

ELECTRONIC TUBE REFERENCE

5Z4

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

Indirectly heated full-wave high-vacuum rectifier for conventional AC power supplies. Heater-cathode isolation and relatively low forward drop suit receiver, amplifier, and general electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5L	BASE PINS	4
NOMINAL HEATER	5 V / 2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

5L - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN2 – H	–	H – Heater	CONNECTED
PIN4 – P1	A	P – Plate (Anode)	CONNECTED
PIN6 – P2	A	P – Plate (Anode)	CONNECTED
PIN8 – K	A	K – Cathode	CONNECTED
PIN8 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	375 mA
FORWARD VOLTAGE DROP	20 V
<i>Representative row for identical repeated sections.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	375 mA
FORWARD VOLTAGE DROP	20 V
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

Full-wave indirectly heated high-vacuum rectifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1935 RCA All Metal Radio Tubes

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

1935 RCA ALL METAL RADIO TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate RMS	400 V	—
Peak inverse voltage	1100 V	—
DC output current	125 mA	—

1935 RCA ALL METAL RADIO TUBES

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate RMS	400 V	—
Peak inverse voltage	1100 V	—
DC output current	125 mA	—



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.

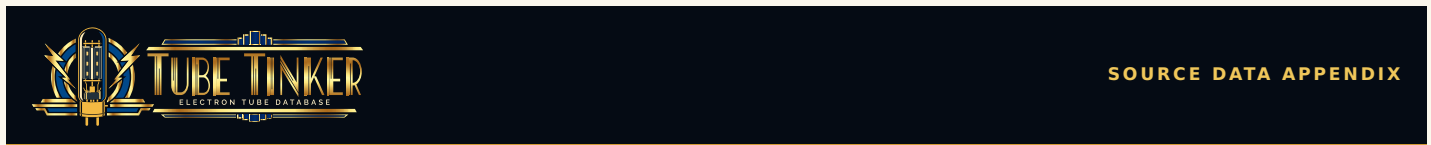
1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5 V	Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament current	2 A	Section1
RMS AC voltage per plate maximum	400 V	FullWave
Peak inverse voltage maximum	1100 V	FullWave
DC output current maximum	125 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	20 V	FullWave



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	2 A	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate	400 V	Published
Peak inverse voltage	1100 V	Published
DC output current	125 mA	Published
Filter service	Capacitor-input or choke-input	Published



1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	5 V	Nominal
HeaterCurrentNominal	2 A	Nominal
Maximum Peak Inverse Voltage	1400 V	—
Rectified Output Current	125 mA	—
PeakForwardCurrent	375 mA	—

1953 RFT RUNDFUNK TECHNIK

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	5 V	Nominal
HeaterCurrentNominal	2 A	Nominal
Maximum Peak Inverse Voltage	1400 V	—
Rectified Output Current	125 mA	—
PeakForwardCurrent	375 mA	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum RMS supply voltage per plate	350 V	FullWave
Maximum DC output current	125 mA	FullWave
Maximum peak inverse voltage	1400 V	FullWave
Maximum peak current per plate	375 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	20 V	At 125 mA DC output

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum RMS supply voltage per plate	350 V	FullWave



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

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
AC Plate Voltage	350 V	CapacitorInputFilter
AC Plate Voltage	500 V	ChokeInputFilter

1961 TUNG SOL

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Voltage	350 V	CapacitorInputFilter
AC Plate Voltage	500 V	ChokeInputFilter

TUBE TINKER

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