

Filamentary high-voltage rectifier for television flyback/EHT service. It rectifies horizontal-output transformer pulses to generate CRT accelerating voltage with a low-power filament at elevated potential.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9	BASE PINS	9
NOMINAL HEATER	1.8 V / 225 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	8250 V
NOMINAL OUTPUT CURRENT	0.6 mA
PEAK FORWARD CURRENT	50 mA
FORWARD VOLTAGE DROP	20 V
MAXIMUM HEATER-CATHODE VOLTAGE	0.6 V
Promoted values are taken from the printed ratings on the uploaded source; additional non-promoted values are retained in TUBE_SECTION_PARAMETER.	

Miniature half-wave vacuum rectifier used as a high-voltage, low-current pulse-operated focus rectifier in color television receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	1.8 V	—
HeaterOrFilamentCurrentNominal	225 mA	—
RectifierMaximumPeakInverseVoltage	7000 V	—
RectifierNominalOutputCurrent	0.85 mA	—
RectifierMaximumHeaterCathodeVoltage	0.6 V	—



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 4 of 7

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1971 RCA HB3 BINDER 4 OF 7

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	1.8 V	—
Heater/filament current	225 mA	—
Peak inverse plate voltage total DC plus peak	8250 V	PulsedRectifier
Maximum DC component of inverse plate voltage	7000 V	PulsedRectifier
Peak plate current	50 mA	PulsedRectifier
Average plate current	0.6 mA	PulsedRectifier

Characteristic		
Parameter	Published Value	Condition / Note
Tube voltage drop	20 V	PlateCurrent=1mA

Application		
Parameter	Published Value	Condition / Note
Application	High-voltage half-wave pulsed rectifier	TelevisionFlyback



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Rectifier

Other		
Parameter	Published Value	Condition / Note
Filament Current	225 mA	Published in approved target datasheet entry
Peak Plate Current	50 mA	Published in approved target datasheet entry
Average Plate Current	0.6 mA	Published in approved target datasheet entry
Tube Voltage Drop for plate current of	1 mA	Published in approved target datasheet entry
Tube Voltage Drop for plate current of 1 mA	20 V	Published in approved target datasheet entry

Capacitance		
Parameter	Published Value	Condition / Note
Plate to Filament	0.8 pF	Published in approved target datasheet entry

Characteristic		
Parameter	Published Value	Condition / Note
not exceed	7000 V	Published in approved target datasheet entry
* Under no circumstances should the filament voltage be less than	1.53 V	Published in approved target datasheet entry



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