

ELECTRONIC TUBE REFERENCE

Z803U

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RELAYCONTROL SWITCH

Cold-cathode relay and control switching tube. Available source classification establishes heaterless gas-discharge control service without enough detail for a narrower description.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 RelayControlSwitch
No fixed ratings recorded.
Gas-discharge device.

Z803U is a Other device. Gas-filled cold-cathode relay tube with positive starter and anode voltages for sensitive control service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V2

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V2

Section 1 · RelayControlSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply voltage range	170–290 V	—
Maximum anode supply voltage	—290 V	—
Maximum peak cathode current	—200 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Starter breakdown voltage at 280 V anode	128–137 V	—
Starter burning voltage	95 V	—
Ionization delay at 0.5 V overdrive	2 ms	—
Ionization delay at 4 V overdrive	0.1 ms	—
Deionization time at 0-20 mA peak	3.5 ms	—
Deionization time at 20-60 mA peak	16 ms	—
Maximum starter-breakdown drift per 2000h	—2 %	Absolute

1971 Mullard Gas Filled Tubes

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

1971 MULLARD GAS FILLED TUBES

Section 1 · RelayControlSwitch

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode maintaining voltage	105 V	—
Trigger ignition voltage	132 V	—



SOURCE DATA APPENDIX

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 · RelayControlSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode maintaining voltage	105 V	—
Starter ignition voltage minimum	128 V	—
Starter ignition voltage maximum	137 V	—
Maximum anode supply voltage	290 V	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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