



ELECTRONIC TUBE REFERENCE

1BY2A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Compactron filamentary television flyback/EHT rectifier that generates CRT accelerating voltage from horizontal-output pulses and incorporates X-radiation shielding for safer high-voltage operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12HZ	BASE PINS	12
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	26000 V
NOMINAL OUTPUT CURRENT	0.5 mA
PEAK FORWARD CURRENT	50 mA
FORWARD VOLTAGE DROP	225 V

The 1BY2-A is a filamentary Compactron diode designed as the high-voltage rectifier in television receivers, primarily for flyback power supplies, with built-in X-radiation shielding.

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 plate voltage DC component	22000 V	FlybackRectifier
Peak inverse plate voltage total DC and peak	26000 V	FlybackRectifier
Steady state peak plate current	50 mA	FlybackRectifier
DC output current	0.5 mA	FlybackRectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	225 V	I _b =7mA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitance	1.6 pF	—