



ELECTRONIC TUBE REFERENCE

579B

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Air-cooled directly heated high-voltage vacuum half-wave rectifier for industrial supplies. Its heavy filament and multi-kilovolt capability suit specialized professional DC systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	2.5 V / 6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	25 mA
PEAK FORWARD CURRENT	270 mA
<i>Representative electrical section from supplied RCA data sheet.</i>	

Air-cooled directly heated high-voltage vacuum rectifier.



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

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	HighVoltageVacuumRectifier text	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 6 of 7

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

1971 RCA HB3 BINDER 6 OF 7

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage nominal	2.5 V	WholeTube
Heater/filament current	6 A	WholeTube
Voltage (AC)	2.5 V	Published source row
Voltage (AC) (value 2)	5 V	Published source row
'~'~ Current at filament volts =	2.5 V	Published source row
'~'~ Current at filament volts = (value 2)	6 V	Published source row
PEAK INVERSE PLATE VOLTAGE	20000 V	Published source row
Published electrical value	5798	Published source row
Peak inverse plate voltage	20000 V	Promoted field corroboration

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker