

ELECTRONIC TUBE REFERENCE

ZM1041S

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

Red-filtered cold-cathode multi-symbol indicator displaying plus, minus, and letters U, W, X, Y, and Z.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Nixie	
MAXIMUM REGULATOR CURRENT	4.5 A
STARTING VOLTAGE	170 V
MAINTAINING VOLTAGE	141 V
Single cold-cathode Nixie indicator section; Czech datasheet electrical values are retained in the parameter table.	

Gas-filled cold-cathode Nixie symbol indicator for direct optical display of +, – and the letters U, W, X, Y and Z in measuring and counting instruments. ZM1041S is the red-filtered version.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1977 Nixie Tesla

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

1977 NIXIE TESLA

Section 1 · Nixie

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition voltage	170 V	Published static value
Extinction voltage	120— V	Published minimum
Burning voltage	141 V	Published operating voltage
Symbol set	+ - U W X Y Z	Direct glow symbols

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating current	4.5 mA	Published static operating point
Series resistor	6.8 kOhm	Published static operating point
Continuous current	—3 mA	Published limit
Pulse current	—6 mA	Pulse duration 20 ms
Peak current	—20 mA	Published peak limit
Cathode-to-cathode voltage	—120 V	Published limit
Ambient temperature	0–70 degC	Published range

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