



ELECTRONIC TUBE REFERENCE

EY82

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Indirectly heated single-anode rectifier for power-supply service. Its 6.3 V heater and moderate current capability suit receiver, amplifier, and general electronic DC supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9C12	BASE PINS	9
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	850 V
NOMINAL OUTPUT CURRENT	180 mA
PEAK FORWARD CURRENT	1.1 A
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Published section ratings and characteristics promoted where applicable.</i>	

Single-anode rectifier for power-supply service. Indirectly heated Mazda/Belvu receiving tube; descriptive text translated to English from the French source.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 La Radiotechnique

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

1953 LA RADIOTECHNIQUE

Section 1 · Rectifier

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	900 mA	Published nominal value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum transformer RMS voltage	300 V	Single-tube service
Maximum rectifier capacitor	60 uF	Published



SOURCE OPERATING CONDITIONS

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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
Transformer voltage	250 V	—
Rectified current	180 mA	—
Transformer voltage maximum	250 V	—
Inverse plate voltage maximum	700 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current maximum	180 mA	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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195X Tesla

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

195X TESLA

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	300 mA	Published nominal value


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1963 Philips Electron Tubes Handbook V1a

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC input voltage	250 V RMS	TwoTubes; FullWave
DC output voltage	225 V	TwoTubes; FullWave
DC output current	360 mA	TwoTubes; FullWave
Series resistance	75 ohm	PerPlate; ACInput=250V
AC input voltage	280 V RMS	TwoTubes; FullWave
DC output voltage	250 V	TwoTubes; FullWave

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Series resistance	95 ohm	PerPlate; ACInput=280V
AC input voltage	300 V RMS	TwoTubes; FullWave
DC output voltage	268 V	TwoTubes; FullWave
Series resistance	110 ohm	PerPlate; ACInput=300V
Maximum peak inverse voltage	850 V	—
Maximum DC output current	360 mA	TwoTubes; FullWave
Maximum peak current per diode	1.1 A	—
Maximum heater-cathode voltage	450 V	—
Maximum filter capacitance	60 uF	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1968 Mazda Belvu

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1968 MAZDA BELVU

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension filament éoseriesesesnesears onsecsancecsesesscoseenss VE	6.3 V	—
Courant filAment ererresecemaen sacacosececoenme cncaemsecsensencss IĖ	900 mA	—
Tension inverse de crête d'anode Vaier	850 V	—
Courant redressé... - - ... Ired	360 mA	—
Tensmn de crête entre filament et cathode ...r...c0-e... VĖK CT	450 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Courant de crête d'anode (1) I_{aCr}	1.1 A	—
Tension redressée V_{red}	268 V	—
Courant redressé I_{red}	360 mA	—



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
Published electrical datum	900 mA	Heizung : indirekt durch Wechsel- = 900 mA
Published electrical datum	268 v	$V_g = 225\ 250\ 268\ v$
Published electrical datum	360 mA	$I_o = 360\ 360\ 360\ mA$
Published electrical datum	60 μF	$C_{rily} = 60\ 60\ 60\ uF$
Published electrical datum	250 V	$X\ 3+ V = 2x\ 250V, \phi iRp = 2x\ 7502$
Published electrical datum	—	0 00 200 300 I(mA) 400

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical datum	0 Veff	$V_{ir} = \max. 2x300\ Veff$
Published electrical datum	850 V	$V_a\ invp = \max. 850\ V$
Published electrical datum	360 mA	$I_o = \max. 360\ mA$
Published electrical datum	1.1 A	$I_{ap'} = \max. 1,1\ A$
Published electrical datum	60 μF	$C_{rit} = \max. 60\ uF$)
Published electrical datum	100 μF	) When R_y is increased by 10 Q, $C_{rit} = \max. 100\ uF$

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical datum	100 pF	51 Rt est augmenté de 10 @, Crijt = max. 100 pF
Published electrical datum	100 µF	Wenn Ry um 10 Q erhdht wird, ist Crilt = max. 100 uF
Heater voltage	6.3 V	Nominal heater rating
Heater current	900 mA	Nominal heater rating