



ELECTRONIC TUBE REFERENCE

UY82

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

High-vacuum single-anode half-wave rectifier for 100 mA series-heater equipment. Its 55 V heater supports comparatively high current for transformerless supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	55 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	700 V
NOMINAL OUTPUT CURRENT	180 mA
PEAK FORWARD CURRENT	1.1 A
MAXIMUM HEATER-CATHODE VOLTAGE	550 V
<i>Published ratings and characteristics promoted from the approved source.</i>	

High-vacuum single-anode rectifier for 100 mA series-heater equipment.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Input Voltage	250 V	DC output current 180 mA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	55 V	—
Heater Current	100 mA	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMSInputVoltage	250 V	—
Reservoir Capacitance	60 uF	—



195X Tesla

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
HeaterVoltageNominal	55 V	Nominal
HeaterCurrentNominal	100 mA	Nominal
Rectified Output Current	180 mA	Rectifier



SOURCE DATA APPENDIX

1963 Philips Electron Tubes Handbook V1

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
Maximum peak inverse voltage	700 V	HalfWave
Maximum DC output current	180 mA	HalfWave
Maximum peak cathode/anode current	1100 mA	HalfWave
Maximum heater-cathode voltage	550 V	CathodePositive
Maximum filter capacitance	60 uF	CapacitorInputFilter
AC input voltage	250 V RMS	HalfWave
Minimum series resistance	125 ohm	HalfWave; ACInput=250V
DC output voltage	195 V	HalfWave; ACInput=250V
AC input voltage	240 V RMS	HalfWave

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum series resistance	105 ohm	HalfWave; ACInput=240V
DC output voltage	195 V	HalfWave; ACInput=240V
AC input voltage	220 V RMS	HalfWave
Minimum series resistance	65 ohm	HalfWave; ACInput=220V
DC output voltage	195 V	HalfWave; ACInput=220V
AC input voltage	200 V RMS	HalfWave
Minimum series resistance	30 ohm	HalfWave; ACInput=200V
DC output voltage	195 V	HalfWave; ACInput=200V
AC input voltage	127 V RMS	HalfWave
Minimum series resistance	0 ohm	HalfWave; ACInput=127V
DC output voltage	127 V	HalfWave; ACInput=127V



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
1) Max,	250 V	1) Max, 220 Verr A.C. voltage + max, 250 V D.C. voltage
') Max,	250 V	') Max, 220 Vers A.C. voltage + max, 250 V D,C. voltage

TUBE TINKER

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