



ELECTRONIC TUBE REFERENCE

5Z3

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated full-wave high-vacuum rectifier electrically related to the 5U4 family but using a different socket arrangement. Its heavy five-volt filament supports substantial power-supply current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4C	BASE PINS	—
NOMINAL HEATER	5 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1550 V
NOMINAL OUTPUT CURRENT	225 mA
PEAK FORWARD CURRENT	675 mA
FORWARD VOLTAGE DROP	58 V
Representative row for identical repeated sections.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1550 V
NOMINAL OUTPUT CURRENT	225 mA
PEAK FORWARD CURRENT	675 mA
FORWARD VOLTAGE DROP	58 V
Second physical rectifier section; electrical properties populated from corresponding identical section.	

Mesh full-wave rectifier electrically identical to 5U4G apart from socket. The supplied Emission Labs sheet was read for filament data, maximum ratings, representative operating points, gm/rp/mu, output conditions, capacitances, and rectifier filter conditions as applicable.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5 V	Section1
Heater/filament current	3 A	Section1
RMS AC voltage per plate maximum	500 V	FullWave
Peak inverse voltage maximum	1400 V	FullWave
DC output current maximum	250 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	61 V	FullWave



SOURCE OPERATING CONDITIONS

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1940 RCA

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

1940 RCA

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	5 V	Published nominal value
Heater or filament current	3 A	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate	500 V	RMS
Peak inverse voltage	1400 V	Published
DC output current	250 mA	Published


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1948 Brimar Radio Valve Manual

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

1948 BRIMAR RADIO VALVE MANUAL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	1550 V	—
Peak Current per Anode	675 mA	—
Rectified Current	225 mA	—
RMS Input per Anode	450 V	—
Reservoir Capacitor	32 uF	CapacitorInputFilter


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1958 Brimar Radio Valve No 7

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1958 BRIMAR RADIO VALVE NO 7

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS Input per Anode	450 V	—
Supply Impedance per Anode	75 ohm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Reservoir Capacitor	32 uF	CapacitorInputFilter


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195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum RMS supply voltage per plate	450 V	FullWave
Maximum DC output current	225 mA	FullWave
Maximum peak inverse voltage	1550 V	FullWave
Maximum peak current per plate	675 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	58 V	At 225 mA DC output


SOURCE DATA APPENDIX

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1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
SteadyStatePeakPlateCurrentPerPlate	675 mA	—



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1966 Tung Sol Electronic Tubes 1 of 4

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1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	1550 V	EachPlate
Steady-state peak plate current maximum	675 mA	EachPlate
AC plate voltage per plate	450 V RMS	FullWave;CapacitorInputFilter
DC output current maximum	225 mA	FullWave;CapacitorInputFilter
Minimum effective plate-supply impedance per plate	75 Ω	CapacitorInputFilter
AC plate voltage per plate	550 V RMS	FullWave;ChokeInputFilter
DC output current maximum	225 mA	FullWave;ChokeInputFilter
Minimum input choke	3 H	ChokeInputFilter

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop at 225 mA per plate	58 V	EachPlate



SOURCE DATA APPENDIX

2026 Emission Labs

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2026 EMISSION LABS

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	5 V	—
Filament current	3 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum transformer AC voltage	550 V RMS	—
Maximum DC output current	225 mA	CapacitorInputFilter
Maximum DC output current	265 mA	ChokeInputFilter
Maximum first capacitor	40 uF	CapacitorInputFilter
Repeated peak current	800 mA	—
One-time transient peak current	4 A	—

TUBE TINKER

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