12-Pin (JEDEC No.E12-70)
Basing Designation for BOTTOM VIEW	12EW

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

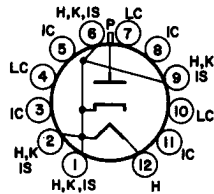
Pin 9 - Same as Pin 1

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	30000 max.	volts
DC	24000 max.	volts
Peak Plate Current	80 max.	volts
Average Plate Current	1.5 max.	volts

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma. = 7	100	volts
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^a without external shield.

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



2AS2

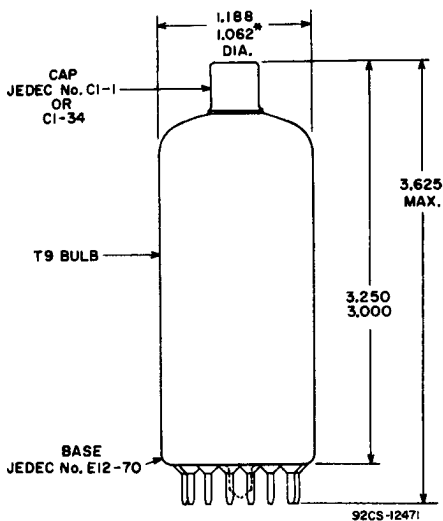
- c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
- d This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 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.

This high voltages at which the 2AS2 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 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.