

ELECTRONIC TUBE REFERENCE

1N2A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-voltage television flyback/EHT rectifier designed to convert horizontal-output transformer pulses into the DC accelerating supply required by the CRT.

GENERAL CHARACTERISTICS

BASE DESIGNATION	3C	BASE PINS	7
NOMINAL HEATER	1.25 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

3C - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	–	IC
PIN2 – Pin 2	–	F – Filament	CONNECTED
PIN3 – Pin 3	–	–	IC
PIN5 – Pin 5	–	–	IC
PIN7 – Pin 7	–	F – Filament	CONNECTED
PIN8 – Pin 8	–	–	IC
CAP1 – Top cap	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	28000 V
NOMINAL OUTPUT CURRENT	0.5 mA
PEAK FORWARD CURRENT	50 mA
FORWARD VOLTAGE DROP	100 V
<i>Published values promoted where applicable; sparse source sheets remain sparse rather than inferred.</i>	

Directly heated high-voltage half-wave rectifier diode for television flyback and other high-voltage supplies.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total DC and Peak Inverse Plate Voltage	28000 V	Flyback
DC Inverse Plate Voltage	24000 V	Flyback
Peak Plate Current	50 mA	—
Average Plate Current	0.5 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Drop	100 V	Ib approx. 7 mA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Rectifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-filament capacitance	1.4 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total DC and peak inverse voltage maximum	28000 V	FlybackRectifier
DC inverse voltage maximum	24000 V	FlybackRectifier
Peak plate current maximum	50 mA	FlybackRectifier
Average plate current maximum	0.5 mA	FlybackRectifier
X-ray shielding note	May be required above specified voltage conditions	FlybackRectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube drop at 7 mA	100 V	FlybackRectifier

TUBE TINKER

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

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