

ELECTRONIC TUBE REFERENCE

6AY3B

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Novar high-voltage half-wave rectifier designed for television horizontal-deflection damper service, with high pulse-current and inverse-voltage capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9HP	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9HP - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	–	IC
PIN2	–	P – Plate (Anode)	CONNECTED
PIN3	–	–	IC
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	–	–	IC
PIN7	–	P – Plate (Anode)	CONNECTED
PIN8	–	–	IC
PIN9	–	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	6.5 W
PEAK INVERSE VOLTAGE	5000 V
NOMINAL OUTPUT CURRENT	175 mA
PEAK FORWARD CURRENT	1.1 A
FORWARD VOLTAGE DROP	32 V
MAXIMUM HEATER-CATHODE VOLTAGE	5000 V
WARM-UP TIME	11 s
<i>Damper-diode PIV/current ratings are preserved as parameters rather than rectifier-specific promoted fields.</i>	

Novar half-wave damper rectifier for television horizontal-deflection circuits. It is a high-voltage half-wave vacuum rectifier intended for CRT horizontal-deflection damper service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	5000 V	—
Steady State Peak Plate Current	1.1 A	—
DC Output Current	175 mA	—
HeaterCathodeVoltageHeaterPositiveDC	100 V	—
HeaterCathodeVoltageHeaterPositiveTotalDCPeak	300 V	—
HeaterCathodeVoltageHeaterNegativeDC	900 V	—
HeaterCathodeVoltageHeaterNegativeTotalDCPeak	5000 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	32 V	PlateCurrent=350mA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode To Plate And Heater Capacitance	9 pF	—
Plate To Cathode And Heater Capacitance	6.5 pF	—
Heater To Cathode Capacitance	2.8 pF	—



1971 RCA HB3 Binder 4 of 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
respect to cathodes b max	5000 V	—
respect to cathode a max	300 V	—
b The dt component must not exceed	900 V	—
c The do component must not exceed o	10 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
P to (K,H)	6.5 pF	—
K to (P,H)	9 pF	—
Heater to cathode	2.8 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage° max	5000 V	—
Peak Plate Current max	1100 mA	—
Average Plate Current max	175 mA	—
Plate Dissipation max	6.5 W	—



SOURCE DATA APPENDIX

1975 RCA RC30

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1975 RCA RC30

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-cathode and heater capacitance	6.5 pF	—
Cathode-to-plate and heater capacitance	9 pF	—
Heater-to-cathode capacitance	2.8 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage	5000 V	DamperService
Peak plate current	1100 mA	DamperService
Average plate current	175 mA	DamperService
Plate dissipation	6.5 W	DamperService
Tube voltage drop	32 V	DamperService

TUBE TINKER

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