



ELECTRONIC TUBE REFERENCE

4080A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated hot-cathode mercury-vapor half-wave rectifier for extremely high-current power conversion. Rated for approximately 16 kV peak inverse voltage and 20 A nominal output for heavy industrial supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Special 2-pin	BASE PINS	3
NOMINAL HEATER	5 V / 100 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	16000 V
NOMINAL OUTPUT CURRENT	20 A
PEAK FORWARD CURRENT	50 A
Mercury-vapour or high-voltage rectifier ratings promoted from the published maximum-ratings table.	

Half-wave hot-cathode mercury-vapour rectifier. Directly heated high-current rectifier for power conversion service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Standard Valves

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

1937 STANDARD VALVES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Anode Current	50 A	Published datasheet value
MaximumAverageAnodeCurrent	20 A	Published datasheet value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Standard Valves

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

1947 STANDARD VALVES

Section 1 · Rectifier

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapour	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filter type	Choke input	—
Supply frequency	50 Hz	—

TUBE TINKER

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

