ELECTRONIC TUBE REFERENCE

AZ4

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

Directly heated AZ-series full-wave rectifier for substantial mains power supplies. Rated for approximately 1 kV peak inverse voltage and 200 mA nominal rectified output from a 4 V filament.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	8
NOMINAL HEATER	4 V / 2.3 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Common cathode	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Rectifier

PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	200 mA

Published limits include 2 x 500 V RMS transformer voltage and DC output ratings from 120 to 200 mA depending on transformer voltage.

SECTION2 Rectifier

PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	200 mA

Second physical rectifier section; promoted electrical properties populated from identical section.

Directly heated full-wave rectifier in the AZ series. The supplied Emission Labs sheet was read for filament data, maximum ratings, representative operating points, gm/rp/mu, output conditions, capacitances, and rectifier filter conditions as applicable.

SOURCE OPERATING CONDITIONS

195X Tesla

SOURCE PDF

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

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

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1963 Philips Electron Tubes Handbook V1

SOURCE PDF

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

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	**120 mA**	FullWave
Maximum input capacitor	**60 µF**	CapacitorInputFilter

Section 2 · Rectifier

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
AC supply voltage per plate maximum	**500 V RMS**	FullWave

SOURCE OPERATING CONDITIONS

1999 Philips 0-D

SOURCE PDF

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**
Maximum transformer secondary no-load voltage	**2x500 V RMS**	—
Maximum DC output current	**200 mA**	—
Maximum DC output current	**120 mA**	TransformerVoltage=2x500V
Maximum DC output current	**150 mA**	TransformerVoltage=2x400V
Maximum DC output current	**200 mA**	TransformerVoltage=2x300V
Maximum filter input capacitance	**60 uF**	—

SOURCE OPERATING CONDITIONS

2026 Emission Labs

SOURCE PDF

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

2026 EMISSION LABS

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Filament voltage	**4 V**	—
Filament current	**2.3 A**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum AC input voltage	**300 V RMS**	—
Maximum DC output current	**200 mA**	—
Maximum first capacitor	**60 uF**	—

Tube Tinker

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

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