HEF4071B

Quad 2-input OR gate

Rev. 7 — 15 November 2011 Product data sheet

1. General description

The HEF4071B is a quad 2-input OR gate. The outputs are fully buffered for highest noise immunity and pattern insensitivity to output impedance variations.

It operates over a recommended V_{DD} power supply range of 3 V to 15 V referenced to V_{SS} (usually ground). Unused inputs must be connected to V_{DD}, V_{SS}, or another input.

2. Features and benefits

- Fully static operation
- 5 V, 10 V, and 15 V parametric ratings
- Standardized symmetrical output characteristics
- Inputs and outputs are protected against electrostatic effects
- Specified from −40 °C to +85 °C and −40 °C to +125 °C
- Complies with JEDEC standard JESD 13-B

3. Ordering information

Table 1. Ordering information

All types operate from −40 °C to +125 °C.

Type number	Package		
	Name	Description	Version
HEF4071BP	DIP14	plastic dual in-line package; 14 leads (300 mil)	SOT27-1
HEF4071BT	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1

4. Functional diagram

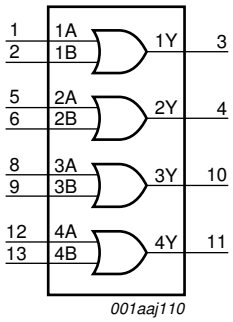

Fig 1. Functional diagram

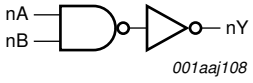

Fig 2. Logic diagram (one gate)

5. Pinning information

5.1 Pinning

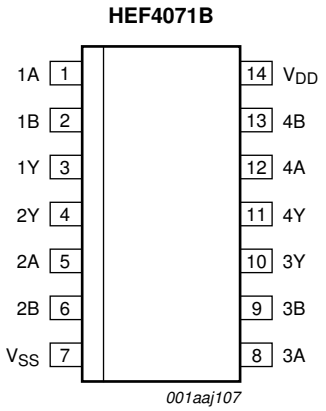

Fig 3. Pin configuration

5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1A to 4A	1, 5, 8, 12	input
1B to 4B	2, 6, 9, 13	input
1Y to 4Y	3, 4, 10, 11	output
V_{SS}	7	ground (0 V)
V_{DD}	14	supply voltage

6. Functional description

Table 3. Function table[1]

Input		Output
nA	**nB**	**nY**
L	L	L
L	H	H
H	L	H
H	H	H

[1] H = HIGH voltage level; L = LOW voltage level.