



ELECTRONIC TUBE REFERENCE

6Z4

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Full-wave high-vacuum rectifier, also designated type 84, for receiver power supplies. Its 6.3 V heater-cathode construction provides moderate-current conventional B-plus rectification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5D	BASE PINS	5
NOMINAL HEATER	6.3 V / 500 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	60 mA
PEAK FORWARD CURRENT	180 mA
FORWARD VOLTAGE DROP	20 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Published limits promoted from translated source.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	60 mA
PEAK FORWARD CURRENT	180 mA
FORWARD VOLTAGE DROP	20 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Second physical rectifier section; electrical properties populated from corresponding identical section.</i>	

Explicit co-designation on the Sylvania 84/6Z4 full-wave rectifier sheet.



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
RMS AC voltage per plate maximum	350 V	FullWave
Peak inverse voltage maximum	1000 V	FullWave
DC output current maximum	60 mA	FullWave
Maximum heater-cathode DC voltage	500 V	FullWave
RMS AC plate voltage maximum	350 V	HalfWave;PlatesParallel
Peak inverse voltage maximum	1000 V	HalfWave;PlatesParallel
DC output current maximum	75 mA	HalfWave;PlatesParallel
Maximum heater-cathode DC voltage	500 V	HalfWave;PlatesParallel

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	22 V	At75mAOutputCurrentPerPlate



SOURCE OPERATING CONDITIONS

1940 RCA

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

1940 RCA

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater VoLTage (A. C.or D. C).vvvnvniiniaet	6.3 V	Heater VoLTage (A. C.or D. C).vvvnvniiniaet. 6.3 Volts
HeaTer CURRENT eesreecere e	500 mA	HeaTer CURRENT eesreecere e 0.5 Ampere
A-C PLATE VOLTAGE PR PraTE (RMS)	350 V	A-C PLATE VOLTAGE PR PraTE (RMS)..... 350 max. Volts
Peax INVERSE VOLTAGE..... Ceeetas et	1000 V	Peax INVERSE VOLTAGE..... Ceeetas et 1000 max. Volts
D-C OutPUT CURRENT..... et	50 mA	D-C OutPUT CURRENT..... et 50 max. Milliamperes
The heater is designed so that the normal voltage variation of	6 V	The heater is designed so that the normal voltage variation of 6-volt automobile
operating heater voltage of this tube fluctuate to exceed a maximum of	7.5 V	operating heater voltage of this tube fluctuate to exceed a maximum of 7.5 volts.
The d-c potential difference heater and cathode should be limited to	500 V	The d-c potential difference heater and cathode should be limited to 500 volts.
current is	75 mA	current is 75 milliamperes, while other values are the same as for full'wave service.
Ef=	6.3 V	Ef=6.3 VOLT [T 1i I] Ef=6.3VOLTS
g J0	0 V	g J00VOLTS RMS PER PIAT p L



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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
RMS Input per Anode	325 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rectified Current	60 mA	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1950 Sylvania

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

1950 SYLVANIA
Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	1250 V	—
Nominal DC Output Current	60 mA	—
AC Voltage per Plate	325 V	CapacitorInputFilter
DC Output Current	60 mA	CapacitorInputFilter
AC Voltage per Plate	450 V	ChokeInputFilter
DC Output Current	60 mA	ChokeInputFilter

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	20 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	500 mA	Published heater/filament rating
Tube voltage drop	20 V	At 60 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	60 mA	RectifierService
RMS supply voltage per plate	325 V	RectifierService
Peak current per plate	180 mA	RectifierService



SOURCE OPERATING CONDITIONS

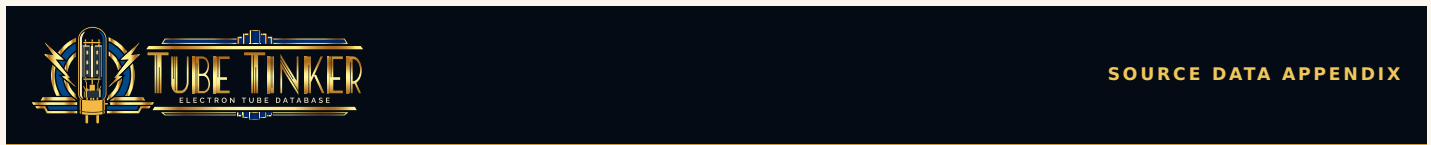
1961 Tung Sol

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
Heater voltage	6.3 V	Nominal
Heater current	500 mA	Nominal



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

198X Shuguang

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

198X SHUGUANG

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	600 mA	Nominal

TUBE TINKER

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