

ELECTRONIC TUBE REFERENCE

3BN2A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Compactron high-voltage rectifier diode for color television. Its specialized construction supports flyback-derived CRT accelerating-voltage supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12FV	BASE PINS	12
NOMINAL HEATER	3.15 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12FV - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN1	–	IS – Internal Screen	CONNECTED
PIN1	–	K – Cathode	CONNECTED
PIN2	–	H – Heater	CONNECTED
PIN2	–	IS – Internal Screen	CONNECTED
PIN2	–	K – Cathode	CONNECTED
PIN3	–	–	IC
PIN5	–	H – Heater	CONNECTED
PIN5	–	IS – Internal Screen	CONNECTED
PIN5	–	K – Cathode	CONNECTED
PIN6	–	H – Heater	CONNECTED
PIN6	–	IS – Internal Screen	CONNECTED
PIN6	–	K – Cathode	CONNECTED

TERMINAL	SECTION	ELEMENT	STATUS
PIN8	—	H – Heater	CONNECTED
PIN9	—	H – Heater	CONNECTED
PIN11	—	—	IC
PIN12	—	H – Heater	CONNECTED
CAP1	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	30000 V
NOMINAL OUTPUT CURRENT	1.7 mA
PEAK FORWARD CURRENT	88 mA
FORWARD VOLTAGE DROP	150 V
WARM-UP TIME	4 s
<i>Promoted from printed flyback-rectifier maximum ratings and average characteristics.</i>	

Heater-cathode Compactron diode for color-TV high-voltage rectifier service, with diffusion-bonded cathode, fast warm-up, built-in X-radiation shielding and controls.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage, DC component	27000 V	FlybackRectifierService
Heater voltage absolute maximum	3.65 V	—
Heater voltage absolute minimum	2.65 V	—
X-radiation output maximum	25 mR/hr	At published maximum-rated operating conditions

TUBE TINKER

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