



ELECTRONIC TUBE REFERENCE

1AY2A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Shielded filamentary television flyback/EHT rectifier that converts horizontal-output pulses into CRT accelerating voltage while incorporating measures to reduce X-radiation during high-voltage operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	2
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	
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	110 V
<i>Absolute maximum total DC+peak inverse plate voltage 26 kV; 110 V approximate drop at 7 mA; X-radiation rating published.</i>	

Directly heated 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	AbsoluteMaximum
Filament Voltage Absolute Maximum	1.45 V	—
Filament Voltage Absolute Minimum	1.05 V	—
X Ray Radiation Maximum	0.5 mR/hr	Within maximum ratings

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	110 V	I _b =7mA DC



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

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	26000 V	FlybackRectifier
Peak Plate Current	50 mA	—
Average Plate Current	0.5 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage Minimum	1.05 V	—
Filament Voltage Maximum	1.45 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	100 V	PlateCurrent=7mA
X-Radiation Maximum	0.5 mR/hr	LotSamplingMaximum

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Filament Capacitance	1.4 pF	—

TUBE TINKER

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