

Mercury-vapor thyatron for relay, DC motor-speed control, regulated rectifiers, and ignitron firing. Its heavy heater supports substantial switching.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 4.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 IgnitronPowerSwitch	
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM CATHODE CURRENT	2.5 A
PEAK INVERSE VOLTAGE	1000 V
PEAK FORWARD CURRENT	40 A
FORWARD VOLTAGE DROP	2 V
Mercury-vapour thyatron for relay, DC motor-speed control, regulated rectifiers and ignitron firing.	

Mercury-vapour thyatron for relay, DC motor-speed control, regulated rectifiers and ignitron firing.

SOURCE OPERATING CONDITIONS

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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
Heizung ; indirekt If	4.5 A	Heizung ; indirekt If = 4.5A

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitances Cag	3.6 pF	Capacitances Capacitances Cag = 3.6 pF
Capacitds	7.8 pF	Capacitances Capacitds - = 7.8 pF

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical characteristics Varc	12 V	Typical characteristics Typical characteristics Varc = 12 V
Stifte	1 a	Typical characteristics Stifte 1 and 4 Heizfaden. Stift 2 KatodenrUckleitung
Peak anode voltage	1000 V	Limiting values Vap = max. 1000 V
Peak inverse anode voltage	1000 V	Limiting values Va invp = max. 1000 V
Grid voltage	500 V	Limiting values -Vg = max. 500 V
Grid voltage	10 V	Limiting values -Vg = max. 10 V 1)
Peak cathode current	5 A	Limiting values Ikp (f < 25 c/a) = max. 5 A
Peak cathode current	15 A	Limiting values Ikp (f = 25 c/a) = max. 15 A
Cathode current	15 s	Limiting values Ik (Tav max. 15 s) = max. 2.5 A
Cathode current	2.5 A	Limiting values Ik (Tav max. 15 s) = max. 2.5 A
Grid current	15 s	Limiting values Ig (Tav= max. 15 s) = max. 0.25 A

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid current	250 mA	Limiting values I_g ($T_{av} = \max. 15 \text{ s}$) = max. 0.25 A
Surge current	0.1 s	Limiting values I_{surge} ($T = \max. 0.1 \text{ s}$) = max. 200 A
Surge current	200 A	Limiting values I_{surge} ($T = \max. 0.1 \text{ s}$) = max. 200 A
Peak cathode current	40 A	Limiting values $I_{kp} = \max. 40 \text{ A}$



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1999 Philips E-Z

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1999 PHILIPS E-Z

Section 1 · IgnitronPowerSwitch

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5 V	—
Heater current	4.5 A	—
Heating : indirect V_e	5 a	Heating : indirect $V_e = 5,0 \text{ V} + 5\%$
Capacitances C_{ag}	3.6 a	Capacitances $C_{ag} = 3,6 \text{ PP}$
Heating : indirect V_e	5 a	Heating : indirect $V_e = 5,0 \text{ V} + 5\%$
— Pins 1 and 4 heater, pin 2 cathode return	2 s	— Pins 1 and 4 heater, pin 2 cathode return
3 In firing circuits of ignitrons	3 s	3 In firing circuits of ignitrons

TUBE TINKER

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