



ELECTRONIC TUBE REFERENCE

GZ34

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Indirectly heated twin-anode full-wave rectifier for capacitor- or choke-input supplies. Its five-volt heater, substantial current capability, and low forward drop suit demanding amplifier power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Octal	BASE PINS	8
NOMINAL HEATER	5 V / 1.9 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1500 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	825 mA
FORWARD VOLTAGE DROP	17 V
<i>Representative section for two electrically identical sections.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1500 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	825 mA
FORWARD VOLTAGE DROP	17 V
<i>Second physical rectifier section; promoted electrical properties populated from identical section.</i>	

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

SOURCE OPERATING CONDITIONS

1953 Amperex

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

1953 AMPEREX

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC supply plate-to-plate voltage RMS	1100 V	Published source value
Maximum capacitor-input filter capacitance	60 uF	Published source value
DC output current, capacitor-input filter	250 mA	CapacitorInputFilter
DC output current, choke-input filter	250 mA	ChokeInputFilter

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	5 V	Published nominal value
Heater current	1.9 A	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum rectifier capacitor	60 uF	Capacitor-input service



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 Amperex Hi Fi Brochure

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

1956 AMPEREX HI FI BROCHURE

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Supply Plate-to-Plate RMS Voltage	1100 V	—
Maximum Reservoir Capacitance	60 uF	CapacitorInputFilter
DC Output Current	250 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	550 V RMS	CapacitorInputFilter
DC output current	250 mA	CapacitorInputFilter
Maximum input capacitor	60 µF	CapacitorInputFilter
DC output voltage	610 V	CapacitorInputFilter



1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS Input per Anode	300 V	CapacitorInputFilter
DC Output Current	250 mA	CapacitorInputFilter
Reservoir Capacitance	60 uF	CapacitorInputFilter
Choke Inductance	10 H	ChokeInputFilter



SOURCE DATA APPENDIX

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC supply voltage per plate	550 V RMS	FullWave
DC output current maximum	250 mA	FullWave
Maximum input capacitor	60 µF	CapacitorInputFilter
DC output voltage	610 V	FullWave



SOURCE DATA APPENDIX

1963 Mullard

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

1963 MULLARD

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	5 V	—
Heater Current	1.9 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	1500 V	—
Peak Anode Current	750 mA	—
Maximum Reservoir Capacitance	60 uF	—
RMS Input Voltage per Anode	300 V	CapacitorInputFilter
DC Output Current	250 mA	CapacitorInputFilter; VaRMS=300V
DC Output Voltage	330 V	CapacitorInputFilter; VaRMS=300V
RMS Input Voltage per Anode	400 V	CapacitorInputFilter
DC Output Current	250 mA	CapacitorInputFilter; VaRMS=400V
DC Output Voltage	430 V	CapacitorInputFilter; VaRMS=400V
RMS Input Voltage per Anode	500 V	CapacitorInputFilter
DC Output Current	200 mA	CapacitorInputFilter; VaRMS=500V
DC Output Voltage	560 V	CapacitorInputFilter; VaRMS=500V
RMS Input Voltage per Anode	550 V	ChokeInputFilter
DC Output Current	225 mA	ChokeInputFilter; VaRMS=550V



1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
P.I.V. max	1500 V	Published in approved GZ34.pdf target datasheet; Section1
C max	60 μ F	Published in approved GZ34.pdf target datasheet; Section1
I _{out max} . 250 250 250 250 200	160 mA	Published in approved GZ34.pdf target datasheet; Section1
I _{out max} . 250 250 250 250 250	225 mA	Published in approved GZ34.pdf target datasheet; Section1
ISSUE	2 G	Published in approved GZ34.pdf target datasheet; Section1



SOURCE DATA APPENDIX

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	5 V	Published nominal or stated operating value
Heater or filament current	1.9 A	Published nominal or stated operating value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum rectifier capacitor	60 μ F	Capacitor-input filter

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Choke-input service	TRUE	Published



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TransformerVoltage	450 V RMS	FullWave;PerAnode



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1975 RCA RC30

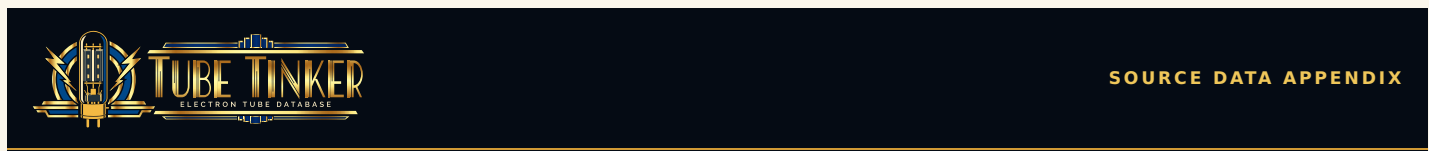
Published test conditions and operating points. Values on this page are preserved as reported by this source.

1975 RCA RC30

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate-to-Plate Supply Voltage (rms)	550 volts	Published value from supplied target entry
EffectivePlate-Supply Impedance per Plate	200 ohms	Published value from supplied target entry
Average Output Current	160 mA	Published value from supplied target entry
Average Output Current	225 mA	Published value from supplied target entry
Tube Voltage Drop for plate current of	225 mA	Published value from supplied target entry

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Output Voltage at Input to Filter	620 volts	Published value from supplied target entry
DC Output Voltage at Input to Filter	465 volts	Published value from supplied target entry



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}	450 V	Transformer voltage V_{ir} 2x450 VRMS
D.C. current I ,	250 mA	D.C. current I , 250 mA
Heater voltage V_{ϕ}	5 V	Heater voltage V_{ϕ} 5 Vv
Heater current I_e	1.9 A	Heater current I_e 1.9 A
Transformer voltage	400 V	Transformer voltage 2x300 2x350 2x400 VRMS
D.C. current	250 mA	D.C. current 250 250 250 mA
Transformer voltage	350 V	Transformer voltage 2x450 2x500 2x350 VRMS
D.C. current	160 mA	D.C. current 250 200 160 mA
Transformer voltage	550 V	Transformer voltage 2x450 2x500 2x550 VRMS
D.C. current	225 mA	D.C. current 250 250 225 mA
peak inverse $V_{a'xnp}$ max	1500 V	peak inverse $V_{a'xnp}$ max. 1500 V
Anode peak current I_{ap} max	750 mA	Anode peak current I_{ap} max. 750 mA
voltage V_{er}	550 V	voltage V_{er} 2x300 2x350 2x400 2x450 2x500 2x550 VRS
peak inverse V_{ainvp} max	1500 V	peak inverse V_{ainvp} max. 1500 V

SOURCE OPERATING CONDITIONS

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2026 Genalex Rebrand

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

2026 GENALEX REBRAND

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DiodePlateCurrent	180–280 mA	Plate 17 V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RectifiedCurrent	180 mA	Transformer secondary 2 x 550 V; load 3000 ohm; cathode-chain capacitance 40 µF
Peak Plate Current	825 mA	—
TurnOnSurgeCurrent	3.7 A	—

SOURCE OPERATING CONDITIONS

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2026 Mullard Rebrand

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

2026 MULLARD REBRAND

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	1.7 A–2.1 A	Published min/max range

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current surge at turn-on	3.7 A	Published limiting value

TUBE TINKER

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