ELECTRONIC TUBE REFERENCE

ZM1183

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Gas-filled cold-cathode front-view symbol indicator displaying plus, minus, AC-wave, and ohm symbols. Manufacturer data specify approximately 180 V ignition, 145 V normal glow, and 115 V extinction voltage.

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 Nixie	
MINIMUM REGULATOR CURRENT	1.5 A
MAXIMUM REGULATOR CURRENT	3 A
STARTING VOLTAGE	180 V
MAINTAINING VOLTAGE	145 V

Single cold-cathode display section. Ignition, sustaining/extinction voltages, cathode-current limits, and display/mechanical data are retained below.

The ZM1183 is a gas-filled cold-cathode Nixie display tube. The catalog shows +, -, ~, ohm with a front viewing arrangement and a character height of max 13 mm. Its ignition voltage is 180 V, extinction voltage is about 115 V, and normal glow voltage is about 145 V. The source is French-language material translated to English for this record.

SOURCE OPERATING CONDITIONS

1973 Nixie Siemens

SOURCE PDF

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

1973 NIXIE SIEMENS

Section 1 · Nixie

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition voltage	**180 V**	Maximum/typical threshold shown in source table
Operating glow voltage	**145 V**	Approximate service voltage
Extinction voltage	**115 V**	Source table value
Nominal cathode current	**2.25 mA**	Main symbol/digit

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum supply voltage	**180 V**	Absolute limit table
Cathode current	**1.5–3 mA**	Main symbol/digit continuous range
Maximum peak cathode current	**4 mA**	Main symbol/digit
Envelope temperature minimum	**-20 degC**	Operating envelope temperature range
Envelope temperature maximum	**70 degC**	Operating envelope temperature range
Display characters	**+, -, ~, ohm**	Translated from French source
Display orientation	**front**	Viewing orientation
Character height	**max 13 mm**	Display geometry
Maximum tube height	**24.5 mm**	Mechanical dimension
Maximum tube width/diameter	**20.0 x 27.5 mm**	Mechanical dimension as printed

Tube Tinker

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

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker