



ELECTRONIC TUBE REFERENCE

CY31

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Indirectly heated half-wave power rectifier for AC/DC mains equipment. Its 20 V, 200 mA heater supports approximately 250 V RMS anode input and 120 mA maximum rectified current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	20 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
NOMINAL OUTPUT CURRENT	120 mA
MAXIMUM HEATER-CATHODE VOLTAGE	350 V
WARM-UP TIME	70 s
<i>Half-wave rectifier.</i>	

Half-wave power rectifier with a 20 V, 200 mA heater, 250 V rms maximum anode voltage, 120 mA maximum rectified current and reservoir-capacitor series-resistance recommendations.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS Input	250 V	Maximum
Reservoir Capacitance	8 uF	SeriesResistance=0ohm
Reservoir Capacitance	16 uF	SeriesResistance=75ohm
Reservoir Capacitance	32 uF	SeriesResistance=125ohm

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating Time	70 s	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage maximum RMS	250 V	—
Rectified current maximum	120 mA	—
Heater-cathode voltage maximum peak	350 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating time	70 s	—
Minimum series resistance	0 ohm	Reservoir capacitance=8 uF
Minimum series resistance	75 ohm	Reservoir capacitance=16 uF
Minimum series resistance	125 ohm	Reservoir capacitance=32 uF

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