Half-Wave Rectifier

9-Pin Miniature Type

i _{bm} = 1200 max. mA	$P_b = 4.75$ max. W
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For Black-and-White and Small-Screen Color-TV
Damper Diode Applications

ELECTRICAL CHARACTERISTICS - Bogey Values					
Heater Voltage, ac or dc	$\mathbf{E_h}$	6.3	V		
Heater Current	I_h	1.2	Α		
Direct Interelectrode					
Capacitances: a					
Plate to cathode					
and heater $c_{p(k+h)}$	12.0		рF		
Cathode to plate					
and heater $c_{k(p+h)}$	9.5		рF		
Heater to cathode chk	2.8		pF		
Instantaneous Tube Voltage					
Drop for instantaneous					
plate current $(i_b) = 350 \text{ mA}$. 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	oated Ur	iipoter	ıtial		
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					
Peak Inverse Plate Voltagee _{bm}	5000 ^d		V		
Heater-Cathode Voltage:					
Peak e _{hkm}	∫ +300		V		
- · · · · · · · · · · · · · · · · · · ·	(-5000		V		

Average ^e E _{hk(av)}	\begin{cases} +100 \\ -900 \end{cases}	V
== ink(av)	900 (V
Heater Voltage, ac or dc E _h	5.7 to 6.9	V
Plate Current:		
Peak i _{bm}	1200	mA
$Average^{\mathbf{e}}I_{b(av)}$	250	mA
Plate Dissipation Pb	4.75	W
Envelope Temperature (at		
hottest point on envelope		
surface) T _E	220	$^{\rm o}{ m C}$

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

TERMINAL DIAGRAM (Bottom View)

Pin 1 - Do Not Use

Pin 2 - Plate

Pin 3 - Do Not Use

Pin 4 - Heater

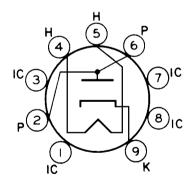
Pin 5 - Heater

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.

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

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.