ELECTRONIC TUBE REFERENCE

3CA3A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

High-voltage vacuum rectifier for television flyback and picture-tube power-supply service. Its pulse-oriented construction converts horizontal-output transformer energy into the DC accelerating supply 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.	

3CA3A 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

1975 RCA RC30

SOURCE PDF

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

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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