



ELECTRONIC TUBE REFERENCE

DCG7100

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Indirectly heated mercury-vapor thyatron for high-voltage controlled rectification and industrial regulating equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	5 V / 20 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM CATHODE CURRENT	12.5 A
PEAK INVERSE VOLTAGE	15000 V
NOMINAL OUTPUT CURRENT	10 A
PEAK FORWARD CURRENT	45 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	600 s
Mercury-vapor thyatron; canonical SectionType has no Thyatron value, so Other is used.	

An indirectly heated mercury-vapor thyatron with control grid, used as a high-voltage half-wave rectifier and as a switching and control tube in industrial regulating equipment.



SOURCE OPERATING CONDITIONS

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak anode voltage	15 kV	—
Maximum surge anode current	40 A	—
Maximum average anode current	12.5 A	—
Maximum positive grid voltage	600 V	—
Minimum negative grid voltage	600 V	—
Minimum warmup time	300 s	—



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 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Arc voltage drop at 15A	12 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse anode voltage	15 kV	—
Peak forward anode voltage	15 kV	—
Maximum continuous average anode current	10 A	—
Short-time average anode current	15 A	Tav<=10s
Peak anode current	45 A	—
Surge current	600 A	—
Maximum positive grid voltage	600 V	—
Maximum grid resistance	20 kOhm	—



SOURCE DATA APPENDIX

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 · Thyatron

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapour	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Arc voltage at 15 A	12 V	—
Preheating time	10 min	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	15 kV	—
Maximum peak forward voltage	15 kV	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum average anode current	10 A	—
Maximum intermittent average current	15 A	Tav<=10s
Maximum peak anode current	45 A	—
Maximum surge current	600 A	Duration<=0.1s
Maximum grid pulse voltage	600 V	—
Maximum grid resistance	20 kohm	—

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