

Half-Wave Rectifier

9-Pin Miniature Type

$$i_{bm} = 1200 \text{ max. mA}$$

$$P_b = 4.75 \text{ max. W}$$

For Black-and-White and Small-Screen 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: ^a			
Plate to cathode			
and heater.	$c_{p(k+h)}$	12.0	pF
Cathode to plate			
and heater.	$c_{k(p+h)}$	9.5	pF
Heater to cathode	c_{hk}	2.8	pF
Instantaneous Tube Voltage			
Drop for instantaneous			
plate current (i_b) = 350 mA. e_b		16	V

MECHANICAL CHARACTERISTICS

Maximum Overall Length (l_m)	3.125 in (79.37 mm)
Maximum Seated Length (l_{sm})	2.875 in (73.02 mm)
Maximum Diameter (d_m)	0.875 in (22.22 mm)
Envelope.	JEDEC Designation 6-1/2
Base	Small-Button Noval 9-Pin JEDEC Designation E9-1
Terminal Connections	

(See *TERMINAL DIAGRAM*) JEDEC Designation 9RX

Type of Cathode Coated Unipotential

Operating Position Any

MAXIMUM RATINGS - Design-Maximum Values^b

For operation as a Damper Tube in TV Receivers utilizing a
525-line, 30-frame system^c

Peak Inverse Plate Voltage. . $-e_{bm}$	5000 ^d	V
Heater-Cathode Voltage:		
Peak e_{hkm}	{	+300 V
		-5000 V

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Average ^e	$E_{hk(av)}$	$\begin{cases} +100 \\ -900 \end{cases}$	$\begin{matrix} V \\ V \end{matrix}$
Heater Voltage, ac or dc . . .	E_h	5.7 to 6.9	V
Plate Current:			
Peak	i_{bm}	1200	mA
Average ^e	$I_{b(av)}$	250	mA
Plate Dissipation	P_b	4.75	W
Envelope Temperature (at hottest point on envelope surface)			
	T_E	220	°C

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

^b As defined in the current issue of EIA Standard RS-239.

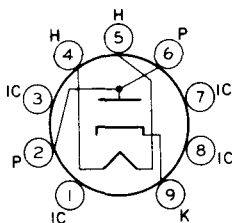
^c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

^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 μ s.

^e Measured with a dc meter.

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 - Plate
- Pin 7 - Do Not Use
- Pin 8 - Do Not Use
- Pin 9 - Cathode



JEDEC 9RX

OPERATING CONSIDERATIONS

Socket terminals 1, 3, 7, 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.