



ELECTRONIC TUBE REFERENCE

1DG3A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Shielded filamentary television flyback/EHT rectifier that generates CRT accelerating voltage from horizontal-output pulses and incorporates shielding to reduce X-radiation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8ND	BASE PINS	8
NOMINAL HEATER	1.25 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	26000 V
NOMINAL OUTPUT CURRENT	0.5 mA
PEAK FORWARD CURRENT	50 mA
FORWARD VOLTAGE DROP	225 V
<i>High-voltage flyback/pulse rectifier; X-radiation maximum and filament limits preserved as parameters.</i>	

Directly heated glass-octal half-wave high-voltage flyback rectifier for television picture-tube anode supplies. Electrical ratings and characteristics were taken from the supplied RCA manual excerpt, including the published heater variant where applicable.



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	1.3 pF	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	26000 V	FlybackRectifier
Peak Plate Current	50 mA	—
Average Plate Current	0.6 mA	—
Filament Voltage Minimum	1.05 V	—
Filament Voltage Maximum	1.45 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	225 V	PlateCurrent=7mA
X-Radiation Maximum	0.5 mR/hr	LotSamplingMaximum

TUBE TINKER

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

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