

ELECTRONIC TUBE REFERENCE

Z70W

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
THYRATRON

Cold-cathode gas-discharge switching tube. Available source material confirms heaterless thyatron-type construction but does not establish a narrower application.

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 Thyatron
No fixed ratings recorded.
Subminiature cold-cathode trigger tube with positive starter and priming cathode.

Z70W is a Other device in the supplied Amperex literature. Cold-cathode gas-filled trigger tube for pulse/control circuits; source explicitly co-designates the numeric and Z-series type.



SOURCE OPERATING CONDITIONS

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage range	200–310 V	DC
Peak cathode current	16 mA	—
Recommended priming resistor	18 MΩ	—
Cathode current range	2–4 mA	DC

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Starter-to-cathode breakdown voltage	137–153 V	—
Anode-to-cathode sustaining voltage	111–121 V	—
Anode-to-cathode breakdown voltage	>325 V	—



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 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode maintaining voltage at 3 mA	111–121 V	—
Pulsed starter ignition voltage	—175 V	Maximum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total starter pulse plus bias voltage	200 V	—
Minimum anode supply voltage	200— V	—
Peak cathode current	—16 mA	—
Negative starter pulse voltage at 300 V supply	—30 V	—
Negative starter pulse voltage at 200 V supply	—50 V	—



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 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply voltage	250 V	—
Starter ignition voltage minimum	137 V	—
Starter ignition voltage maximum	153 V	—
Anode maintaining voltage	116 V	I _a =3mA
Cathode current	3 mA	—