



ELECTRONIC TUBE REFERENCE

5W4

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated full-wave high-vacuum rectifier for general power-supply service. Its five-volt filament and moderate current capability suit conventional receiver and amplifier B-plus supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5T	BASE PINS	—
NOMINAL HEATER	5 V / 1.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

5T - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 — IS	A	IS — Internal Screen	CONNECTED
PIN2 — F	—	F — Filament	CONNECTED
PIN4 — P1	A	P — Plate (Anode)	CONNECTED
PIN6 — P2	A	P — Plate (Anode)	CONNECTED
PIN8 — F	—	F — Filament	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	100 mA
PEAK FORWARD CURRENT	300 mA
FORWARD VOLTAGE DROP	45 V
<i>Representative row for identical repeated sections.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	100 mA
PEAK FORWARD CURRENT	300 mA
FORWARD VOLTAGE DROP	45 V
<i>Second physical rectifier section; electrical properties populated from corresponding identical section.</i>	

Full-wave directly heated high-vacuum rectifier.



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	1.8 A	Section1
RMS AC voltage per plate maximum	350 V	FullWave
Peak inverse voltage maximum	1000 V	FullWave
DC output current maximum	110 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	50 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	1.5 A	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate	350 V	RMS
Peak inverse voltage	1000 V	Published
DC output current	110 mA	Published



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	5 V	Published condensed-characteristics chart
Filament/heater current	1.5 A	Published condensed-characteristics chart
DC output current maximum	100 mA	FullWave
Peak inverse voltage maximum	1400 V	FullWave
RMS supply voltage per plate maximum	350 V	FullWave
Peak current per plate maximum	300 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	45 V	At 100 mA DC

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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