



ELECTRONIC TUBE REFERENCE

5825

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-voltage half-wave vacuum rectifier for high-frequency power supplies. Its roughly 60 kV inverse-voltage capability and low output current emphasize extreme voltage handling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4P	BASE PINS	4
NOMINAL HEATER	1.6 V / 1.25 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	60000 V
NOMINAL OUTPUT CURRENT	2 mA
PEAK FORWARD CURRENT	40 mA
FORWARD VOLTAGE DROP	1750 V
<i>Representative electrical section from supplied RCA data sheet.</i>	

High-voltage half-wave vacuum rectifier for high-frequency power supplies. Published RCA data include the applicable ratings, characteristics, operating conditions, and capacitances from the supplied sheet.



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
DC output current	2 mA	HalfWave
Peak inverse voltage	60000 V	HalfWave
RMS supply voltage	21200 V	HalfWave
Peak current	40 mA	HalfWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	1750 V	At40mADC



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 6 of 7

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

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Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage nominal	1.6 V	WholeTube
Heater/filament current	1.25 A	WholeTube
Voltage	1.6 V	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current	1 A	Published source row
Current (value 2)	25 A	Published source row
PEAK INVERSE PLATE VOLTAGE	60000 V	Published source row
PEAK PLATE CURRENT	40 mA	Published source row
AVERAGE PLATE CURRENT	2	Published source row
PLATE DISSIPATION	3.5 W	Published source row
AC Plate-Supply Voltage (RMS)	21200 V	Published source row
Effective Plate-Supply Impedance	120000 ohm	Published source row
DC Output Current	2 mA	Published source row
At half-load current (	1 mA	Published source row
At half-load current ((value 2)	280 mA	Published source row
At full-load current (	2 mA	Published source row
At full-load current ((value 2)	26700 mA	Published source row
Half-load to full-load current	1300 V	Published source row

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Filament	2.2 pF	Published source row
peak plate current	1750 V	Published source row
Filament Current	1 A	Published source row
Filament Current (value 2)	1.15 A	Published source row
Filament Current (value 3)	1.35 A	Published source row
Plate-Filament Capacitance	2.14 pF	Published source row
Plate-Filament Capacitance (value 2)	2.26 pF	Published source row
Note: withn	1.6 V	Published source row
do or low-frequency ac supply of	1 V	Published source row
do or low-frequency ac supply of (value 2)	6 V	Published source row
frequency ac at a voltage of	1 V	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
frequency ac at a voltage of (value 2)	68 V	Published source row
a plate voltage above approximately	20000 V	Published source row

TUBE TINKER

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