

ELECTRONIC TUBE REFERENCE

VI15025

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Indirectly heated high-voltage pulse rectifier for clipping, protection, rectification, and charging modes. Its roughly 25 kV reverse-voltage capability suits specialized pulse systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	25000 V
NOMINAL OUTPUT CURRENT	500 mA
PEAK FORWARD CURRENT	50 A
WARM-UP TIME	120 s
English text used as primary source; Russian text used only to repair/check ambiguous OCR.	

The VI1-50/25 is an indirectly heated high-voltage pulse rectifier tube used in clipping, protection, rectification, and charging modes.

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	12.6 V	—
Warm-up/Cathode Heating Time	120 s	—
Peak Anode Current at 5 kV	70 A	2-4 us; 1/duty factor 1000
Peak Anode Current after 500 h Minimum	40 A	—
Warm-up Time at 15 V	60 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Reverse Voltage	25000 V	—
Peak Anode Current	50 A	—
Average/Rectified Anode Current	500 mA	—
Peak Reverse Voltage in Protection/Rectification/Charging Modes	16000 V	—
Pulse Duration	10 us	—
Peak Reverse Voltage 1/Duty Factor	300	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-Cathode Capacitance Maximum	30 pF	—