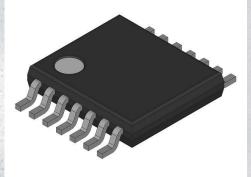


74HCT02PW/S400118 Datasheet

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DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description 74HCT02PW/S400118-DG NXP USA Inc. 74HCT02PW/S400118 IC GATE NOR 4CH 2-INP 14TSSOP NOR Gate IC 4 Channel 14-TSSOP

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Manufacturer Product Number:	Manufacturer:					
74HCT02PW/S400118	NXP USA Inc.					
Series:	Product Status:					
74HCT	Active					
Logic Type:	Number of Circuits:					
NOR Gate	4					
Number of Inputs:	Features:					
2						
Voltage - Supply:	Current - Quiescent (Max):					
4.5V ~ 5.5V	2 μΑ					
Current - Output High, Low:	Input Logic Level - Low:					
4mA, 4mA	0.8V					
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:					
2V	19ns @ 4.5V, 50pF					
Operating Temperature:	Mounting Type:					
-40°C ~ 125°C	Surface Mount					
Supplier Device Package:	Package / Case:					
14-TSSOP	14-TSSOP (0.173", 4.40mm Width)					
Base Product Number:						
74HCT02						

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):					
Not applicable	3 (168 Hours)					
REACH Status:	ECCN:					
Vendor Undefined	EAR99					
HTSUS:						
8542.39.0001						



Product data sheet

1. General description

The 74HC02; 74HCT02 is a quad 2-input NOR gate. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

2. Features and benefits

- Wide supply voltage range from 2.0 V to 6.0 V
- CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Input levels:
 - For 74HC02: CMOS level
 - For 74HCT02: TTL level
- Complies with JEDEC standards:
 - JESD8C (2.7 V to 3.6 V)
 - JESD7A (2.0 V to 6.0 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

3. Ordering information

Table 1. Ordering information

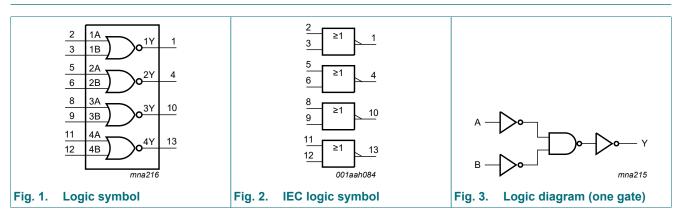
Type number	Package	Package									
	Temperature range	Name	Description	Version							
74HC02D 74HCT02D	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	<u>SOT108-1</u>							
74HC02PW 74HCT02PW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	<u>SOT402-1</u>							
74HC02BQ 74HCT02BQ	-40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm	<u>SOT762-1</u>							
74HC02BZ 74HCT02BZ	-40 °C to +125 °C	DHXQFN14	plastic, leadless dual in-line compatible thermal enhanced extreme thin quad flat package; no leads; 14 terminals; 0.4 mm pitch; body 2 mm × 2 mm × 0.48 mm	<u>SOT8014-1</u>							

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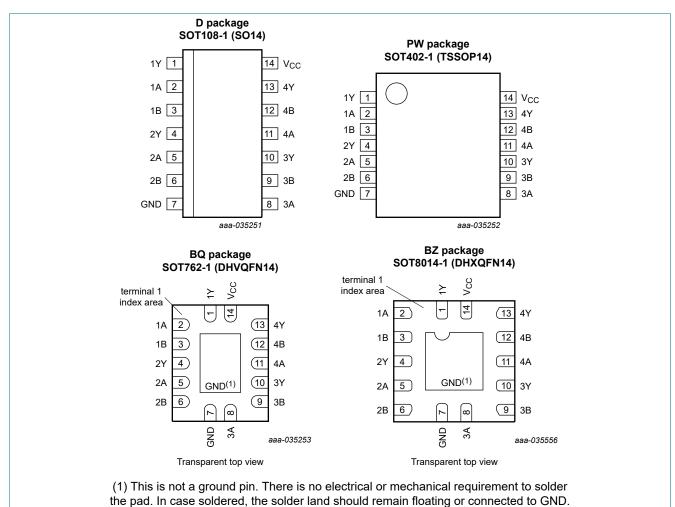
74HC02; 74HCT02

