



ELECTRONIC TUBE REFERENCE

4078A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Directly heated hot-cathode mercury-vapor half-wave rectifier for high-voltage, high-current conversion. Rated for approximately 20 kV peak inverse voltage and 2.5 A nominal rectified output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	2
NOMINAL HEATER	5 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	20000 V
NOMINAL OUTPUT CURRENT	2.5 A
PEAK FORWARD CURRENT	10 A
<i>Mercury-vapour or high-voltage rectifier ratings promoted from the published maximum-ratings table.</i>	

4078A is a half-wave hot-cathode mercury-vapour rectifier. The Standard Valves sheet publishes construction, electrical constants, limiting conditions, and applicable operating data.



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	10 A	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mercury vapor fill	1 boolean	Hot-cathode mercury-vapour rectifier



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	—

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and their source documents.

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