# Half-Wave Vacuum Rectifier

## 9-PIN MINIATURE TYPE

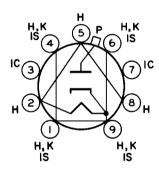
For High-Voltage Rectifier Service in Transistorized TV Receivers

# ELECTRICAL

Heater Characteris	tics	an	d R	at	ng	S					
Voltage (AC)											
Current at 2.30	V				_					0.300	A
										*	
Direct Interelectr	ode (	Capa									
	ode ( shie	Capa eld	ac i	tan	ce	(Ap	pr	ox.	. )		

#### MECHANICAL

Operating Position Any
Type of Cathode Coated Unipotential
Maximum Overall Length 2-27/32 in
Seated Length
Diameter 0.750 to 0.875 in
Dimensional Outline (JEDEC No.6-7) See General Section
Bulb
Cap Skirted Miniature (JEDEC No.Cl-2 or Cl-33)
Base Small-Button Noval 9-Pin (JEDEC No.E9-I)
Basing Designation for BOTTOM VIEW 9RT



## PULSED-RECTIFIER SERVICE

For operation in a 525-line, 30-frame system

	Maximum	Ratings,	Design-Maximum	٧a	lues
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Peak Inverse Plate Voltage <sup>a</sup> Peak Plate Current Average Plate Current											80	mΑ
Characteristic,	j	ns	ta	nt	an.	eo	us	٧	alı	ue		

Tube Voltage Drop for plate mA = 7 . . .

This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 micro-

seconds.

80

## OPERATING CONSIDERATIONS

Socket Connections. The base pins of the 2BJ2 fit the Noval 9-contact socket. Socket terminals 3 and 7 should not be used as tie points for external-circuit components.

The high voltages at which the 2BJ2 is operated are very dangerous. Great care should be taken in the design of equipment to prevent the operator from coming in contact with these high voltages. Particular care against fatal shock should be taken in the measurement of heater voltage. Under all circumstances, circuit parts which may be at high potentials should be enclosed or adequately insulated.

X-radiation. The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce X-radiation which can constitute a health hazard unless such tubes are adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered in equipment design.

