

ELECTRONIC TUBE REFERENCE

DY51

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Television EHT rectifier designed to rectify high-voltage flyback pulses for CRT acceleration. Rated for approximately 15 kV repetitive inverse voltage with very low average DC output and substantial short pulse current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	WireLeaded	BASE PINS	—
NOMINAL HEATER	1.4 V / 550 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	18000 V
NOMINAL OUTPUT CURRENT	0.35 mA
PEAK FORWARD CURRENT	40 mA
Source-published values promoted where directly stated; additional values retained in parameter table.	

High-voltage rectifier diode for the EHT supply of portable television receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving and Amplifying Valves

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

1967 MULLARD RECEIVING AND AMPLIFYING VALVES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output Current	350 μ A	—
Peak Anode Current	40 mA	PulseDuration $\leq$ 10 μ s
Maximum Reservoir Capacitance	2000 pF	—
Peak Inverse Voltage	15000 V	—
Nominal Output Current	0.35 mA	—
Peak Forward Current	40 mA	—
Interelectrode Capacitance Data Published	1	SourceTablePresent

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Cathode Capacitance	0.8 pF	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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

1968 MAZDA BELVU

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	TelevisionEHTRectifier text	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1972 Philips Receiving Tubes

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

1972 PHILIPS RECEIVING TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage Vg	1.4 V	—
Heater current It	550 mA	—
Anode voltage, negative peak 'Vap max	—15 kV	Maximum
Anode voltage, negative peak (abs. max.) 'Vap max	—18 kV	Maximum
Anode current, peak Iap max	—40 mA	Maximum

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to all Ca	0.8 pF	—
Heater voltage (I3 <	—200 uA	Maximum
Heater voltage (Ia >	—200 uA	Maximum
1) Max. duration is 10 % of a line-scanning cycle, but max	—10 usec	Maximum

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage Va	100 V	—
Anode current I	13 mA	—

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode voltage	100 V	—
Typical anode current	13 mA	—
Filter input capacitance maximum	2000 pF	—
Negative peak anode voltage design-centre	15 kV	—
Average anode current maximum	350 uA	—
Peak anode current maximum	40 mA	—

TUBE TINKER

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