

ELECTRONIC TUBE REFERENCE

2BU2

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Duodecar high-voltage vacuum rectifier for supplying picture-tube anode voltage in television receivers. Its specialized construction supports flyback-derived CRT accelerating-voltage service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12JB	BASE PINS	12
NOMINAL HEATER	2.5 V / 330 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	30000 V
NOMINAL OUTPUT CURRENT	8 mA
PEAK FORWARD CURRENT	80 mA
FORWARD VOLTAGE DROP	60 V
MAXIMUM HEATER-CATHODE VOLTAGE	2.9 V
Promoted values are taken from the printed ratings on the uploaded source; additional non-promoted values are retained in TUBE_SECTION_PARAMETER.	

Duodecar half-wave high-voltage vacuum rectifier for supplying picture-tube anode voltage in television receivers; source co-designates 2BU2/2AH2.



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	2.5 V	—
HeaterOrFilamentCurrentNominal	400 mA	—
RectifierMaximumPeakInverseVoltage	24000 V	—
RectifierNominalOutputCurrent	8 mA	—
RectifierMaximumHeaterCathodeVoltage	2.9 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	2.5 V	—
Heater/filament current	330 mA	—
Peak inverse plate voltage total DC plus peak	30000 V	PulsedRectifier
Maximum DC component of inverse plate voltage	24000 V	PulsedRectifier
Peak plate current	80 mA	PulsedRectifier
Average plate current	1.5 mA	PulsedRectifier

Characteristic		
Parameter	Published Value	Condition / Note
Tube voltage drop	60 V	PlateCurrent=7mA

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
Peak Plate Current	80 mA	Published in approved target datasheet entry
Average Plate Current	1.5 mA	Published in approved target datasheet entry
Absolute-maximum value	2.9 V	Published in approved target datasheet entry
Absolute-minimum value	2.1 V	Published in approved target datasheet entry
Tube Voltage Drop (Approx.), for plate current of	7 mA	Published in approved target datasheet entry
Tube Voltage Drop (Approx.), for plate current of	60 V	Published in approved target datasheet entry

Characteristic		
Parameter	Published Value	Condition / Note
Statistical value controlled on a lot sampling basis	0.5 mR/hr	Published in approved target datasheet entry
The dc component must not exceed	24000 V	Published in approved target datasheet entry