

ELECTRONIC TUBE REFERENCE

2AS2A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Duodecar high-voltage vacuum rectifier for pulse circuits in color television receivers. Its specialized role is flyback-derived picture-tube accelerating-voltage generation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12EW	BASE PINS	12
NOMINAL HEATER	2.5 V / 400 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12EW - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN1	–	IS – Internal Screen	CONNECTED
PIN1	–	K – Cathode	CONNECTED
PIN2	–	H – Heater	CONNECTED
PIN2	–	K – Cathode	CONNECTED
PIN2	–	–	UNKNOWN
PIN4	–	–	IC
PIN5	–	H – Heater	CONNECTED
PIN5	–	IS – Internal Screen	CONNECTED
PIN5	–	K – Cathode	CONNECTED
PIN7	–	H – Heater	CONNECTED
PIN7	–	IS – Internal Screen	CONNECTED
PIN7	–	K – Cathode	CONNECTED

TERMINAL	SECTION	ELEMENT	STATUS
PIN11	—	H – Heater	CONNECTED
PIN12	—	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	24000 V
NOMINAL OUTPUT CURRENT	8 mA
PEAK FORWARD CURRENT	90 mA
FORWARD VOLTAGE DROP	75 V
MAXIMUM HEATER-CATHODE VOLTAGE	2.9 V
<i>Promoted values are taken from the printed ratings on the uploaded source; additional non-promoted values are retained in TUBE_SECTION_PARAMETER.</i>	

Duodecar half-wave vacuum rectifier for high-voltage pulse circuits 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	2.5 V	—
HeaterOrFilamentCurrentNominal	400 mA	—
RectifierMaximumPeakInverseVoltage	24000 V	—
RectifierNominalOutputCurrent	8 mA	—
RectifierMaximumHeaterCathodeVoltage	2.9 V	—



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	90 mA	Published in approved target datasheet entry
Average Plate Current	1.7 mA	Published in approved target datasheet entry
Tube Voltage Drop for plate current of	7 mA	Published in approved target datasheet entry
Tube Voltage Drop for plate current of 7 mA	75 V	Published in approved target datasheet entry
Statistical value controlled on a lot sampling basis	25 mR/hr	Published in approved target datasheet entry

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
* The dc component must not exceed	24000 V	Published in approved target datasheet entry

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#)
[Tube types](#)
[Full books](#)
[Blog](#)
[Feedback & corrections](#)

© 2026 Tube Tinker