ELECTRONIC TUBE REFERENCE

B6033

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Gas-filled cold-cathode Nixie numerical indicator designed to display decimal digits by selective glow discharge of shaped cathodes.

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

MAXIMUM CATHODE CURRENT	4.5 mA
MINIMUM REGULATOR CURRENT	1.5 mA
MAXIMUM REGULATOR CURRENT	3 mA
STARTING VOLTAGE	250 V

Gas-filled cold-cathode Nixie numerical-readout tube, Super size.

B6033 is a gas-filled cold-cathode Nixie numerical/readout device. The shared catalog identifies it with the B6033 electrical family, using a maximum ionization voltage of 250 V and a recommended minimum supply of 250 V.

SOURCE OPERATING CONDITIONS

1961 Nixie Burroughs

SOURCE PDF

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

1961 NIXIE BURROUGHS

Section 1 · Nixie

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization Voltage Maximum	**250 V**	—
Supply Voltage Minimum	**250 V**	Catalog minimum supply voltage
Cathode Current Peak	**4.5 mA**	—
Cathode Current Average	**2.25 mA**	—
Individual Cathode Wattage Maximum	**0.8 W**	—
Test Supply Voltage	**250 V**	—
Test Series Resistor	**43 kOhm**	—
Display Size Class	**Super**	—
Numeral Height	**0.808 in**	—
Recommended Socket	**HSK106 or HSK112**	—
Recommended Supply Voltage	**250 V**	Series resistor 43 kOhm
Recommended Series Resistor	**43 kOhm**	Supply voltage 250 V
Recommended Supply Voltage	**300 V**	Series resistor 68 kOhm
Recommended Series Resistor	**68 kOhm**	Supply voltage 300 V

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Current Minimum	**1.5 mA**	—
Cathode Current Maximum	**3 mA**	—

ENVIRONMENTAL

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Shock	**55 G**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vibration	**10 G**	60 cps
Operating Temperature Range	**-65 to +70 C**	—
Altitude	**70000 ft**	—

SOURCE OPERATING CONDITIONS

SOURCE PDF

196X Burroughs Nixie

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

196X BURROUGHS NIXIE

Section 1 · Nixie

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization voltage	**250 V**	Absolute rating; maximum
Minimum supply voltage	**250 V**	Absolute rating; minimum recommended supply
Cathode current	**4.5 mA**	Peak
Cathode current	**2.25 mA**	Average
Individual cathode dissipation	**0.8 W**	Maximum
Anode supply voltage	**250 V**	BasicCircuit test condition
Anode series resistor	**43 kOhm**	BasicCircuit test condition
Cathode current	**1.5–3 mA**	BasicCircuit test condition
Numeral height	**0.808 in**	Super
Recommended anode series resistor	**43 kOhm**	Anode supply 250 V
Recommended anode series resistor	**68 kOhm**	Anode supply 300 V
Pre-bias voltage	**75–120 V**	Referenced to on cathode

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

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