



ELECTRONIC TUBE REFERENCE

4048A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated oxide-filament half-wave mercury-vapor rectifier for power conversion. Rated for approximately 1.6 kV peak inverse voltage, with published operating conditions covering multi-valve rectifier circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	1.8 V / 5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1600 V
PEAK FORWARD CURRENT	750 mA
WARM-UP TIME	30 s
<i>Published ratings/characteristics promoted; remaining useful source values represented as parameters.</i>	

Directly heated oxide-filament mercury-vapour rectifier with 1.6 kV peak inverse rating and published multi-valve rectifier circuit operating conditions.

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
Time delay	30 s	—
Heating period after transport	15 min	—
Recommended ambient temperature minimum	10 degC	—
Recommended ambient temperature maximum	50 degC	—
Typical load voltage	500 V	Circuit2;TwoValves
Typical load current	450 mA	Circuit2;TwoValves

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	1.8 V	—
Heater/filament current	5 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	1600 V	—
Maximum peak anode current	750 mA	—

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