

7432
276-1824

QUAD TWO-INPUT OR GATE

GENERAL DESCRIPTION

The 7432 is a quad 2-input OR gate utilizing TTL. (Transistor-Transistor Logic) to provide the basic functions used in the implementation of digital integrated circuit systems. The device is completely compatible with all other Series 74 devices.

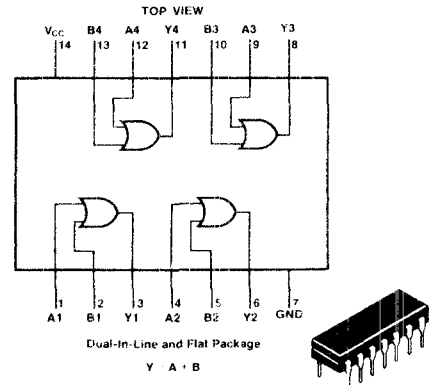
FEATURES

- Popular digital logic block
- Saves inverter function when sign inversion is not needed

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	5.25V
Input Voltage.....	5.5V
Output Voltage.....	5.5V
Operating Temperature Range.....	0°C to 70°C
Storage Temperature Range.....	-65°C to 150°C
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



7441
276-1804

BCD TO DECIMAL DECODER/DRIVER

GENERAL DESCRIPTION

The 7441 is monolithic binary-coded-decimal to decimal decoder. The BCD number to be decoded is applied to the four input lines; and the unique output corresponding to the decimal equivalent of the input number falls to a logical 0 level. Outputs are designed to drive gas-filled-readout tubes but are also able to operate with other low current lamps and relays.

An over-range feature provides that if binary numbers between 10 and 15 are applied to the input the least significant bit of these numbers (0 through 5) will be decoded on the output.

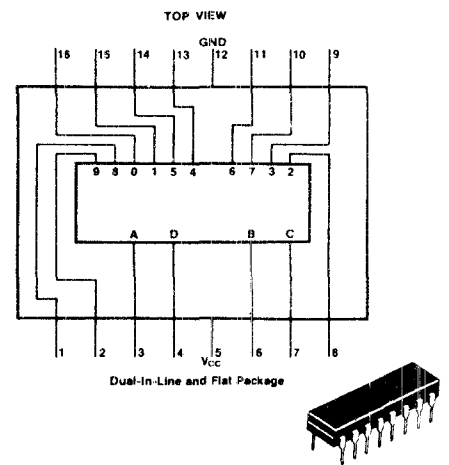
FEATURES

- Drive cold-cathode, numeric indicator tubes directly
- Fully decoded inputs
- Low leakage current 1.8µ A @ 50V
- Low power dissipation 105 mW typical

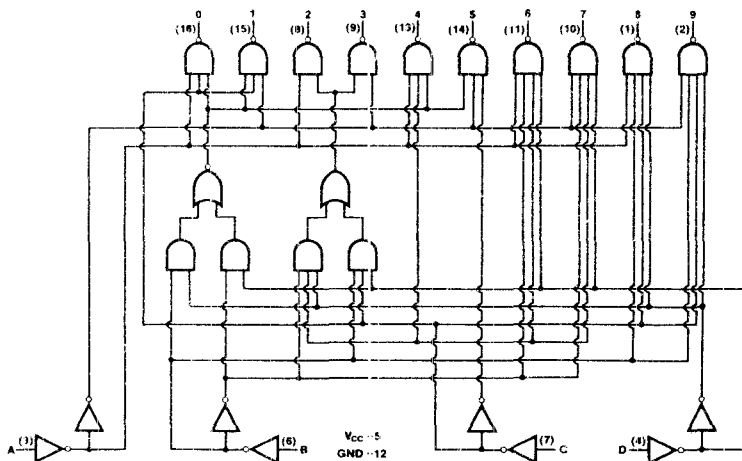
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V _{CC}).....	5.25V
Output Voltage.....	70V
Input Voltage.....	5.5V
Operating Temperature Range.....	0°C to +70°C
Storage Temperature Range.....	-65°C to +150°C
Lead Temperature (Soldering, 10 sec).....	300°C

PIN CONNECTION



LOGIC DIAGRAM



TRUTH TABLE

INPUT				LOW OUTPUT
D	C	B	A	
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	0	0	0	8
1	0	0	1	9
(OVER RANGE)				
1	0	1	0	0
1	0	1	1	1
1	1	0	0	2
1	1	0	1	3
1	1	1	0	4
1	1	1	1	5