

ELECTRONIC TUBE REFERENCE

1G3GTA

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Shielded filamentary high-voltage television flyback rectifier for CRT accelerating supplies, incorporating X-radiation shielding for operation at elevated EHT potentials.

GENERAL CHARACTERISTICS

BASE DESIGNATION	3C	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

3C - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	–	IC
PIN2 – Pin 2	–	F – Filament	CONNECTED
PIN3 – Pin 3	–	–	IC
PIN5 – Pin 5	–	–	IC
PIN7 – Pin 7	–	F – Filament	CONNECTED
PIN8 – Pin 8	–	–	IC
CAP1 – Top cap	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	26000 V
NOMINAL OUTPUT CURRENT	0.5 mA
PEAK FORWARD CURRENT	50 mA
FORWARD VOLTAGE DROP	100 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	21000 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	100 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

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	—
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