

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

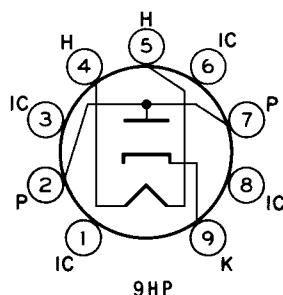
 $(i_b) = 350 \text{ mA}$

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}	$\begin{cases} +300 \\ -5500 \end{cases}$	$\begin{matrix} V \\ V \end{matrix}$
Average	$E_{hk(av)}$	$\begin{cases} +100 \\ -900 \end{cases}$	$\begin{matrix} V \\ V \end{matrix}$
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.