Quad 2-input NOR gate

4. Functional diagram



5. Pinning information



5.1. Pinning

74HC_HCT02

5.2. Pin description

Table 2. Pin description								
Symbol	Pin	Description						
1Y, 2Y, 3Y, 4Y	1, 4, 10, 13	data output						
1A, 2A, 3A, 4A	2, 5, 8, 11	data input						
1B, 2B, 3B, 4B	3, 6, 9,12	data input						
GND	7	ground (0 V)						
V _{CC}	14	supply voltage						

6. Functional description

Table 3. Function table

H = HIGH voltage level; L = LOW voltage level; X = don't care.

Input		Output
nA	nB	nY
L	L	Н
Х	Н	L
Н	X	L

7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		Min	Max	Unit
V _{CC}	supply voltage			-0.5	+7	V
I _{IK}	input clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V	[1]	-	±20	mA
I _{ОК}	output clamping current	$V_{\rm O}$ < -0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	[1]	-	±20	mA
lo	output current	$-0.5 V < V_O < V_{CC} + 0.5 V$		-	±25	mA
I _{CC}	supply current			-	50	mA
I _{GND}	ground current			-50	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	SOT108-1 SOT402-1 SOT762-1	[2]	-	500	mW
		SOT8016-1		-	250	mW

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

For SOT108-1 (SO14) package: P_{tot} derates linearly with 10.1 mW/K above 100 °C.
 For SOT402-1 (TSSOP14) package: P_{tot} derates linearly with 7.3 mW/K above 81 °C.

For SOT762-1 (DHVQFN14) package: P_{tot} derates linearly with 9.6 mW/K above 98 °C.

Quad 2-input NOR gate

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC02			74HCT02			Unit
			Min	Тур	Max	Min	Тур	Max	
V _{CC}	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V _{CC}	0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	-	+125	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 2.0 V	-	-	625	-	-	-	ns/V
		V _{CC} = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V _{CC} = 6.0 V	-	-	83	-	-	-	ns/V

9. Static characteristics

Table 6. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74HC02										
VIH	HIGH-level	V _{CC} = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V _{CC} = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
VIL	LOW-level	V _{CC} = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V _{CC} = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V _{OH}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I _O = -20 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I _O = -20 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -20 μA; V _{CC} = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I _O = -4.0 mA; V _{CC} = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I _O = -5.2 mA; V _{CC} = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I _O = 20 μA; V _{CC} = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 20 μA; V _{CC} = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 mA; V _{CC} = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I _O = 5.2 mA; V _{CC} = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
l _l	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0$ V	-	-	±0.1	-	±1	-	±1	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	2.0	-	20	-	40	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF

74HC02; 74HCT02

Quad 2-input NOR gate

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT0	2	,								
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -4.0 mA	3.98	4.32	-	3.84	-	3.7	-	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
		I _O = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		l _O = 5.2 mA	-	0.15	0.26	-	0.33	-	0.4	V
I _I	input leakage current	$V_1 = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	±0.1	-	±1	-	±1	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	2.0	-	20	-	40	μA
ΔI _{CC}	additional supply current	per input pin; $V_1 = V_{CC} - 2.1 \text{ V}; I_0 = 0 \text{ A};$ other inputs at V_{CC} or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	150	540	-	675	-	735	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; $C_L = 50 pF$; for test circuit see Fig. 5.

Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Тур	Мах	Min	Max	Min	Max	
74HC02	·									
t _{pd}	propagation	nA, nB to nY; see Fig. 4 [1]								
	delay	V _{CC} = 2.0 V	-	25	90	-	115	-	135	ns
		V _{CC} = 4.5 V	-	9	18	-	23	-	27	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	7	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	7	15	-	20	-	23	ns
t _t	transition time	see <u>Fig. 4</u> [2]								
		V _{CC} = 2.0 V	-	19	75	-	95	-	110	ns
		V _{CC} = 4.5 V	-	7	15	-	19	-	22	ns
		V _{CC} = 6.0 V	-	6	13	-	16	-	19	ns
C _{PD}	power dissipation capacitance	per package; [3] $V_l = GND$ to V_{CC}	-	22	-	-	-	-	-	pF

