



ELECTRONIC TUBE REFERENCE

PY31

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Indirectly heated half-wave rectifier for AC/DC power supplies. Rated for approximately 1 kV peak inverse voltage and 125 mA nominal rectified output from a 17 V series heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	17 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	125 mA
MAXIMUM HEATER-CATHODE VOLTAGE	300 V
Published valve ratings and characteristics promoted where applicable; additional data retained as parameters.	

Indirectly heated half-wave rectifier for DC/AC operation.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	17 V	—
HeaterOrFilamentCurrent	300 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	1000 V	—
DC Output Current	125 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Mullard Receiving Tubes

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

1958 MULLARD RECEIVING TUBES

Section 1 · Rectifier

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Half-wave rectifier	—



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
Operating point	250 V RMS; 60 uF; 175 ohm min	CapacitorInputFilter
Operating point	250 V RMS; 32 uF; 125 ohm min	CapacitorInputFilter
Operating point	250 V RMS; 16 uF; 75 ohm min	CapacitorInputFilter
Operating point	170 V RMS; 60 uF; 100 ohm min	CapacitorInputFilter
RMS input voltage maximum	250 V	CapacitorInputFilter
Reservoir capacitance maximum	60 uF	CapacitorInputFilter

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker