

ELECTRONIC TUBE REFERENCE

PL5632

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Xenon-filled negative-control thyatron for relay, motor-control, and ignitron-firing service. Grid triggering switches substantial current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 8.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 IgnitronPowerSwitch	
MAXIMUM PLATE VOLTAGE	900 V
MAXIMUM CATHODE CURRENT	2.5 A
PEAK FORWARD CURRENT	30 A
FORWARD VOLTAGE DROP	0 V
WARM-UP TIME	0 s
Xenon-filled negative-control thyatron for relay, motor-control and ignitor-firing service.	

Xenon-filled negative-control thyatron for relay, motor-control and ignitor-firing 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 · IgnitronPowerSwitch

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacites Cag	3 pF	Capacitances Capacites Cag = 3 pF
Kapazitäten Cgk	14 pF	Capacitances Kapazitäten Cgk = 14 pF

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Kenndaten Varc	10 V	Typical characteristics Kenndaten Varc = 10 V
Ionization time	10 µsec	Typical characteristics Tion = 10 µsec
Deionization time	1000 µsec	Typical characteristics Tdion = 1000 µsec
Peak anode voltage	900 V	Limiting values Vap = max. 900 V
Grid voltage	300 V	Limiting values -Vg = max. 300 V3)
Grid voltage	10 V	Limiting values -Vg = max. 10 V4)
Peak cathode current	30 A	Limiting values Ikp = max. 30 A
Cathode current	5 s	Limiting values Ik (Tav = 5 sec.) = max. 2.5 A
Cathode current	2.5 A	Limiting values Ik (Tav = 5 sec.) = max. 2.5 A
Isurge (max	0.1 s	Limiting values Isurge (max. 0.1 sec.) = max. 300 A5)
Isurge (max	300 A	Limiting values Isurge (max. 0.1 sec.) = max. 300 A5)
Igp = max	500 mA	Limiting values Igp = max. 0.5 A

1999 Philips E-Z

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1999 PHILIPS E-Z

Section 1 · IgnitronPowerSwitch

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	2.5 V	—
Heater current	8.5 A	—
Heating : direct Vr	2.5 a	Heating : direct Vr = 2,5V
Heating : direct Ve	2.5 a	Heating : direct Ve = 2,5V
2) Load return	2 a	2) Load return
Capacités Cag	31 a	Capacités Cag = 31F
Capacités Cag	3 a	Capacités Cag = 3 pF
Capacites Cag	3 a	Capacites Cag = 3 pF

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
E)Fuse in anode circuit max. 10 A (recommended 6 A)	6 s	E)Fuse in anode circuit max. 10 A (recommended 6 A)
Sicherung im Anodenkreis max. 10 A (empfohlener Wert 6 A)	6 S	Sicherung im Anodenkreis max. 10 A (empfohlener Wert 6 A)
5)Fuse in anode circuit max. 10 A (recommended 6 A)	5 s	5)Fuse in anode circuit max. 10 A (recommended 6 A)
Sicherung im Anodenkreis max, 10 A (empfohlener Wert 6 A)	6 S	Sicherung im Anodenkreis max, 10 A (empfohlener Wert 6 A)