



ELECTRONIC TUBE REFERENCE

531

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Forced-air-cooled high-voltage transmitting vacuum rectifier for demanding power supplies. Its massive filament, tens-of-kilovolts inverse-voltage capability, and substantial current suit transmitter and industrial systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	115 V / 20 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	50000 V
NOMINAL OUTPUT CURRENT	290 mA
PEAK FORWARD CURRENT	750 mA
<i>Published ratings and characteristics promoted where clearly applicable; additional source values retained as section parameters.</i>	

Forced-air-cooled high-voltage transmitting vacuum rectifier diode.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	115 V	Published nominal/representative value
Heater or filament current	20 A	Published nominal/representative value
Required cooling airflow	50 cfm	Approximately; starts with filament voltage

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	50000 V	Published source value
Peak forward current	750 mA	Published source value
Average DC plate current	290 mA	Published