



ELECTRONIC TUBE REFERENCE

3DF3

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

High-voltage television flyback rectifier designed to convert horizontal-output transformer pulses into the DC accelerating supply required by the picture tube.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8MT	BASE PINS	8
NOMINAL HEATER	3.15 V / 480 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	38000 V
NOMINAL OUTPUT CURRENT	2.2 mA
PEAK FORWARD CURRENT	110 mA
FORWARD VOLTAGE DROP	60 V
Promoted from printed flyback-rectifier maximum ratings and average characteristics.	

A vacuum rectifier documented for television or power-supply service.



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	30000 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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to heater/cathode/internal shield capacitance	1.6 pF	—



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Rectifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Direct Interelectrode Capacitance P to (K + IS + H)	1.6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Inverse Plate Voltage	30000 V	AbsoluteMaximum
X-Radiation Maximum	25 mR/hr	At published absolute operating limits
Heater Voltage	2.65–3.65 V	Published nominal and absolute min/max

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Instantaneous Plate Current for Forward Voltage Drop	7 mA	RectifierForwardVoltageDrop=60 V



SOURCE DATA APPENDIX

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
Heater absolute maximum voltage	3.65 V	FlybackRectifier
Heater absolute minimum voltage	2.65 V	FlybackRectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
X-radiation maximum	25 mR/hr	LotSamplingBasis