



ELECTRONIC TUBE REFERENCE

U12

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated full-wave rectifier with dual electrode system for AC mains supplies, designed for long life and stable emission while providing approximately 120 mA DC output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	4 V / 2.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	120 mA
MAXIMUM HEATER-CATHODE VOLTAGE	0 V
<i>Published maximum ratings and characteristics audited; remaining useful numerical data retained in parameter table.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	120 mA
MAXIMUM HEATER-CATHODE VOLTAGE	0 V
<i>Physical rectifier section 2; identical section values duplicated per physical-section policy.</i>	

Full-wave rectifying valve with a dual electrode system for A.C. mains supplies, designed for long life and constant emission at rated filament voltage.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

192X Marconi Valve

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

192X MARCONI VALVE

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output voltage	350 V	Published approximate operating data



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	2.5 A	Published datasheet value
Anode Voltage RMS	350 V	EachAnode
Rectified DC Current	120 mA	Published datasheet value
DC Output Voltage	325 V	At maximum rated AC input



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	2.5 A	—
Peak inverse voltage	1000 V	—
Nominal/maximum output current	120 mA	—

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