

Half-Wave Vacuum Rectifier

NOVAR TYPE

PRESSURE-WELDED CATHODE COATING

For Color-TV Damper-Diode Applications

ELECTRICAL CHARACTERISTICS

Bogey Values

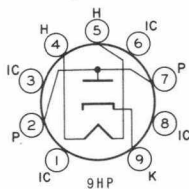
Heater Voltage (AC or DC)	E_h	6.3	V
Heater Current	I_h	1.2	A
Direct Interelectrode Capacitances			
Without external shield			
Plate to cathode and heater	$C_p(k+h)$	6.5	pF
Cathode to plate and heater	$C_k(p+h)$	9.0	pF
Heater to cathode	C_{h-k}	3.0	pF
Instantaneous Tube Voltage Drop	e_b	16	V
For instantaneous plate current (i_b) = 350 mA			

MECHANICAL CHARACTERISTICS

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	3.005 in
Maximum Seated Length	2.625 in
Maximum Diameter	1.188 in
Dimensional Outline	See General Section
Envelope	T9
Base	Small-Button Novar 9-Pin with Exhaust Tip (JEDEC E9-89)

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



DESIGN-MAXIMUM RATINGS

For operation as a Damper Tube in Black-and-White TV Receivers utilizing a 525-line, 30-frame system

Peak Inverse Plate Voltage	$-e_{bm}$	5500 ^a	V
Heater-Cathode Voltage			
Peak	e_{hkm}	$\begin{cases} +300 \\ -5500 \end{cases}$	 V V
Average ^b	$E_{hk(av)}$	$\begin{cases} +100 \\ -900 \end{cases}$	 V V
Heater Voltage (AC or DC)	E_h	5.7 to 6.9	V



Plate Current

Peak.	i_{bm}	1300	mA
Average ^b	$I_b(av)$	250	mA
Plate Dissipation	P_b	8.5	W
Envelope Temperature.	T_E	220	°C
At hottest point on envelope surface			

^a This rating is applicable when the duration of the voltage pulse does not exceed 15% of one horizontal scanning cycle. In a 525-line, 30-frame system, 15% of one horizontal scanning cycle is 10 μ s.

^b Measured with a dc meter.

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.

