

ELECTRONIC TUBE REFERENCE

5Y4G

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 supplies.

GENERAL CHARACTERISTICS

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

5Q - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN3 – P1	A	P – Plate (Anode)	CONNECTED
PIN5 – P2	A	P – Plate (Anode)	CONNECTED
PIN7 – F	–	F – Filament	CONNECTED
PIN8 – F	–	F – Filament	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	375 mA
FORWARD VOLTAGE DROP	60 V
Published full-wave rectifier ratings; repeated identical diode sections compressed.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	375 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
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	1500 V	FullWave
DC output current maximum	135 mA	FullWave
Peak plate current maximum	300 mA	FullWave
RMS AC voltage per plate maximum	400 V	CondenserInputFilter
Peak inverse voltage maximum	1100 V	CondenserInputFilter
Peak plate current maximum	350 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 plate current maximum	300 mA	ChokeInputFilter;20HMinimum
DC output current maximum	135 mA	ChokeInputFilter;20HMinimum

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	80 V	FullWave

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
Peak Inverse Voltage	1400 V	—
Peak Current per Anode	375 mA	—
Rectified Current	125 mA	—
RMS Input per Anode	350 V	—
Reservoir Capacitor	32 uF	CapacitorInputFilter



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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	60 V	At 125 mA DC output

TUBE TINKER

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and their source documents.

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