

ELECTRONIC TUBE REFERENCE

U18

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

Directly heated full-wave rectifier with dual electrode system for higher-current supplies, designed for long life and stable emission while providing approximately 250 mA DC output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	4 V / 3.75 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	250 mA
MAXIMUM HEATER-CATHODE VOLTAGE	0 V
Published ratings and characteristics promoted from the approved datasheet.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	250 mA
MAXIMUM HEATER-CATHODE VOLTAGE	0 V
Physical rectifier section 2; identical section values duplicated per physical-section policy.	

A full-wave rectifying valve with a dual electrode system, designed for long life and constant emission at its rated filament voltage and output.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Osram Valves

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

1937 OSRAM VALVES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	4 V	Published datasheet value
Heater Current	3.75 A	Published datasheet value
Anode Voltage RMS	500 V	EachAnode
Rectified DC Current	250 mA	Published datasheet value
DC Output Voltage	520 V	At maximum rated AC input



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

193X Osram

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

193X OSRAM

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode RMS voltage each anode	500 V	Published datasheet value
DC output voltage	520 V	Published datasheet value



1955 Marconi

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

1955 MARCONI

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	4 V	—
Heater/filament current	3.75 A	—
Peak inverse voltage	1400 V	—
Nominal/maximum output current	250 mA	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rectifier topology	Bi-phase/full-wave	—

TUBE TINKER

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