



ELECTRONIC TUBE REFERENCE

4049C

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated high-voltage half-wave mercury-vapor rectifier for substantial power supplies. Rated for approximately 10 kV peak inverse voltage and 1.25 A nominal output for multi-valve rectifier systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 9.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	1.25 A
PEAK INVERSE VOLTAGE	10000 V
NOMINAL OUTPUT CURRENT	1.25 A
PEAK FORWARD CURRENT	5 A
<i>Published ratings/characteristics promoted; remaining useful source values represented as parameters.</i>	

Directly heated high-voltage mercury-vapour rectifier with 10 kV peak inverse voltage, 5 A peak anode current and published multi-valve rectifier operating circuits.



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 average anode current	1.25 A	—
Ambient temperature minimum	5 degC	—
Ambient temperature maximum	70 degC	—
Condensed mercury temperature minimum	20 degC	—
Condensed mercury temperature maximum	70 degC	—
Post-shipment filament heating	30 min	—
Maximum DC load current	2.5 A	Circuit2;TwoValves
Approximate DC output voltage	3200 V	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	4 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament current	9.5 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cathode/anode current	1.25 A	—
Maximum peak inverse voltage	10000 V	—
Maximum peak anode current	5 A	—
Maximum average anode current	1.25 A	—
Ambient temperature range	5–70 °C	—

TUBE TINKER

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