

ELECTRONIC TUBE REFERENCE

XY88

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Miniature high-voltage booster diode for transformerless television line-time-base circuits, providing approximately 6 kV inverse-voltage capability and 220 mA average current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9CB	BASE PINS	9
NOMINAL HEATER	20.2 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9CB - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IC	–	–	IC
PIN2 – IC	–	–	IC
PIN3 – IC	–	–	IC
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – IC	–	–	IC
PIN7 – IC	–	–	IC
PIN8 – IC	–	–	IC
PIN9 – P	A	P – Plate (Anode)	CONNECTED
CAP1 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	20 mA
PEAK INVERSE VOLTAGE	6000 V
NOMINAL OUTPUT CURRENT	220 mA
PEAK FORWARD CURRENT	550 mA
<i>Published ratings and characteristics promoted from the approved source.</i>	

Miniature high-voltage booster diode used in line-time-base circuits of transformerless television receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

194X Miniwatt

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

194X MINIWATT

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	6.6 kV	Damper service
Peak Cathode Current	550 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc) 16.4	20.2 V	Published in approved XY88 target datasheet entry; Section1
Heater Current 0.6	450 mA	Published in approved XY88 target datasheet entry; Section1
Peak Heater-Cathode Voltage 6600	6600 V	Published in approved XY88 target datasheet entry; Section1
Supply Voltage at zero current	550 V	Published in approved XY88 target datasheet entry; Section1
Supply Voltage	250 V	Published in approved XY88 target datasheet entry; Section1
Peak Plate Current	550 mA	Published in approved XY88 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Plate Current	220 mA	Published in approved XY88 target datasheet entry; Section1
Plate Dissipation	5 W	Published in approved XY88 target datasheet entry; Section1
* Under no conditions should an absolutemaximum value of	7500 V	Published in approved XY88 target datasheet entry; Section1
# The pulse duration must not exceed	22 %	Published in approved XY88 target datasheet entry; Section1
# The pulse duration must not exceed 22 per cent of a cycle, or a maximum of	18 microseconds	Published in approved XY88 target datasheet entry; Section1

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