



ELECTRONIC TUBE REFERENCE

DCX45000

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Philips directly heated single-anode gas-filled half-wave industrial rectifier for high-voltage conversion, providing approximately 10 kV inverse-voltage capability and ampere-class output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	JUMBO 4-P	BASE PINS	—
NOMINAL HEATER	5 V / 7.1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	10000 V
NOMINAL OUTPUT CURRENT	1.25 A
PEAK FORWARD CURRENT	5 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	30 s
Single-anode gas-filled industrial rectifier.	

DCX45000 is a Rectifier device in the supplied Philips industrial literature. Single-anode gas-filled industrial rectifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V4

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Xenon	—
Peak inverse voltage	10 kV	—
Maximum average current	1.25 A	—
Maximum peak current	5 A	—
Maximum surge current	50 A	—
Ambient temperature range	-55–70 degC	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Arc voltage drop	12 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Rectifier

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Xenon	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum average current	1.25 A	—
Maximum peak current	5 A	—
Maximum peak inverse voltage	10 kV	—
Maximum surge current	50 A	Duration<=0.1s
Ambient temperature range	-55 to +70 degC	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Arc voltage at 1.25 A	12 V	—

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