

# 6AY3B

## Half-Wave Vacuum Rectifier

### NOVAR TYPE For Television Damper Service

#### Electrical:

##### Heater Characteristics and Ratings:

Voltage (AC or DC) . . . . . 6.3 ± 0.6 volts  
Current at heater volts = 6.3 . . . . . 1.200 amp

##### Peak heater-cathode voltage:

Heater negative with respect to cathode<sup>a</sup> . . . . . 5000<sup>b</sup> max. volts

Heater positive with respect to cathode . . . . . 300<sup>c</sup> max. volts

##### Direct Interelectrode Capacitances (Approx.):<sup>d</sup>

P to (K,H) . . . . . 6.5 pf

K to (P,H) . . . . . 9.0 pf

Heater to cathode. . . . . 2.8 pf

#### Mechanical:

Operating Position . . . . . Any

Type of Cathode . . . . . Coated Unipotential

Maximum Overall Length . . . . . 3.005"

Seated Length. . . . . 2.375" to 2.625"

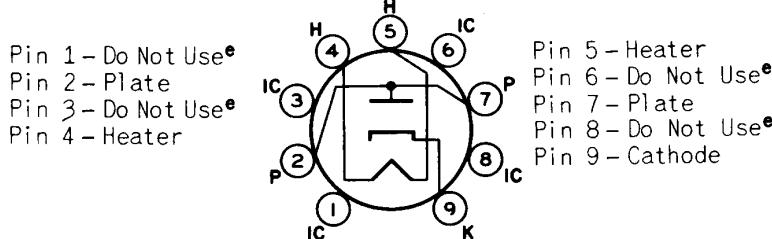
Dimensional Outline. . . . . See General Section

Diameter . . . . . 1.062" to 1.188"

Bulb . . . . . T9

Base . . . . . Small-Button Novar 9-Pin with Exhaust Tip  
(JEDEC No. E9-89)

Basing Designation for BOTTOM VIEW . . . . . 9HP



#### DAMPER SERVICE

For operation in a 525-line, 30-frame system<sup>f</sup>

##### Maximum Ratings, Design-Maximum Values:

Peak Inverse Plate Voltage<sup>a</sup> . . . . . 5000 max. volts

Peak Plate Current . . . . . 1100 max. ma

Average Plate Current. . . . . 175 max. ma

Plate Dissipation. . . . . 6.5 max. watts

##### Characteristic, Instantaneous Value:

Tube Voltage Drop for plate ma = 350 . . . . . 32 volts



RADIO CORPORATION OF AMERICA  
Electronic Components and Devices

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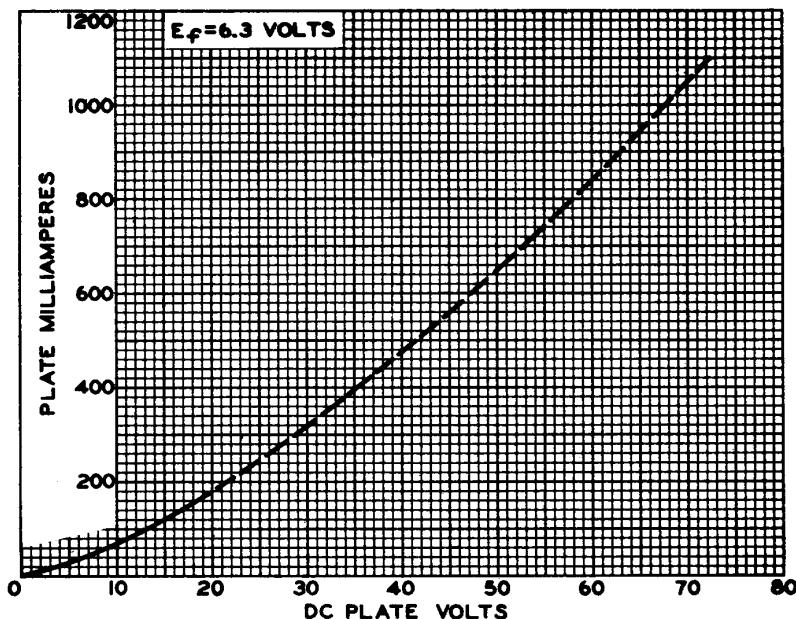
- a This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- b The dc component must not exceed 900 volts.
- c The dc component must not exceed 100 volts.
- d Without external shield.
- e Socket terminals 1, 3, 6, and 8 should not be used as tie points. It is recommended that the socket clips for these pins be removed to reduce the possibility of arc-over and to minimize leakage.
- f As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.



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AVERAGE PLATE CHARACTERISTIC



92CS-9884



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Electron Tube Division

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