



ELECTRONIC TUBE REFERENCE

5AR4

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Glass-octal full-wave high-vacuum rectifier for television receivers and other equipment with high DC requirements. Indirect heating, substantial current capability, and relatively low forward drop suit demanding power supplies.

GENERAL CHARACTERISTICS

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

5DA - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IC	–	–	IC
PIN2 – H	–	H – Heater	CONNECTED
PIN4 – 2P	A	P – Plate (Anode)	CONNECTED
PIN5 – 1P	A	P – Plate (Anode)	CONNECTED
PIN8 – K	A	K – Cathode	CONNECTED
PIN8 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1700 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	825 mA
FORWARD VOLTAGE DROP	17 V
<i>Representative row for two identical rectifier sections; transient peak current 3.7 A for 0.2 s.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1700 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	825 mA
FORWARD VOLTAGE DROP	17 V
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

Glass octal type used power supplies of television in receivers having high dc requirements. Outlines section, 19D; requires octal socket. This type may be supplied with pins 3, 5, and 7 omitted. Vertical mounting is preferred, but horizontal mounting is permissible if pins 2 and 4 are in vertical plane. It is especially important that this tube, like other power-handling tubes, be adequately ventilated.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

1953 AMPEREX

Section 2 · 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

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 μ F	CapacitorInputFilter
DC output voltage	610 V	CapacitorInputFilter

1958 AMPEREX INDUSTRIAL

Section 2 · 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 μ F	CapacitorInputFilter
DC output voltage	610 V	CapacitorInputFilter



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

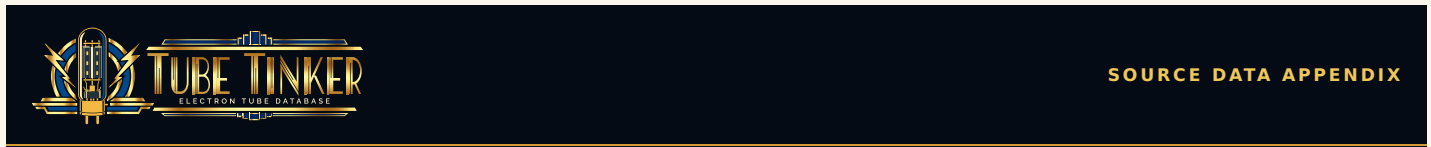
OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC supply voltage per plate	550 V RMS	FullWave
DC output current maximum	250 mA	FullWave

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum input capacitor	60 μ F	CapacitorInputFilter
DC output voltage	610 V	FullWave

1963 AMPEREX CONDENSED

Section 2 · Rectifier

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



SOURCE OPERATING CONDITIONS

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1968 General Electric Co

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1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Supply Voltage Per Plate	450 V	CapacitorInputFilter
TotalPlateSupplyResistancePerPlate	160 ohm	CapacitorInputFilter
DC Output Current	225 mA	CapacitorInputFilter
DC Output Voltage	475 V	CapacitorInputFilter
AC Plate Supply Voltage Per Plate	450 V	ChokeInputFilter
Filter Input Choke	10 H	ChokeInputFilter
DC Output Current	250 mA	ChokeInputFilter
DC Output Voltage	375 V	ChokeInputFilter

1968 GENERAL ELECTRIC CO

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Supply Voltage Per Plate	450 V	CapacitorInputFilter
AC Plate Supply Voltage Per Plate	450 V	CapacitorInputFilter
TotalPlateSupplyResistancePerPlate	160 ohm	CapacitorInputFilter
TotalPlateSupplyResistancePerPlate	160 ohm	CapacitorInputFilter
DC Output Current	225 mA	CapacitorInputFilter
DC Output Current	225 mA	CapacitorInputFilter
DC Output Voltage	475 V	CapacitorInputFilter
AC Plate Supply Voltage Per Plate	450 V	ChokeInputFilter
Filter Input Choke	10 H	ChokeInputFilter
DC Output Current	250 mA	ChokeInputFilter
DC Output Voltage	375 V	ChokeInputFilter



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

1975 RCA RC30

Section 2 · 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



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SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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2026 Sovtek

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

2026 SOVTEK

Section 1 · Rectifier

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RectificationType	FullWave text	Center-tapped midpoint circuit

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RectificationType	FullWave text	Center-tapped midpoint circuit

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