



ELECTRONIC TUBE REFERENCE

EY84

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Indirectly heated half-wave rectifier designed primarily for high-altitude operation. Its construction provides reliable moderate-current power conversion under reduced atmospheric pressure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Noval	BASE PINS	9
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	- / -
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	2000 V
NOMINAL OUTPUT CURRENT	150 mA
PEAK FORWARD CURRENT	900 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	650 V
Half-wave rectifier primarily intended for high-altitude operation.	

H ALF -W AV E RECTI FI ER Indirectly heated half-wave rectifier primarily intended for operation at high altitudes. EY84 HEATE R 6.3 V 1.0 A LIM I TI N G VAL UES



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	900 mA	—
Anode Voltage Drop	22 V	OutputCurrent=150mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterCathodeVoltageMaximum	650 V	HeaterNegative
DCAOutputCurrentMaximum	150 mA	CapacitorInputFilter;RMSInput=500V
DCAOutputCurrentMaximum	175 mA	CapacitorInputFilter;RMSInput=700V
PeakAnodeCurrentMaximum	900 mA	—



SOURCE OPERATING CONDITIONS

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1963 Philips Electron Tubes Handbook V1a

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC input voltage	500 V RMS	TwoTubes; TwoPhaseHalfWave

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Series resistance	150 ohm	PerTube; ACInput=500V
Filter capacitance at 50Hz	16 uF	—
Filter capacitance at 1600Hz	0.5 uF	—
DC output current	300 mA	TwoTubes; ACInput=500V
DC output voltage	500 V	TwoTubes; ACInput=500V
AC input voltage	625 V RMS	TwoTubes; TwoPhaseHalfWave
Series resistance	250 ohm	PerTube; ACInput=625V
DC output current	250 mA	TwoTubes; ACInput=625V
DC output voltage	635 V	TwoTubes; ACInput=625V
Peak inverse voltage	2000 V	—
Maximum DC current at 500 V input	150 mA	PerTube
Maximum DC current at 625 V input	125 mA	PerTube
Maximum peak current	900 mA	—
Maximum filter capacitance	24 uF	—



SOURCE OPERATING CONDITIONS

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1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
P.I.V. max	2 V	Characteristic
lout ma x. l See rat ing cha rt	1 ma	Characteristic
lout ma x. l See rat ing chart	1 ma	Characteristic
Anod e vo ltage drop (lout =	22 V	CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
using a capacitor of	5 a	CHARACTERISTICS
lout	0 mA	CHARACTERISTICS
lim it ing re sist ance. Rating cha rt	2	CHARACTERISTICS
Refe r e nce should be made to rati ng cha rt	1 A	CHARACTERISTICS
Ca pa citor input f ilt e r bas ed upon ia (surge)::	2 A	CHARACTERISTICS
Ca pac it or input bas ed upon ia(pk) ma x =	0 ma	CHARACTERISTICS



SOURCE OPERATING CONDITIONS

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1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical datum	6.3 V	Chauffage: indirect par C.A. ou C.C. Ve = 6,3 V
Published electrical datum	1 A	alimentation en parallble Ir = 1,0 A
Published electrical datum	635 V	Vo = 500 635 V
Published electrical datum	2000 V	Vinv.p. = max, 2000 V
Published electrical datum	500 Veff	Rt (Vi § 500 Veff) = min. 150 ®

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical datum	250 mA	To = max. 300 250 mA
Published electrical datum	500 Veff	Io (Vi = 500 Veff) = max. 150 mA
Published electrical datum	125 mA	(V41 = 625 Vefr) = max. 125 mA
Published electrical datum	900 mA	lap = max. 0,9 A
Published electrical datum	24 µF	Crilt = Max. 24 uF
Published electrical datum	500 V	Vif (k pos.; f neg.) = max. 500 V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal heater rating
Heater current	1 A	Nominal heater rating