ELECTRONIC TUBE REFERENCE

BD216

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Gas-filled cold-cathode alphanumeric Nixie indicator designed to display letters and other characters by selective glow discharge.

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 mA
MINIMUM REGULATOR CURRENT	1.5 mA
MAXIMUM REGULATOR CURRENT	3 mA
STARTING VOLTAGE	170 V

Gas-filled cold-cathode Nixie special-character indicator; alphabetic A through K, less I, special-character tube (alias of B5018). Electrical/mechanical characteristics are stated to be generally comparable to the corresponding regular numerical tube family (6844A).

BD216 is a gas-filled cold-cathode Nixie numerical/readout device. The shared catalog identifies it with the 6844A electrical family, using a maximum ionization voltage of 170 V and a recommended minimum supply of 170 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	**170 V**	—
Supply Voltage Minimum	**170 V**	Catalog minimum supply voltage
Cathode Current Peak	**4 mA**	—
Cathode Current Average	**2 mA**	—
Individual Cathode Wattage Maximum	**0.4 W**	—
Test Supply Voltage	**170 V**	—
Test Series Resistor	**15 kOhm**	—
Display Size Class	**Standard**	—
Numeral Height	**0.61 in**	—
Recommended Socket	**HSK106 or HSK112**	—
Recommended Supply Voltage	**170 V**	Series resistor 15 kOhm
Recommended Series Resistor	**15 kOhm**	Supply voltage 170 V
Recommended Supply Voltage	**250 V**	Series resistor 56 kOhm
Recommended Series Resistor	**56 kOhm**	Supply voltage 250 V
Recommended Supply Voltage	**300 V**	Series resistor 82 kOhm
Recommended Series Resistor	**82 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**	—
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	**170 V**	Absolute rating; maximum
Minimum supply voltage	**170 V**	Absolute rating; minimum recommended supply
Cathode current	**4 mA**	Peak
Cathode current	**2 mA**	Average
Individual cathode dissipation	**0.4 W**	Maximum
Anode supply voltage	**170 V**	BasicCircuit test condition
Anode series resistor	**15 kOhm**	BasicCircuit test condition
Cathode current	**1.5–3 mA**	BasicCircuit test condition
Numeral height	**0.61 in**	Standard
Recommended anode series resistor	**15 kOhm**	Anode supply 170 V
Recommended anode series resistor	**56 kOhm**	Anode supply 250 V
Recommended anode series resistor	**82 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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