

# 6BH3A

## 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 . . . . . 1.600 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode<sup>a</sup>. . . . . 5500<sup>b</sup> max. volts  
 Heater positive with respect to cathode . . . . . 300<sup>c</sup> max. volts

Direct Interelectrode Capacitances

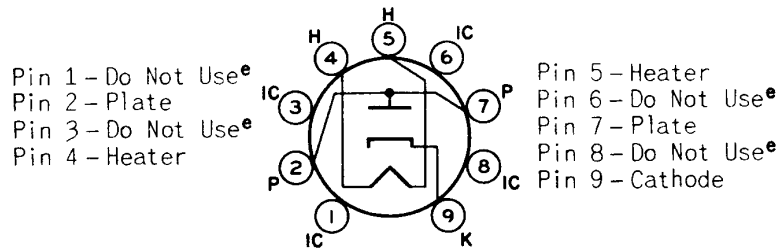
(Approx):<sup>d</sup>

P to (H,K) . . . . . 6.5 pf  
 K to (P,H) . . . . . 9.0 pf  
 Heater to cathode. . . . . 2.8 pf

### Mechanical:

Mounting Position. . . . . Any  
 Type of Cathode. . . . . Coated Unipotential  
 Maximum Overall Length . . . . . 3.005"  
 Seated Length. . . . . 2.375" to 2.625"  
 Diameter . . . . . 1.062" to 1.188"  
 Dimensional Outline. . . . . See *General Section*  
 Bulb . . . . . T9  
 Socket . . . . . Novar 9-Contact  
 Base . . . . . Small-Button Novar 9-Pin with Exhaust  
 (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>. . . . . 5500 max. volts  
 Peak Plate Current . . . . . 1100 max. ma  
 Average Plate Current. . . . . 180 max. ma  
 Plate Dissipation. . . . . 6.8 max. watts

#### Characteristic, Instantaneous Value:

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



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- a This rating is applicable when the duty cycle 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.

