ELECTRONIC TUBE REFERENCE

PY500A

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Improved PY500-family efficiency diode for color-television line-deflection recovery, combining high current capability with several-kilovolt inverse-voltage withstand.

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

SECTION1 Rectifier

PLATE RESISTANCE	45.5 Ω
MAXIMUM PLATE DISSIPATION	11 W
MAXIMUM CATHODE CURRENT	440 mA
PEAK INVERSE VOLTAGE	7000 V
NOMINAL OUTPUT CURRENT	440 mA
PEAK FORWARD CURRENT	1 A
MAXIMUM HEATER-CATHODE VOLTAGE	6300 V

Published maximum ratings and typical characteristics promoted from the approved source.

High-current efficiency diode for color-television line-deflection recovery service. The supplied French datasheet was translated to English for descriptive output.

SOURCE OPERATING CONDITIONS

1959 Telefunken

SOURCE PDF

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 DATA APPENDIX

SOURCE OPERATING CONDITIONS

1967 Mullard Receiving and Amplifying Valves

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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	**45.5 ohm**	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-cathode capacitance	**13 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
Absolute peak inverse voltage	**7 kV**	Absolute

TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

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

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TeEnSion filAment....….….…… uuseeeieenennenennnnenennennennnnnmnnnnnnnnnnnnnnnne Ü	**42 V**	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Courant fÎlamEnt …… sressecsssseerseveseansssecasensasoreseencoensassonsemencencencenncune JË	**300 mA**	—
reliées au secteur doit être de	**100 Ω**	—
au tube EY	**500 A**	—

TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1972 Philips Receiving Tubes

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1972 PHILIPS RECEIVING TUBES

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	**42 V**	Nominal
HeaterCurrentNominal	**300 mA**	Nominal
Maximum Plate Dissipation	**11 W**	—
Maximum Cathode Current	**440 mA**	—
Maximum Peak Inverse Voltage	**7000 V**	—
PeakForwardCurrent	**1 A**	—
MaximumNegativePeakAnodeVoltageDesignCentre	**5600 V**	Pulse

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	**45.5 ohm**	Typical

SOURCE OPERATING CONDITIONS

1999 Philips E-Z

SOURCE PDF

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	**12.5 pF**	Anode to cathode Cak 12.5 pF
Cathode to heater Cis	**3.1 pF**	Cathode to heater Cis 3.1 pF =«
Internal resistance (I3	**440 mA**	Internal resistance (I3 = 440 mA) Ri 45.5 @

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode dissipation Wy max	**11 W**	Anode dissipation Wy max. 11 W
Anode current, average I max	**440 mA**	Anode current, average I max. 440 mA
During operation, the external resistance between either heater pin of the PYS0	**0 mA**	During operation, the external resistance between either heater pin of the PYS00A

Tube Tinker

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

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