



ELECTRONIC TUBE REFERENCE

80

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Classic directly heated full-wave high-vacuum rectifier for receiver and general electronic power supplies. Its five-volt filament and moderate output capability made it a standard early B-plus rectifier.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4C	BASE PINS	4
NOMINAL HEATER	5 V / 2 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	400 mA
FORWARD VOLTAGE DROP	60 V
<i>Published promoted fields populated by semantic section ownership; identical repeated sections compressed.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	400 mA
FORWARD VOLTAGE DROP	60 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
RMS AC voltage per plate maximum	350 V	CondenserInputFilter
Peak inverse voltage maximum	1000 V	CondenserInputFilter
Peak current per plate maximum	400 mA	CondenserInputFilter
DC output current maximum	125 mA	CondenserInputFilter
RMS AC voltage per plate maximum	400 V	CondenserInputFilter
Peak inverse voltage maximum	1100 V	CondenserInputFilter
Peak current per plate maximum	360 mA	CondenserInputFilter
DC output current maximum	110 mA	CondenserInputFilter
RMS AC voltage per plate maximum	550 V	ChokeInputFilter;20HMinimum
Peak inverse voltage maximum	1500 V	ChokeInputFilter;20HMinimum
Peak current per plate maximum	300 mA	ChokeInputFilter;20HMinimum
DC output current maximum	135 mA	ChokeInputFilter;20HMinimum

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	60 V	At135mADC

193X Cunningham

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

193X CUNNINGHAM

Section 1 · Rectifier

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5 V	Published nominal
Heater/filament current	2 A	Published nominal

[SOURCE DATA APPENDIX](#)

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
AC Input Voltage	550 V RMS	FullWave;PerPlate

[SOURCE DATA APPENDIX](#)

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	350 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rectified Current	125 mA	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	350 V	Full-Wave High-Vacuum

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward voltage drop	60 V	Full-Wave High-Vacuum


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1961 Ferranti Technical Handbook

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

1961 FERRANTI TECHNICAL HANDBOOK

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	1400 V	—
Peak Anode Current	400 mA	—
RMS Input Voltage per Anode	500 V	—

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
Peak Inverse Voltage	1400 V	—
DC Output Current	125 mA	FullWave

TUBE TINKER

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and their source documents.

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