



ELECTRONIC TUBE REFERENCE

31A3

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Directly heated half-wave rectifier for AC-to-DC power conversion, using a 31 V filament suitable for series-heater equipment and providing approximately 100 mA output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8HB	BASE PINS	—
NOMINAL HEATER	31 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
NOMINAL OUTPUT CURRENT	100 mA
MAXIMUM HEATER-CATHODE VOLTAGE	550 V
<i>Published ratings/characteristics are additionally preserved in TUBE_SECTION_PARAMETER.</i>	

31A3 is a rectifier tube for ac-to-dc conversion. The supplied Philips datasheet was read for construction, ratings, characteristics, operating data, and stated applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin	7 C	Pin 7 Cathode
Heater Voltage	31 V	Heater Voltage 31 volts
Heater Current	100 mA	Heater Current 0.1 amps
A.C. Plate Supply Voltage (RMS)	250 V	A.C. Plate Supply Voltage (RMS) 250 volts
b.C. Output current	100 mA	b.C. Output current 100 ma
Filter input capacitor	50 pF	Filter input capacitor 50 pF
Effective Plate Supply Impedance	210 ohms	Effective Plate Supply Impedance 210 ohms
cathode	550 V	cathode 550 volts

TUBE TINKER

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