



ELECTRONIC TUBE REFERENCE

1561

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated Philips high-vacuum full-wave rectifier for power supplies. Its dual rectifier sections provide moderate-current high-voltage rectification without the mercury-vapor characteristics of related industrial types.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 2 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	160 mA
<i>Directly heated full-wave high-vacuum rectifier; the Philips table publishes two AC-voltage/DC-current operating limits.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	160 mA
<i>Physical rectifier section 2; electrical properties populated from the same published ratings applicable to the identical rectifier path.</i>	

The Philips 1561 is a directly heated high-vacuum rectifier.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC no-load voltage per plate	500 V	FullWave
Maximum DC output current	120 mA	FullWave
Maximum AC no-load voltage per plate	350 V	FullWave; AlternateRating
Maximum DC output current	160 mA	FullWave; AtACNoLoadVoltage=350VPerPlate

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC no-load voltage per plate	500 V	FullWave
Maximum DC output current	120 mA	FullWave
Maximum AC no-load voltage per plate	350 V	FullWave; AlternateRating
Maximum DC output current	160 mA	FullWave; AtACNoLoadVoltage=350VPerPlate

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Rectified Output Current	160 mA	—
Peak/AC Input Voltage	1000 V	Source table

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Rectified Output Current	160 mA	—
Peak/AC Input Voltage	1000 V	Source table



SOURCE DATA APPENDIX

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
RMS anode voltage per plate	300 V	—
Maximum DC output current	160 mA	RMSAnodeVoltage=300V
Minimum filter capacitance	32 uF	RMSAnodeVoltage=300V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum series resistance per plate	50 ohm	RMSAnodeVoltage=300V
RMS anode voltage per plate	400 V	—
Maximum DC output current	140 mA	RMSAnodeVoltage=400V
Minimum filter capacitance	32 uF	RMSAnodeVoltage=400V
Minimum series resistance per plate	100 ohm	RMSAnodeVoltage=400V
RMS anode voltage per plate	500 V	—
Maximum DC output current	120 mA	RMSAnodeVoltage=500V
Minimum filter capacitance	60 uF	RMSAnodeVoltage=500V

1999 PHILIPS 0-D

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS anode voltage per plate	300 V	—
Maximum DC output current	160 mA	RMSAnodeVoltage=300V
Minimum filter capacitance	32 uF	RMSAnodeVoltage=300V
Minimum series resistance per plate	50 ohm	RMSAnodeVoltage=300V
RMS anode voltage per plate	400 V	—
Maximum DC output current	140 mA	RMSAnodeVoltage=400V
Minimum filter capacitance	32 uF	RMSAnodeVoltage=400V
Minimum series resistance per plate	100 ohm	RMSAnodeVoltage=400V
RMS anode voltage per plate	500 V	—
Maximum DC output current	120 mA	RMSAnodeVoltage=500V
Minimum filter capacitance	60 uF	RMSAnodeVoltage=500V