



ELECTRONIC TUBE REFERENCE

EZ80

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Indirectly heated twin-anode full-wave rectifier for capacitor-input receiver power supplies. Its 6.3 V heater and dual rectifier sections provide moderate-current radio and amplifier DC supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1200 V
NOMINAL OUTPUT CURRENT	90 mA
PEAK FORWARD CURRENT	270 mA
MAXIMUM HEATER-CATHODE VOLTAGE	500 V
Published section ratings and characteristics promoted where applicable.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1200 V
NOMINAL OUTPUT CURRENT	90 mA
PEAK FORWARD CURRENT	270 mA
MAXIMUM HEATER-CATHODE VOLTAGE	500 V
Physical rectifier section 2; identical section values duplicated per physical-section policy.	

Twin-anode full-wave rectifier for capacitor-input receiver power supplies.



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	600 mA	Published nominal value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum rectifier capacitor	50 uF	Published



SOURCE OPERATING CONDITIONS

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1953 RFT Rundfunk Technik

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1953 RFT RUNDFUNK TECHNIK

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transformer voltage maximum	2x350 V	FullWave
DC output current maximum	90 mA	—
Peak plate current maximum	270 mA	—



1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC supply voltage per plate	300 V RMS	CapacitorInputFilter
DC output current	90 mA	CapacitorInputFilter
Maximum input capacitor	50 μ F	CapacitorInputFilter
DC output voltage	310 V	CapacitorInputFilter

[SOURCE DATA APPENDIX](#)

1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMSInputPerAnode	350 V	CapacitorInputFilter
Reservoir Capacitance	50 μ F	CapacitorInputFilter

[SOURCE DATA APPENDIX](#)

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	600 mA	Published nominal value



SOURCE DATA APPENDIX

1961 Ferranti Technical Handbook

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

1961 FERRANTI TECHNICAL HANDBOOK

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum RMS Anode Voltage	350 V	—



SOURCE DATA APPENDIX

1963 Amperex Condensed

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1963 AMPEREX CONDENSED

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC supply voltage per plate	300 V RMS	FullWave
DC output current maximum	90 mA	FullWave
Maximum input capacitor	50 μ F	CapacitorInputFilter
DC output voltage	310 V	FullWave



SOURCE DATA APPENDIX

1963 Philips Electron Tubes Handbook V1a

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1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC input voltage per plate	250 V RMS	CapacitorInputFilter
DC output current	90 mA	CapacitorInputFilter
Minimum series resistance per plate	125 ohm	CapacitorInputFilter
Maximum filter capacitance	50 μ F	CapacitorInputFilter
AC input voltage per plate	275 V RMS	CapacitorInputFilter
DC output current	90 mA	CapacitorInputFilter
Minimum series resistance per plate	175 ohm	CapacitorInputFilter
Maximum filter capacitance	50 μ F	CapacitorInputFilter

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC input voltage per plate	300 V RMS	CapacitorInputFilter
DC output current	90 mA	CapacitorInputFilter
Minimum series resistance per plate	215 ohm	CapacitorInputFilter
Maximum filter capacitance	50 uF	CapacitorInputFilter
AC input voltage per plate	350 V RMS	CapacitorInputFilter
DC output current	90 mA	CapacitorInputFilter
Minimum series resistance per plate	300 ohm	CapacitorInputFilter
Maximum filter capacitance	50 uF	CapacitorInputFilter
Maximum peak anode current	270 mA	—
Maximum heater-cathode voltage	500 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1967 Mullard Receiving and Amplifying Valves

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

1967 MULLARD RECEIVING AND AMPLIFYING VALVES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
hI	600 mA	Published in approved EZ80 target datasheet entry; Section1
I _{out} max	90 mA	Published in approved EZ80 target datasheet entry; Section1
I _a (pk) max. (per anode)	270 mA	Published in approved EZ80 target datasheet entry; Section1
I _{out} 90 90 90	90 mA	Published in approved EZ80 target datasheet entry; Section1



SOURCE OPERATING CONDITIONS

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1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Rectifier

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal or stated operating value
Heater or filament current	600 mA	Published nominal or stated operating value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum rectifier capacitor	50 uF	Capacitor-input filter



SOURCE OPERATING CONDITIONS

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1972 Philips Receiving Tubes

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

1972 PHILIPS RECEIVING TUBES

Section 1 · Rectifier

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	600 mA	Published nominal value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transformer voltage	350 V	Per anode RMS
Maximum DC output current	90 mA	Published

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum input capacitor	50 uF	Capacitor-input filter


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1973 Mazda Valves Binder 2

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

1973 MAZDA VALVES BINDER 2

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	600 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum reservoir capacitor	50 uF	Capacitor-input filter
DC output current	90 mA	250-350 Vrms per anode


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transformer voltage V_{ir}	350 V	Transformer voltage V_{ir} 2x350 VRMS
D.C. current I_0	90 mA	D.C. current I_0 90 mA
Heater voltage V_g	6.3 V	Heater voltage V_g 6.3 V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current I_t	600 mA	Heater current I_t 600 mA
TZ06VET	6 V	TZ06VET
Transformer voltage V_{ir}	350 V	Transformer voltage V_{ir} 2x250 2x275 2x300 2x350 VRMS
D.C. output voltage V_o	360 V	D.C. output voltage V_o 260 285 310 360 V
D.C. current I_y	90 mA	D.C. current I_y 90 90 90 90 mA
Transformer voltage V_{ir} max	350 V	Transformer voltage V_{ir} max. 2x350 VRMS
D.C. current I_y max	9 mA	D.C. current I_y max. 9 mA
peak, k pos k_{ap} max	500 V	peak, k pos k_{ap} max. 500 V
at transformer voltage V_{ir}	350 V	at transformer voltage V_{ir} 2x250 2x275 2x300 2x350 VRMS