

Half-Wave Vacuum Rectifier

NOVAR TYPE

"PRESSURE-WELDED" CATHODE COATING

For Color-TV Damper-Diode Applications

ELECTRICAL CHARACTERISTICS

Bogey Values

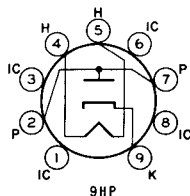
Heater Voltage (AC or DC)	E_h	6.3	V
Heater Current	I_h	2.4	A
Direct Interelectrode Capacitances			
Without external shield			
Plate to cathode and heater	$c_p(k+h)$	20	pF
Cathode to plate and heater	$c_k(p+h)$	18	pF
Heater to cathode	c_{h-k}	4.0	pF
Instantaneous Tube Voltage Drop	e_b	10	V
For instantaneous plate current			
$(i_b) = 350 \text{ mA}$			

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 Color TV
Receivers utilizing a 525-line, 30-frame system*

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



6CM3

Plate Current

Peak	i_{bm}	1700	mA
Average	$i_{b(av)}$	400	mA
Plate Dissipation	P_b	12	W

^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.

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.

