



ELECTRONIC TUBE REFERENCE

AZ1

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated full-wave rectifier for mains-operated power supplies. Its four-volt filament and dual rectifier sections provide conventional moderate-current AC-to-DC conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	4 V / 1.1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE VOLTAGE	500 V
PEAK INVERSE VOLTAGE	300 V
NOMINAL OUTPUT CURRENT	100 mA
<i>Published limits include 2 x 500 V RMS transformer voltage and DC output ratings from 60 to 100 mA depending on transformer voltage.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	300 V
NOMINAL OUTPUT CURRENT	100 mA
<i>Second physical rectifier section; promoted electrical properties populated from identical section.</i>	

Directly heated full-wave rectifier for mains power-supply service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	4 V	Published heater/filament rating
Heater/filament current	1.1 A	Published heater/filament rating

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	300 V	RectifierService
DC output current	100 mA	RectifierService



SOURCE OPERATING CONDITIONS

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1953 RFT Rundfunk Technik

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1953 RFT RUNDFUNK TECHNIK

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	4 V	Published nominal value
Heater or filament current	1.1 A	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rectified output current	120 mA	Published maximum or highest listed value

1953 RFT RUNDFUNK TECHNIK

Section 2 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	4 V	Published nominal value



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195X Tesla

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195X TESLA

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum input filter capacitance	60 uF	CapacitorInputFilter

195X TESLA

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum input filter capacitance	60 uF	CapacitorInputFilter



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195X Tunsgam

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195X TUNSGRAM

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC voltage per anode	500 V	2 x 500 V condition
Maximum DC output current	60 mA	At 2 x 500 V AC, reservoir capacitor 16 uF
Maximum DC output current	75 mA	At 2 x 400 V AC
Maximum DC output current	100 mA	At 2 x 300 V AC



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1963 Mullard

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1963 MULLARD

Section 1 · Rectifier

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Directly heated full-wave mains rectifier	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	4 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC anode voltage per plate maximum at 60 mA	500 V	—
Rectified current maximum at 2x500 V	60 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC anode voltage per plate maximum at 75 mA	400 V	—
Rectified current maximum at 2x400 V	75 mA	—
AC anode voltage per plate maximum at 100 mA	300 V	—
Rectified current maximum at 2x300 V	100 mA	—

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1963 Philips Electron Tubes Handbook V1

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1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC supply voltage per plate maximum	500 V RMS	FullWave
DC output current maximum	60 mA	FullWave
Maximum input capacitor	60 µF	CapacitorInputFilter

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1999 Philips 0-D

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1999 PHILIPS 0-D

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transformer secondary voltage per plate	300 V RMS	—
Maximum DC output current	100 mA	TransformerVoltage=2x300V
Maximum DC output current	75 mA	TransformerVoltage=2x400V
Maximum DC output current	60 mA	TransformerVoltage=2x500V
Maximum filter capacitance	60 uF	—
Minimum series resistance per anode	60 ohm	TransformerVoltage=2x300V
Minimum series resistance per anode	80 ohm	TransformerVoltage=2x400V
Minimum series resistance per anode	100 ohm	TransformerVoltage=2x500V

TUBE TINKER

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