

ELECTRONIC TUBE REFERENCE

PL5545

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Xenon-filled power thyratron for motor control and ignitron-firing service. Its massive filament supports heavy controlled gas-discharge current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 21 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 IgnitronPowerSwitch	
MAXIMUM CATHODE CURRENT	6.4 A
PEAK INVERSE VOLTAGE	1500 V
PEAK FORWARD CURRENT	80 A
FORWARD VOLTAGE DROP	2 V
WARM-UP TIME	0 s
Xenon-filled power thyratron for motor control and ignitron-firing service.	

Xenon-filled power thyratron for motor control and ignitron-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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignitor current	21 A	If - 21 A

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitances Cag	0.8 pF	Capacitances Capacitances Cag = 0.8 pF
Capacit	4 s	Capacitances Capacit4s
Kanazitgten Cgk	45 pF	Capacitances Kanazitgten Cgk = 45 pF

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical characteristics Varc	12 V	Typical characteristics Typical characteristics Varc = 12V
Deionization time	250 V	Typical characteristics Tdion(Vg_250V)= 50 µs
Deionization time	-12 V	Typical characteristics Tdion(Vg= -12V)= 500 µs
Peak inverse anode voltage	1500 V	Limiting values Va invp = max. 1500 V
Grid voltage	250 V	Limiting values -Vg = max. 250 V
Grid voltage	10 V	Limiting values -Vg = max. 10 V 1)
Peak cathode current	80 A	Limiting values Ikp = max. 80 A
Cathode current	15 s	Limiting values Ik (Tav=iaax. 15 s) = max. 6.4 A
Cathode current	6.4 A	Limiting values Ik (Tav=iaax. 15 s) = max. 6.4 A
Grid current	200 mA	Limiting values Ig = max. 0.2A2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Surge current	0.1 s	Limiting values Isurge(T=max.0.1 s) = max. 1120 A
Surge current	1120 A	Limiting values Isurge(T=max.0.1 s) = max. 1120 A
Grid resistance	-100 kohm	Limiting values Rg . = 0.5-100 kR



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 · IgnitronPowerSwitch

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	2.5 V	—
Heater current	21 A	—
Heating : direct Ve	5 a	Heating : direct Ve = 2,5 V + 5%
Capacitances Cag	0.8 a	Capacitances Cag = 0,8
Capacités Core	45 a	Capacités Core = 45
Capacitznces Cag	0.8 a	Capacitznces Cag = 0,8 pF
Typicaé characteristics Varce	12 a	Typicaé characteristics Varce = 12V

TUBE TINKER

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