



ELECTRONIC TUBE REFERENCE

PL5557

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

THYRATRON

Mercury-vapor thyatron for relay, alarm/protection, and controlled-rectifier service. Grid triggering controls substantial power.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Thyatron	
PEAK INVERSE VOLTAGE	5000 V
FORWARD VOLTAGE DROP	2 V
WARM-UP TIME	5 s
<i>Mercury-vapour thyatron for relay, alarm/protection and controlled-rectifier service.</i>	

Mercury-vapour thyatron for relay, alarm/protection and controlled-rectifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V3

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V3

Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heizung : direkt If	5 A	Heizung : direkt If = 5.0 A

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitances Cag	3.3 pF	Capacitances Capacitances Cag = 3.3 pF
Kapazitäten Cgk	5 pF	Capacitances Kapazitäten Cgk = 5.0 pF

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Varc	12 V	Typical characteristics Varc 12 V
Peak anode voltage	2500 V	Limiting values Vap = ma.. 2500 V
Peak inverse anode voltage	5000 V	Limiting values Va invp = max. 5000 V
Grid voltage	10 V	Limiting values _Vg = max. 10 V1)
Iap (f <	25 Hz	Limiting values Iap (f < 25 c/s) max. 1A
Iap (f <	1 A	Limiting values Iap (f < 25 c/s) max. 1A
Iap (f ?	2 A	Limiting values Iap (f ? 25 c/a) = max. 2A
Anode current	15 s	Limiting values Ia (Tav = max. 15 s)= max. 0.5 A
Anode current	500 mA	Limiting values Ia (Tav = max. 15 s)= max. 0.5 A
Grid current	15 s	Limiting values Ig (Tav = max. 15 s)= max. 0.05 A
Grid current	50 mA	Limiting values Ig (Tav = max. 15 s)= max. 0.05 A

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
trig	-80 degC	Limiting values trig = 35-80 °C
Surge current	0.1 s	Limiting values Isurge (T=max.0.1 s) = max. 40 A
Surge current	40 A	Limiting values Isurge (T=max.0.1 s) = max. 40 A
L (VA VA VA VAYAY	4 V	Limiting values L (VA VA VA VAYAY4 V.



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Thyatron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating : direct Ve	2.5 a	Heating : direct Ve = 2,5 V
Capacitaaces Cag	3.3 a	Capacitaaces Cag = 3,3 pF

TUBE TINKER

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