

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

1H2

1 SECTION
CONSTRUCTION
RECTIFIER

Rectifier - TV Line Scan Boost electronic tube

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	9LX	BASE PINS	9
NOMINAL HEATER	1.4 V / 550 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9LX - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	IS – Internal Screen	CONNECTED
PIN2	–	H – Heater	CONNECTED
PIN4	–	IS – Internal Screen	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	–	H – Heater	CONNECTED
PIN6	–	IS – Internal Screen	CONNECTED
PIN6	–	K – Cathode	CONNECTED
PIN7	–	H – Heater	CONNECTED
PIN7	–	IS – Internal Screen	CONNECTED
PIN7	–	K – Cathode	CONNECTED
PIN8	–	H – Heater	CONNECTED
CAP1 – Top cap	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	30000 V
NOMINAL OUTPUT CURRENT	0.5 mA
PEAK FORWARD CURRENT	50 mA
FORWARD VOLTAGE DROP	100 V
<i>Flyback rectifier service; PIV total DC+peak 30 kV, DC component 24 kV; approx. 100 V drop at 7 mA.</i>	

1H2 is a Rectifier device. High-voltage diode/half-wave rectifier for television flyback or other high-voltage service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakInverseVoltageDCComponent	24000 V	FlybackRectifier

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To Heater Cathode Shield Capacitance	1 pF	Approximate

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	100 V	PlateCurrent=7mA



SOURCE OPERATING CONDITIONS

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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

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	1.4 V	—
Filament/heater current	550 mA	—
Maximum total DC-plus-peak inverse voltage	—30000 V	FlybackRectifier

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum steady-state peak plate current	50 mA	FlybackRectifier
Maximum DC output current	0.5 mA	FlybackRectifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-filament/heater capacitance	1 pF	Approximate



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
Peak inverse plate voltage DC component	24000 V	FlybackRectifier
Peak inverse plate voltage total DC and peak	30000 V	FlybackRectifier
Steady state peak plate current	50 mA	FlybackRectifier
DC output current	0.5 mA	FlybackRectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	100 V	I _b =7mA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitance	1 pF	—