Half-Wave Vacuum Rectifier

For Color-TV Damper-Diode Applications

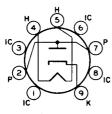
ELECTRICAL CHARACTERISTICS - Bogey Values			
Heater Voltage, ac or dc	$\mathbf{E_{h}}$	6.3	v
Heater Current	I _h	1.8	Α
Direct Interelectrode	•		
Capacitances: a			
Plate to cathode and heater .	c _{p(k+h)}	13	pF
Cathode to plate and heater .	ck(p+h)	16	рF
Heater to cathode	ch-k	4.0	pF
Instantaneous Tube Voltage			
Drop for instantaneous			
plate current $(i_b) = 700 \text{ mA}$	$^{ m e}$ b	25	V
MECHANICAL CHARACTERISTICS			
Maximum Overall Length	_		
Maximum Seated Length			
Maximum Diameter			
Envelope JEDEC T9			
Base Small-Button Novar 9-Pin with Exhaust Tip			
(JEDEC E9-89)			
Terminal Diagram JEDEC 9HP			
Type of Cathode Coated Unipotential			
Operating Position			
MAXIMUM RATINGS — Design-Maximum Values ^c			
For operation as a Damper Tube in Color-TV Receivers			
utilizing a 525-line, 30-frame system			
Peak Inverse Plate Voltagee	bm	5500 d	V
Heater-Cathode Voltage:			
Peak e ₁	.1	5 +300	V
	e _{hkm}) -5500	V
Average E	hk(av)	ر +100	v
		} -900	V
Heater Voltage, ac or dc E. Plate Current:	h	5.7 to 6.9	v
·		0100	
	om	2100	mA
	o(av)	350 6.5	mA W
Plate Dissipation Plate Dissipation Plate Dissipation Plate Dissipation	b	0.0	**
hottest point on envelope			
surface) T	T.	220	$^{ m o}{ m C}$
	12		

- Measured without external shield in accordance with the current issue of EIA Standard RS-191.
- b Designed to mate with Novar 9-Contact Socket generally available from your local RCA Distributor.
- c As defined in the current issue of EIA Standard RS-239.
- d 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 μs .
- · 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 the socket tabs be removed to reduce the possibility of arc-over and to minimize leakage.

TERMINAL DIAGRAM (Bottom View)



JEDEC 9HP

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