



ELECTRONIC TUBE REFERENCE

1V2

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Filamentary television flyback/EHT rectifier with exceptionally low filament voltage, designed to rectify horizontal-output pulses into the CRT accelerating supply.

GENERAL CHARACTERISTICS

BASE DESIGNATION	QU	BASE PINS	9
NOMINAL HEATER	0.625 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	8250 V
NOMINAL OUTPUT CURRENT	0.6 mA
PEAK FORWARD CURRENT	11 mA
FORWARD VOLTAGE DROP	135 V
<i>Pulsed high-voltage rectifier.</i>	

1V2 is a high-voltage vacuum rectifier for television power-supply or flyback service. The supplied RCA manual excerpt was reviewed for heater data, physical sections, maximum ratings, electrical characteristics, capacitances, and stated operating conditions.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum inverse voltage	6600 V	TVFlyback; InverseVoltageDCComponent
Maximum DC output current	0.5 mA	TVFlyback; InverseVoltageDCComponent
Maximum peak current	10 mA	TVFlyback; InverseVoltageDCComponent

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward voltage drop	135 V	TVFlyback; InverseVoltageDCComponent; At 7 mA DC

SOURCE OPERATING CONDITIONS

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1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	0.625 V	Nominal
Heater current	300 mA	Nominal



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	25000 V	FlybackRectifier
Average output current maximum	0.5 mA	FlybackRectifier
Application	Television high-voltage rectifier	Section1



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	0.625 V	—
Heater/filament current	300 mA	—
Peak inverse plate voltage total DC plus peak	8250 V	PulsedRectifier
Maximum DC component of inverse plate voltage	6600 V	PulsedRectifier
Peak plate current	10 mA	PulsedRectifier
Average plate current	0.5 mA	PulsedRectifier

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	High-voltage half-wave pulsed rectifier	TelevisionFlyback



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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
Filament Current	300 mA	Filament Current 0.3 ampere
Under no circumstances should the filament voltage be less than	0.525 V	Under no circumstances should the filament voltage be less than 0.525 volt or greater than
Peak Plate Current	11 mA	Peak Plate Current . . 11 mA
Average Plate Current	0.6 mA	Average Plate Current 0.6 mA
# Pulse duration must not exceed 15% of a horizontal scanning cycle (	10 us	# Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).
Filament Voltage (ac)	1.25 V	Filament Voltage (ac) 1.25 volts
Filament Current	200 mA	Filament Current 0.2 ampere
Peak Plate Current	45 mA	Peak Plate Current 45 mA
Tube Voltage Drop for plate current of	7 mA	Tube Voltage Drop for plate current of 7 mA volts
Average output/plate current	0.6 mA	Published section value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	1.25 V	Rated heater condition
Heater current	200 mA	Rated heater condition

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

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