ELECTRONIC TUBE REFERENCE

ZM1334K

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Cold-cathode gas-filled Nixie numerical indicator displaying digits 0–9 with left and right decimal points in a 13.1 mm side-view format.

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

STARTING VOLTAGE	175 V

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

The ZM1334K is a gas-filled cold-cathode Nixie display tube. The catalog shows 0 to 9 with left and right decimal points with a side viewing arrangement and a character height of 13.1 mm. Its ignition voltage is 175 V, extinction voltage is about 115 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	**175 V**	Maximum/typical threshold shown in source table
Extinction voltage	**115 V**	Source table value
Cathode current (source sp value)	**14 mA**	Pulse-supply table; source abbreviation 'sp'
Cathode current (source cr value)	**2 mA**	Pulse-supply table; source abbreviation 'cr'
Mean current (source sp value)	**0.7 mA**	Pulse-supply table; source abbreviation 'sp'
Mean current (source cr value)	**0.1 mA**	Pulse-supply table; source abbreviation 'cr'

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum supply voltage	**175 V**	Absolute limit table
Cathode current limit (source sp value)	**11 mA**	Pulse-supply table; source abbreviation 'sp'
Cathode current limit (source cr value)	**1 mA**	Pulse-supply table; source abbreviation 'cr'
Mean cathode current limit (source sp value)	**1.6 mA**	Pulse-supply table; source abbreviation 'sp'
Mean cathode current limit (source cr value)	**0.16 mA**	Pulse-supply table; source abbreviation 'cr'

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak cathode current limit (source sp value)	**18 mA**	Pulse-supply table; source abbreviation 'sp'
Peak cathode current limit (source cr value)	**3 mA**	Pulse-supply table; source abbreviation 'cr'
Envelope temperature minimum	**-20 degC**	Operating envelope temperature range
Envelope temperature maximum	**70 degC**	Operating envelope temperature range
Display characters	**0 to 9 with left and right decimal points**	Translated from French source
Display orientation	**side**	Viewing orientation
Character height	**13.1 mm**	Display geometry
Maximum tube height	**30.5 mm**	Mechanical dimension
Maximum tube width/diameter	**13 mm**	Mechanical dimension as printed
Supply mode	**Pulse supply**	Catalog column heading