

ELECTRONIC TUBE REFERENCE

3DH3

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Full-wave vacuum rectifier associated with the 3DG4/3DH3 documentation. Available source material identifies conventional full-wave rectification rather than explicit television flyback or EHT service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8MN	BASE PINS	8
NOMINAL HEATER	3.15 V / 480 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8MN - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IC	–	–	IC
PIN2 – H	–	H – Heater	CONNECTED
PIN3 – IC	–	–	IC
PIN4 – IC	–	–	IC
PIN5 – IC	–	–	IC
PIN6 – IC	–	–	IC
PIN7 – IS	A	IS – Internal Screen	CONNECTED
PIN7 – K	A	K – Cathode	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – IC	–	–	IC
CAP1 – P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	38000 V
NOMINAL OUTPUT CURRENT	2.2 mA
PEAK FORWARD CURRENT	110 mA
FORWARD VOLTAGE DROP	25 V
<i>Promoted from printed flyback-rectifier maximum ratings and average characteristics.</i>	

A vacuum rectifier documented for television or power-supply service.



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 voltage, DC component	30000 V	FlybackRectifierService
Heater voltage absolute maximum	3.65 V	—
Heater voltage absolute minimum	2.65 V	—
X-radiation output maximum	25 mR/hr	At published maximum-rated operating conditions

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to heater/cathode/internal shield capacitance	1.6 pF	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Hot-switching transient plate current per plate	6.6 A	FullWaveRectifier
AC plate-to-plate supply voltage	660 V	CapacitorInputFilter
Filter-input capacitance	40 uF	CapacitorInputFilter
DC output voltage at 350 mA	300 V	CapacitorInputFilter

TUBE TINKER

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