



ELECTRONIC TUBE REFERENCE

6103

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Forced-air-cooled high-vacuum thoriated-tungsten half-wave rectifier for substantial high-voltage supplies, providing approximately 20 kV inverse-voltage capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 7.2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	150 mA
PEAK FORWARD CURRENT	900 mA
FORWARD VOLTAGE DROP	300 V
<i>Published electrical limits and characteristics promoted from the approved source. Values without an applicable promoted column are retained in TUBE_SECTION_PARAMETER.</i>	

Forced-air-cooled high-vacuum rectifier diode with thoriated-tungsten filament for service up to 20 kV peak inverse voltage.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	5 V	Nominal
HeaterCurrentNominal	7.2 A	Nominal
Maximum Peak Inverse Voltage	20000 V	—
AverageOrDCOutputCurrent	150 mA	—
MaximumPeakForwardCurrent	900 mA	—
AirFlowRequired	50 cfm	Forced-air cooling

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	300 V	—
FilamentHeatingTime	3 s	—