

ELECTRONIC TUBE REFERENCE

3BT2

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-voltage vacuum rectifier designed for television flyback and picture-tube power-supply service. Its specialized construction rectifies horizontal-output pulses to produce the elevated accelerating voltage required by the CRT.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3.15 V / 480 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	38000 V
NOMINAL OUTPUT CURRENT	2.2 mA
PEAK FORWARD CURRENT	110 mA
FORWARD VOLTAGE DROP	70 V
Rectifier section; published ratings/characteristics promoted where clearly attributable.	

3BT2 is a Rectifier vacuum tube documented in the RCA Receiving Tube Manual. The supplied excerpt was reviewed for heater or filament data, physical section arrangement, maximum ratings, electrical characteristics, capacitances, and stated application.

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)	3.15 V	Heater Voltage (ac/dc) 3.15 volts
Heater Current	480 mA	Heater Current 0.48 ampere
Peak Plate Current	110 mA	Peak Plate Current 110 mA
Average Plate Current	2.2 mA	Average Plate Current 2.2 mA
Tube Voltage Drop (Approx.), for plate current of	7 mA	Tube Voltage Drop (Approx.), for plate current of 7 mA 70 volts
Heater Voltage (ac)	3.6 V	Heater Voltage (ac) 3.6 volts
Heater Current	225 mA	Heater Current 0.225 ampere
Peak Plate Current	100 mA	Peak Plate Current 100 mA
Average Plate Current	2 mA	Average Plate Current 2 mA
Tube Voltage Drop for plate current of	11 mA	Tube Voltage Drop for plate current of 11 mA 60 volts
Peak inverse plate voltage	38000 V	Published rectifier rating
Average output/plate current	2.2 mA	Published rectifier operating/rating value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	3.15 V	Rated heater/filament condition
Tube voltage drop	70 V	Published instantaneous characteristic

TUBE TINKER

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and their source documents.

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