

ELECTRONIC TUBE REFERENCE

1BC2A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-voltage television flyback/EHT rectifier designed to convert horizontal-output transformer pulses into the DC accelerating supply required by the CRT.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	1.25 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	0.5 mA
PEAK INVERSE VOLTAGE	18000 V
NOMINAL OUTPUT CURRENT	0.5 mA
PEAK FORWARD CURRENT	45 mA
FORWARD VOLTAGE DROP	80 V
High-voltage flyback/pulse rectifier; X-radiation maximum and filament limits preserved as parameters.	

Directly heated miniature half-wave high-voltage flyback rectifier for television picture-tube anode supplies. Electrical ratings and characteristics were taken from the supplied RCA manual excerpt, including the published heater variant where applicable.



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	18000 V	FlybackRectifier
Peak Plate Current	45 mA	—
Average Plate Current	0.5 mA	—
Filament Voltage Minimum	1.05 V	—
Filament Voltage Maximum	1.45 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	80 V	PlateCurrent=7mA
X-Radiation Maximum	0.5 mR/hr	LotSamplingMaximum

TUBE TINKER

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and their source documents.

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