Novar Type For Black-and-White-TV Damper Diode Applications **ELECTRICAL CHARACTERISTICS - Bogey Values** V Heater Voltage, ac or dc Eh 6.3 Heater Current Ih 1.2 Α Direct Interelectrode Capacitances: Plate to cathode and heater . . . 6.5 pF $c_{p(k+h)}$ Cathode to plate 9.0 pF and heater ck(p+h) 3.0 Heater to cathode pF c_{hk} Instantaneous Tube Voltage Drop for instantaneous plate current $(i_b) = 350 \text{ mA} ...$ 16 V MECHANICAL CHARACTERISTICS Maximum Overall Length (lm) 3.410in.(86.61 mm) Maximum Seated Length (lsm) 3.030in. (76.96 mm) Maximum Diameter (d_m) 1.188in.(30.1 mm) Envelope JEDEC Designation T9

Half-Wave Vacuum Rectifier

Receivers utilizing a 525-line, 30-frame system		
Peak Inverse Plate Voltagee _{bm}	5200 e	
Heater-Cathode Voltage: Peakehkm	(+ 300) - 5200	
1 cak hkm	- 5200	

MAXIMUM RATINGS - Design-Maximum Values^c

For operation as a Damper Tube in Black-and-White-TV

Baseb Small-Button Novar 9-Pin with Exhaust Tip

(JEDEC Designation E9-89)

	nkm	\ - 5200	V
Averagef	Ε.,.	\begin{cases} + 100 \\ - 900 \end{cases}	V
	nk(av)	\ - 900	v
Heater Voltage	$\mathbf{E_h}$	5.7 to 6.9	V

Terminal Connections

V v

Plate Current:

Peak	i bm	1200 250	mA mA
Plate Dissipation	P_{b}	6.5	W
Envelope Temperature (at hot- test point on envelope surface)	$\mathtt{T_E}$	220	$^{\mathrm{o}}\mathrm{C}$

^aMeasured without external shield in accordance with the current issue of EIA Standard RS-191.

OPERATING CONSIDERATIONS

Socket terminals 1, 3, 6, and 8 should not be used as tie points for external-circuit components. It is recommended that these socket tabs be removed to reduce the possibility of arc-over and to minimize leakage.

TERMINAL DIAGRAM (Bottom View)

Pin 1 - Do Not Use

Pin 2 - Plate

Pin 3 - Do Not Use

Pin 4 - Heater

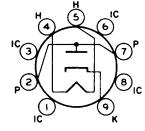
Pin 5 - Heater

Pin 6 - Do Not Use

Pin 7 - Plate

Pin 8 - Do Not Use

Pin 9 - Cathode



JEDEC 9HP

^bDesigned to mate with Novar 9-Contact Socket generally available from your local RCA Distributor.

cAs defined in the current issue of EIA Standard RS-239.

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

This rating is applicable when the duration of the voltage pulse does not exceed 15% of one horizontal scanning cycle. In a 52 line, 30-frame system, 15% on one horizontal scanning cycle is $10 \, \mu s$.

[†]Measured with a dc meter.