

ELECTRONIC TUBE REFERENCE

VI1520

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Indirectly heated high-voltage pulse rectifier, designated VI1-5/20, for specialized pulse-power circuits. Rated for approximately 20 kV reverse voltage and 50 mA nominal rectified output from a 6.3 V heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	33 W
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	50 mA
PEAK FORWARD CURRENT	5 A
English text used as primary source; Russian text used only to repair/check ambiguous OCR.	

The VI1-5/20 is an indirectly heated high-voltage pulse rectifier tube with a 20 kV reverse-voltage rating.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Electronintorg

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

1968 ELECTRONINTORG

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	6.3 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Reverse Voltage	20000 V	—
Peak Anode Current	5 A	—
Average/Rectified Anode Current	50 mA	—
Anode Dissipation	33 W	—
Electrical Charge of Pulse	22 A-us	—
Reverse-Voltage Pulse Duration	4 us	—
Reverse-Voltage 1/Duty Factor	500	—