



ELECTRONIC TUBE REFERENCE

DCG1250

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Philips single-anode mercury-vapor half-wave industrial rectifier for power conversion. Rated for approximately 3 kV peak inverse voltage, 250 mA average output, and 1.25 A peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 2.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	3000 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	1.25 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	15 s
Single-anode mercury-vapour industrial rectifier.	

DCG1250 is a Rectifier device in the supplied Philips industrial literature. Single-anode mercury-vapour 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
Peak inverse voltage at 150 Hz	3000 V	—
Peak inverse voltage at 500 Hz	2550 V	—
Maximum average anode current	250 mA	—
Maximum peak anode current	1250 mA	—
Ambient temperature range	10–40 degC	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Recommended filament preheat time	15— s	Minimum
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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	4 V	—
Heater current	2.5 A	—
Maximum peak inverse voltage	3000 V	—
Maximum rectified current	250 mA	—
Maximum peak forward current	1.25 A	—

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