

ELECTRONIC TUBE REFERENCE

5T4

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 5 V filament supports approximately 225 mA DC output with substantial inverse-voltage capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5T	BASE PINS	8
NOMINAL HEATER	5 V / 2 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	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	1550 V
NOMINAL OUTPUT CURRENT	225 mA
PEAK FORWARD CURRENT	675 mA
FORWARD VOLTAGE DROP	45 V
<i>Representative row for identical repeated sections.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1550 V
NOMINAL OUTPUT CURRENT	225 mA
PEAK FORWARD CURRENT	675 mA
FORWARD VOLTAGE DROP	45 V
<i>Second physical rectifier section; promoted electrical properties populated from identical section.</i>	

Full-wave 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	2 A	Section1
RMS AC voltage per plate maximum	550 V	FullWave
Peak inverse voltage maximum	1550 V	FullWave
DC output current maximum	250 mA	FullWave
RMS AC voltage per plate maximum	450 V	CondenserInputFilter
Peak inverse voltage maximum	1250 V	CondenserInputFilter
DC output current maximum	250 mA	CondenserInputFilter
RMS AC voltage per plate maximum	550 V	ChokeInputFilter;10HMinimum
Peak inverse voltage maximum	1550 V	ChokeInputFilter;10HMinimum
DC output current maximum	250 mA	ChokeInputFilter;10HMinimum

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

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	450 V	RMS; CapacitorInputFilter
Peak inverse voltage	1250 V	Published
DC output current	250 mA	CapacitorInputFilter



SOURCE OPERATING CONDITIONS

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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
Filament/heater voltage	5 V	Published condensed-characteristics chart
Filament/heater current	2 A	Published condensed-characteristics chart
DC output current maximum	225 mA	FullWave
Peak inverse voltage maximum	1550 V	FullWave
RMS supply voltage per plate maximum	450 V	FullWave
Peak current per plate maximum	675 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	45 V	At 225 mA DC

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
SteadyStatePeakPlateCurrentPerPlate	675 mA	—