

ELECTRONIC TUBE REFERENCE

2CN3A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Four-second warm-up high-voltage vacuum rectifier for television flyback power supplies. Its controlled warm-up and specialized insulation support picture-tube accelerating-voltage generation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	1.8 V / 900 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	60 V
WARM-UP TIME	4 s
Electrical characteristics of 3CN3A except published 2CN3A heater.	

Four-second warm-up half-wave high-voltage vacuum rectifier; 2-volt heater version of 3CN3A.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	1.8 V	—
Heater current	900 mA	—
Heater warm-up time	4 s	—
Peak inverse plate voltage total DC plus peak	38000 V	PulsedRectifier
Maximum DC component of inverse plate voltage	30000 V	PulsedRectifier
Peak plate current	110 mA	PulsedRectifier
Average plate current	2.2 mA	PulsedRectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	60 V	PlateCurrent=7mA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-heater/cathode/shield capacitance	1.6 pF	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Color/monochrome television high-voltage rectifier	—

TUBE TINKER

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and their source documents.

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