74HC02; 74HCT02

Quad 2-input NOR gate

Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Max	Min	Max	Min	Max	
74HCT02										
t _{pd}	propagation	nA, nB to nY; see Fig. 4 [1]								
	delay	V _{CC} = 4.5 V	-	11	19	-	24	-	29	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	9	-	-	-	-	-	ns
t _t	transition time	V _{CC} = 4.5 V; see <u>Fig. 4</u> [2]	-	7	15	-	19	-	22	ns
C _{PD}	power dissipation capacitance	per package; [3] V _I = GND to V _{CC} - 1.5 V	-	24	-	-	-	-	-	pF

[1] t_{pd} is the same as t_{PHL} and t_{PLH} .

[2] t_t is the same as t_{THL} and t_{TLH} .

 C_{PD} is used to determine the dynamic power dissipation (P_D in μ W): $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$ where: [3]

 f_i = input frequency in MHz;

fo = output frequency in MHz;

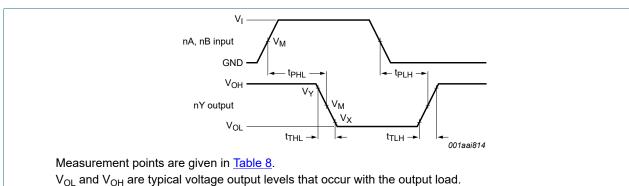
 C_{L} = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\sum (C_L \times V_{CC}^2 \times f_o) = \text{sum of outputs.}$

10.1. Waveforms and test circuit

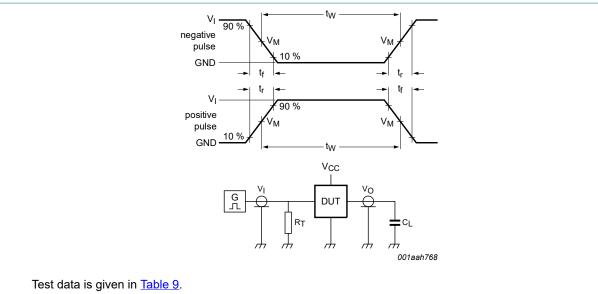


Input to output propagation delays Fig. 4.

Table 8. Measurement points									
Туре	Input	Output							
	V _M	V _M	V _X	V _Y					
74HC02	0.5V _{CC}	0.5V _{CC}	0.1V _{CC}	0.9V _{CC}					
74HCT02	1.3 V	1.3 V	0.1V _{CC}	0.9V _{CC}					

74HC02; 74HCT02

Quad 2-input NOR gate



Definitions test circuit:

 R_T = termination resistance should be equal to output impedance Z_o of the pulse generator;

 C_L = load capacitance including jig and probe capacitance.

Fig. 5. Test circuit for measuring switching times

Table 9. Test data

Туре	e Input		Load	Test
	VI	t _r , t _f	CL	
74HC02	V _{CC}	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}
74HCT02	3.0 V	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}

