

ELECTRONIC TUBE REFERENCE

6CJ3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Novar television damping diode designed for horizontal-deflection circuits in color and monochrome receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9HP	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.8 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	5500 V
NOMINAL OUTPUT CURRENT	350 mA
PEAK FORWARD CURRENT	2.1 A
FORWARD VOLTAGE DROP	25 V
MAXIMUM HEATER-CATHODE VOLTAGE	5500 V
WARM-UP TIME	11 s
<i>TV damper</i>	

Novar type used as a damper tube in horizontal-de- flection circuits of color and black-and-white tele- vision receivers.



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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to cathode and heater	13 pF	—
Cathode to plate and heater C	16 pF	—
Heater to cathode ch_k	4 pF	—
plate current (ib) =	700 mA	Published table column 1 of 2
plate current (ib) =	25 mA	Published table column 2 of 2
Instantaneous Tube Voltage Drop	25 V	At 700 mA instantaneous plate current

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak i _{bm}	2100 mA	—
Average I _{b(av)}	350 mA	—



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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	1.5 pF	Published datasheet value
Grid to Cathode, Heater, and Pentode Grid No	2.4 pF	Published datasheet value
Plate to Cathode, Heater, and Pentode Grid No	1 pF	Published datasheet value
Plate to Cathode, Heater, Grid No	2	Published datasheet value
Pentode Plate to Triode Plate	0.008 pF	Published datasheet value
Heater to Cathode	6.5 pF	Published datasheet value
Plate to Cathode and Heater	6.5 pF	Published datasheet value
Cathode to Plate and Heater	9 pF	Published datasheet value
Heater to Cathode	3 pF	Published datasheet value
Plate to Cathode, Heater, Grid No	3	Published datasheet value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage*	5500 volts	Published datasheet value
Peak Plate Current	2100 mA	Published datasheet value
Average Plate Current	350 mA	Published datasheet value
Plate Dissipation	6.5 watts	Published datasheet value
Tube Voltage Drop for plate current of	25 mA	Published datasheet value
Peak Inverse Plate Voltage#	5500 volts	Published datasheet value
Peak Plate Current	1300 mA	Published datasheet value
Average Plate Current	250 mA	Published datasheet value
Plate Dissipation	8.5 watts	Published datasheet value
Tube Voltage Drop for plate current of	16 mA	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Heater-Cathode Voltage ±	100 volts	Published datasheet value

TUBE TINKER

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and their source documents.

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