

Mercury-vapor grid-controlled thyratron for industrial controlled rectification and power-control switching.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 13.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	27000 V
NOMINAL OUTPUT CURRENT	2.5 A
PEAK FORWARD CURRENT	10 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	90 s
Grid-controlled mercury-vapour rectifying tube for industrial controlled-rectifier service.	

DCG1230 is a Thyratron device in the supplied Philips industrial literature. Grid-controlled mercury-vapour rectifying tube for industrial controlled-rectifier service.

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode capacitance	4 pF	—
Grid capacitance	13 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deionization time	—500 us	Maximum
Ionization time	—10 us	Maximum
Arc voltage drop at 2.5A	12 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse anode voltage	27 kV	—
Peak forward anode voltage	27 kV	—
Average anode current	2.5 A	—
Peak anode current	10 A	—
Surge current	100 A	Duration<=0.1s
Maximum negative grid voltage	300 V	BeforeConduction
Average grid current	25 mA	—
Peak grid current	125 mA	—

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

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Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	13.5 A	—
Maximum peak inverse voltage	27000 V	—
Maximum rectified current	2.5 A	—
Maximum peak forward current	10 A	—
Maximum surge current	100 A	—
Minimum warm-up time	90 s	—
Maximum grid voltage	300 V	—
Maximum grid current	25 mA	—
Maximum peak grid current	125 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward voltage drop	12 V	—
Deionization time maximum	500 us	—
Ionization time maximum	10 us	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-grid capacitance	4 pF	—
Grid capacitance	13 pF	—

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