

Cold-cathode symbol indicator intended for direct electronic character readout. Its shaped glow-discharge cathodes display specialized symbols, with manufacturer sources documenting operating conditions and mechanical/display characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Special 13-pin	BASE PINS	13
NOMINAL HEATER	– / –	PARALLEL HEATER	– / –
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Nixie	
MAXIMUM PLATE VOLTAGE	170 V
MAXIMUM CATHODE CURRENT	2.5 mA
MINIMUM REGULATOR CURRENT	1 A
MAXIMUM REGULATOR CURRENT	3 A
STARTING VOLTAGE	170 V
MAINTAINING VOLTAGE	140 V
Single indicator/counting section. Nixie-specific electrical ratings and operating data are retained in TUBE_SECTION_PARAMETER.	

ZM1024 is a cold-cathode symbol indicator, classified as Nixie for this batch. The supplied datasheet provides cold-cathode display ratings, operating conditions, and mechanical/display information.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1969 Nixie Valvo

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

1969 NIXIE VALVO

Section 1 · Nixie

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition voltage	170 V	Typical
Burning voltage	140 V	Typical
Extinction voltage	118 V	Typical
Life with changing display	100000 h	At 2 mA; change every 1000 h or more often
Symbol display	direct glow symbols	Cold-cathode symbol indicator
Base	Special 13-pin	Socket B8S 702 28 / alternatives

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous cathode current	1–3 mA	Absolute range
Recommended cathode current	2 mA	Published operating point
Maximum pulse cathode current	—10 mA	Pulse operation
Envelope temperature	—70 degC	Absolute maximum

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Nixie Random Datasheets

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

196X NIXIE RANDOM DATASHEETS

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply Voltage Minimum	170 V	Published datasheet value
Extinguishing Voltage Minimum	120 V	Published datasheet value
Cathode/Anode Current Minimum	1 mA	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition Voltage Maximum	160 V	Published datasheet value
Cathode/Anode Current Maximum	2.5 mA	Published datasheet value

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