



ELECTRONIC TUBE REFERENCE

BD302

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	13
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
STARTING VOLTAGE	170 V
<i>Special-purpose display/switching section. Published non-promoted ratings are retained in TUBE_SECTION_PARAMETER.</i>	

BD-302 designation for the 6844A-style gas-filled cold-cathode ten-digit Nixie indicator. The sheet provides cold-cathode starting/supply limits and recommended current-limiting resistor operation.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Nixie Burroughs

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

1961 NIXIE BURROUGHS

Section 1 · Nixie

DESCRIPTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Display Principle	Glow discharge	Gas-filled cold-cathode readout principle



SOURCE OPERATING CONDITIONS

1963 Burroughs

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

1963 BURROUGHS

Section 1 · Nixie

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization Voltage	170 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Anode Current	4 mA	—
Average Anode Current	2.5 mA	—
Individual Cathode Dissipation	0.4 W	—
Anode Supply Voltage	170 V	—
Anode Series Resistance	15000 ohm	—
Anode Current Minimum	1.5 mA	—
Anode Current Maximum	2.5 mA	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Nixie Random Datasheets

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

196X NIXIE RANDOM DATASHEETS

Section 1 · Nixie

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage minimum	170 V	—
Ionization voltage maximum	170 V	—
Peak cathode current maximum	4 mA	—
Individual cathode power dissipation maximum	0.4 W	—
Anode series resistor	15 k Ω	SupplyVoltage=170V
Anode series resistor	47 k Ω	SupplyVoltage=250V
Anode series resistor	75 k Ω	SupplyVoltage=300V

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode current range	1.5–2.5 mA	—

TUBE TINKER

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