11. Package outline

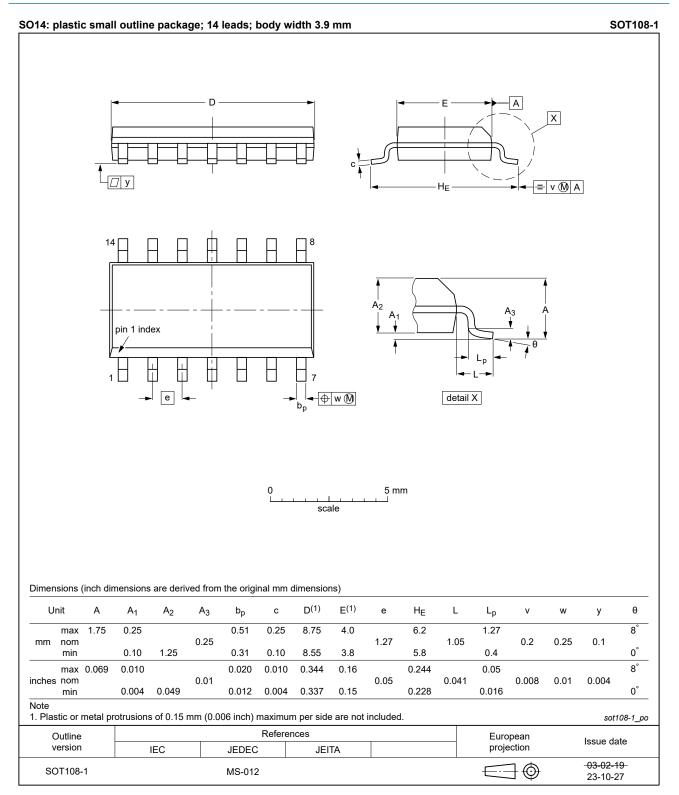


Fig. 6. Package outline SOT108-1 (SO14)

74HC02; 74HCT02

Quad 2-input NOR gate

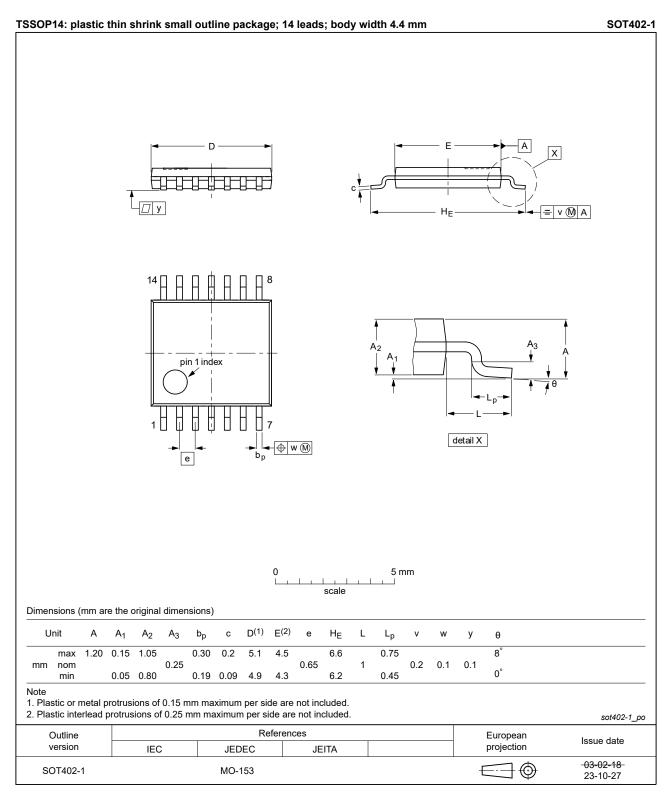


Fig. 7. Package outline SOT402-1 (TSSOP14)

