



ELECTRONIC TUBE REFERENCE

PY500

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-current series-heater booster diode for color-television horizontal time-base circuits, designed for demanding line-deflection recovery and high repetitive inverse voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9D	BASE PINS	9
NOMINAL HEATER	42 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	11 W
PEAK INVERSE VOLTAGE	5600 V
NOMINAL OUTPUT CURRENT	440 mA
PEAK FORWARD CURRENT	800 mA
MAXIMUM HEATER-CATHODE VOLTAGE	6300 V
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

Efficiency diode for color-television horizontal time-base circuits.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mean Plate Current	440 mA	—
Peak Plate Current	800 mA	Pulse
Peak Plate-Cathode Reverse Voltage	5600 V	Pulse
Peak Heater-Cathode Voltage	6300 V	Pulse



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	42 V	SeriesHeater
Heater current	300 mA	SeriesHeater
Anode current	440 mA	—
Forward resistance	42 ohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-cathode capacitance	13.5 pF	—
Heater-cathode capacitance	3.7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode dissipation	11 W	—
Peak inverse voltage	5.6 kV	Pulse22Percent


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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	42 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	11 W	Published maximum rating
Maximum peak heater-cathode voltage	6.3 kV	Heater negative
Absolute maximum peak inverse voltage	7 kV	Published absolute maximum


SOURCE DATA APPENDIX

1973 Mazda Valves Binder 2

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

1973 MAZDA VALVES BINDER 2
Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	42 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	11 W	Published maximum rating
Maximum peak heater-cathode voltage	6.3 kV	Heater negative

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SOURCE DATA APPENDIX

1999 Philips E-Z

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

1999 PHILIPS E-Z
Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current If	300 mA	Heater current If 300 mA
Anode to cathode Cak	13 pF	Anode to cathode Cak 13 pF
Cathode to heater Ckf	3.7 pF	Cathode to heater Ckf 3.7 pF
Internal resistance (I	440 mA	Internal resistance (I = 440 mA) R; 45.5 Q
Anode dissipation Wo max	11 w	Anode dissipation Wo max. 11 w
Anode current, average Iy max	440 mA	Anode current, average Iy max. 440 mA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to heater voltage, peak kap max	6300 v	Cathode to heater voltage, peak kap max. 6300 v 1

TUBE TINKER

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and their source documents.

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