



ELECTRONIC TUBE REFERENCE

6X2

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-voltage television flyback/EHT rectifier, co-designated EY51, designed to convert horizontal-output transformer pulses into the CRT accelerating-voltage supply while minimizing isolated heater-power requirements.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6X2	BASE PINS	—
NOMINAL HEATER	6.3 V / 90 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	3 mA
PEAK INVERSE VOLTAGE	17000 V
NOMINAL OUTPUT CURRENT	3 mA
PEAK FORWARD CURRENT	80 mA
<i>Published ratings and characteristics promoted from the approved source.</i>	

The Ferranti 6X2 is a miniature high-voltage half-wave rectifier for television EHT flyback supplies.

SOURCE OPERATING CONDITIONS

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transformer voltage maximum	5 kV	50HzSine
Inverse plate voltage maximum	17 kV	HighFrequencyOrPulse
DC plate current maximum	0.5 mA	—
Peak plate current maximum	80 mA	Pulse

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	0.8 pF	—

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 peak inverse voltage	17000 V	—
Nominal DC output current	0.2 mA	—
Maximum peak forward current	80 mA	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Ferranti Technical Handbook

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

1961 FERRANTI TECHNICAL HANDBOOK

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum RMS Input Voltage	5000 V	SinusoidalInput
Maximum Rectified Current	3 mA	SinusoidalInput
Peak Inverse Voltage	16000 V	FlybackPulse
DC Output Current	0.5 mA	FlybackPulse

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	90 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	17000 V	HighFrequencyOrPulse
DC output current	3 mA	Continuous
DC output current	6.2 mA	Pulse
Peak plate current	80 mA	Pulse

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage max	14000 volts	PublishedLine: Peak inverse plate voltage max. 14,000 volts
D.C. output current mzX	3 ma	PublishedLine: D.C. output current mzX. 3 ma
Filter input capacitor max	0.1 pF	PublishedLine: Filter input capacitor max. 0.1 pF
Peak inverse plate voltage mex	17000 volts	PublishedLine: Peak inverse plate voltage mex.17,000 volts
impedance min. C	1 megohm	PublishedLine: impedance min. C.1 megohm
D.C. output current nax	6.2 ma	PublishedLine: D.C. output current nax. 6.2 ma
Jrf. fj NN T A O O Y W mputvdii-age	5000 volts	PublishedLine: _'Jrf.:}fj"? NN T A O O Y W mputvdii-age 5000 volts RMS

TUBE TINKER

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