

ELECTRONIC TUBE REFERENCE

6DN3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Novar high-voltage half-wave vacuum rectifier designed for color-television horizontal-deflection damper service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9HP	BASE PINS	9
NOMINAL HEATER	6.3 V / 2.4 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	9 W
PEAK INVERSE VOLTAGE	5500 V
NOMINAL OUTPUT CURRENT	350 mA
PEAK FORWARD CURRENT	2.1 A
FORWARD VOLTAGE DROP	14 V
MAXIMUM HEATER-CATHODE VOLTAGE	5500 V
<i>Television damper diode.</i>	

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

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	2.4 A	—
Peak inverse plate voltage	5500 V	DamperService
Peak heater-cathode voltage heater negative	-5500 V	—
Peak heater-cathode voltage heater positive	300 V	—
Average heater-cathode voltage	900 V	—
Peak plate current	2100 mA	DamperService
Average plate current	350 mA	DamperService
Plate dissipation	9 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	14 V	PlateCurrent=350mA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-cathode-and-heater capacitance	13 pF	—
Cathode-to-plate-and-heater capacitance	16 pF	—
Heater-to-cathode capacitance	4 pF	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage	5500 V	DamperService
Peak plate current	2100 mA	DamperService
Average plate current	350 mA	DamperService
Plate dissipation	9 W	DamperService
Tube voltage drop	14 V	DamperService

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-cathode and heater capacitance	13 pF	—
Cathode-to-plate and heater capacitance	16 pF	—
Heater-to-cathode capacitance	4 pF	—

TUBE TINKER

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