74HC02; 74HCT02

Quad 2-input NOR gate

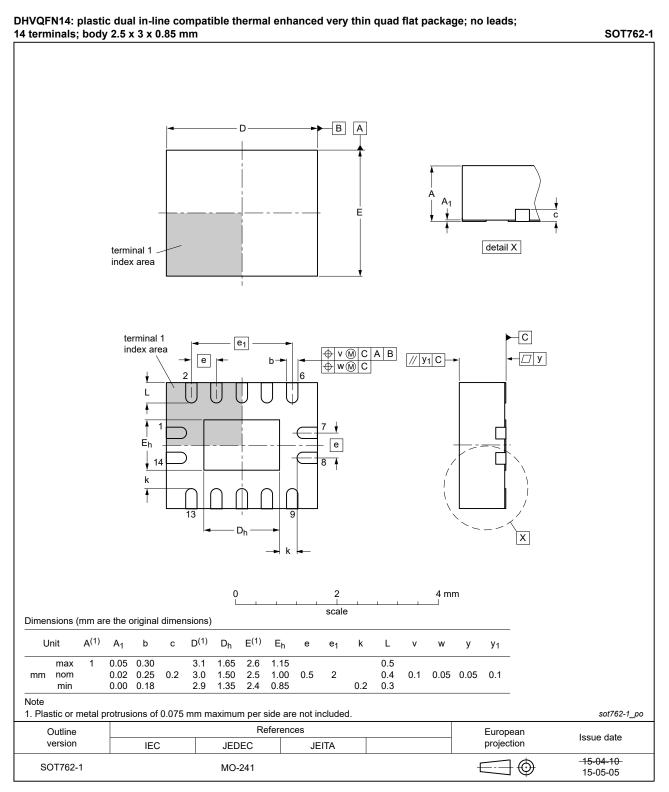
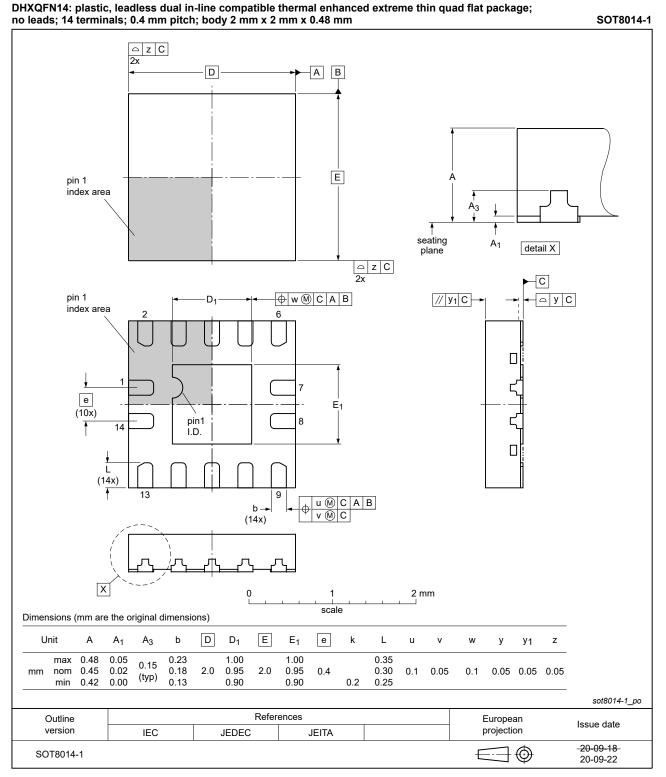


Fig. 8. Package outline SOT762-1 (DHVQFN14)

74HC02; 74HCT02

Quad 2-input NOR gate





12. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
TTL	Transistor-Transistor Logic

13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT02 v.9	20240215	Product data sheet	-	74HC_HCT02 v.8
Modifications:		SD specification updated <u>7</u> : Aligned SO and TSSO	-	atest JEDEC standard. drawings to JEDEC MS-012 and
74HC_HCT02 v.8	20230209	Product data sheet	-	74HC_HCT02 v.7
Modifications:	Added type numbers 74HC02BZ and 74HCT02BZ (SOT8014-1/DHXQFN14).			
74HC_HCT02 v.7	20210810	Product data sheet	-	74HC_HCT02 v.6
Modifications:	 <u>Section 2</u> updated. Type numbers 74HC02DB and 74HCT02DB (SOT337-1/SSOP14) removed. 			
74HC_HCT02 v.6	20200407	Product data sheet	-	74HC_HCT02 v.5
Modifications:	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. <u>Table 4</u>: Derating values for P_{tot} total power dissipation have been updated. 			
74HC_HCT02 v.5	20151126	Product data sheet	-	74HC_HCT02 v.4
Modifications:	Type numbers 74HC02N and 74HCT02N (SOT27-1) removed.			
74HC_HCT02 v.4	20120904	Product data sheet	-	74HC_HCT02 v.3
Modifications:	Conditions for V _{OH} , I _I and I _{CC} updated to the family specification (errata).			
74HC_HCT02 v.3	20080918	Product data sheet	-	74HC_HCT02_CNV v.2
Modifications:	guidelines of NXP Sen • Legal texts	of this data sheet has been niconductors. have been adapted to the numbers 74HC02BQ and	e new company nar	

74HC02; 74HCT02

Quad 2-input NOR gate

14. Legal information

Data sheet status

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

 Please consult the most recently issued document before initiating or completing a design.

- [2] The term 'short data sheet' is explained in section "Definitions".
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at <u>https://www.nexperia.com</u>.

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Product data sheet

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74HC02; 74HCT02

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