

# 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

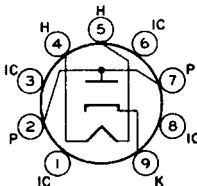
(Approx):<sup>d</sup>

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 <i>General Section</i>
Bulb . . . . .	. . . . .	T9
Socket . . . . .	. . . . .	Novar 9-Contact
Base . . . . .	Small-Button Novar 9-Pin with Exhaust	(JEDEC No. E9-89)
Basing Designation for BOTTOM VIEW . . . . .	. . . . .	9HP

Pin 1 - Do Not Use<sup>e</sup>  
Pin 2 - Plate  
Pin 3 - Do Not Use<sup>e</sup>  
Pin 4 - Heater



Pin 5 - Heater  
Pin 6 - Do Not Use<sup>e</sup>  
Pin 7 - Plate  
Pin 8 - Do Not Use<sup>e</sup>  
Pin 9 - Cathode

## 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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# 6BH3A

- 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.

