

ELECTRONIC TUBE REFERENCE

PL6755

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Mercury-vapor and inert-gas power thyatron for lighting dimming, motor control, controlled rectifiers, ignitron firing, and AC control.

GENERAL CHARACTERISTICS

BASE DESIGNATION	SUPER JUMBO	BASE PINS	—
NOMINAL HEATER	2.5 V / 11 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 IgnitronPowerSwitch	
PEAK FORWARD CURRENT	40 A
FORWARD VOLTAGE DROP	2 V
WARM-UP TIME	0 s
Mercury-vapour and inert-gas-filled power thyatron for lighting dimming, motor control, controlled rectifiers, ignitron firing and AC control.	

Mercury-vapour and inert-gas-filled power thyatron for lighting dimming, motor control, controlled rectifiers, ignitron firing and AC control.

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	7 pF	Capacitances Capacites Cag = 7 pF
Grid-cathode capacitance	10 pF	Capacitances Cgk = 10 pF

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Arc voltage drop	12 V	Typical characteristics Varc = 12 V
Ionization time	10 μsec	Typical characteristics Tion = 10 μsec
Deionization time	500 μsec	Typical characteristics Tdion = 500 μsec
Peak anode voltage	1500 V	Limiting values Vap = .max. 1000 1500 V
Grid voltage	300 V	Limiting values -Vg = max. 500 300 V
Grid voltage	10 V	Limiting values -Vg = max. AO 10 V2)
Cathode current	15 s	Limiting values Ik(Tav = max.15 sec) = max. 3.6 3.2 A
Cathode current	3.2 A	Limiting values Ik(Tav = max.15 sec) = max. 3.6 3.2 A
Grid current	250 mA	Limiting values Ig = max. 0.25 0.25 A
Surge current	200 A	Limiting values Isurge(Tav max.0.lsec)= max. 200 200 A3)
Peak anode voltage	1000 V	Limiting values Vap = max. 1500 1000 V
Grid voltage	300 V	Limiting values -Vg = max. 300 300 V
Grid voltage	10 V	Limiting values -Vg = max. 10 10 V2)
Cathode current	15 s	Limiting values Ik (Tav = max. 15 sec) = max. 0.5 1.25 3.2 3.6 A

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode current	3.6 A	Limiting values Ik (Tav = max. 15 sec) = max. 0.5 1.25 3.2 3.6 A
Peak cathode current	40 A	Limiting values Ikp = max. 40 A
Grid current	8 A	Limiting values Ig = max. 28 14 8 Aeff6)
Surge current	200 A	Limiting values Isurge(Tav = max.0.lsec)= max. 200 200 A3)



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Juerschnitt der bilegsamen Anodenleitung2	4 ma	Juerschnitt der bilegsamen Anodenleitung2 4 ma?
Heating 1 direct Ve	2.5 V	Heating 1 direct Ve = 2,5V
Capacités Cag	7 pF	Capacités Cag 7 pF
Fuse 1n anode circuit max	10 A	3)Fuse 1n anode circuit max. 10 A
Sicherung im Anodenkreis max,	10 A	Sicherung im Anodenkreis max, 10 A
Sicherung im Anodenkreis max	10 A	Sicherung im Anodenkreis max. 10 A