

### 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

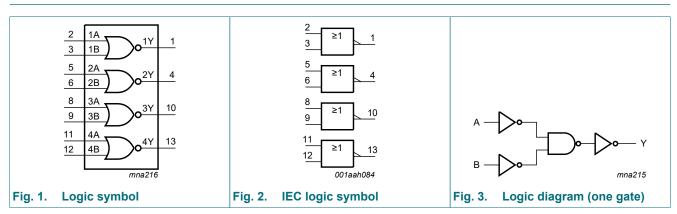
### 3. Ordering information

#### Table 1. Ordering information

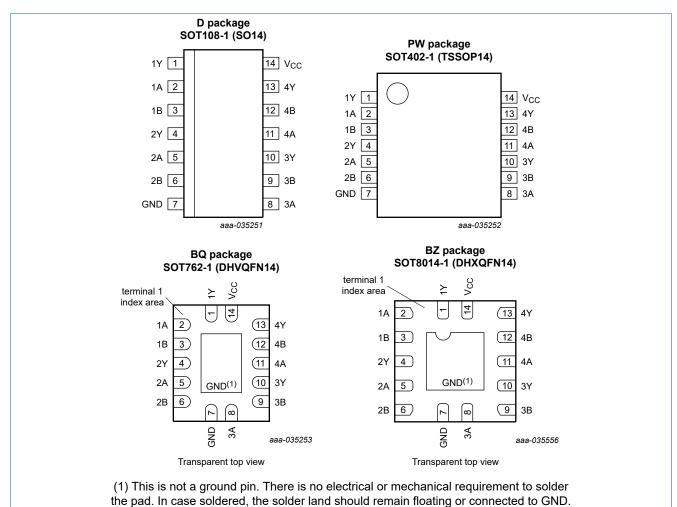
Type number	Package	Package								
	Temperature range	Name	Description	Version						
74HC02D 74HCT02D	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	<u>SOT108-1</u>						
74HC02PW 74HCT02PW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; 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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## 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 <sub>CC</sub>	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 <sub>CC</sub>	supply voltage			-0.5	+7	V
I <sub>IK</sub>	input clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V	[1]	-	±20	mA
I <sub>ОК</sub>	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 <sub>CC</sub>	supply current			-	50	mA
I <sub>GND</sub>	ground current			-50	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	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<sub>tot</sub> derates linearly with 10.1 mW/K above 100 °C.
 For SOT402-1 (TSSOP14) package: P<sub>tot</sub> derates linearly with 7.3 mW/K above 81 °C.

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

# 8. Recommended operating conditions

#### Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions 74HC02			Unit				
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	-	-	-	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V <sub>CC</sub> = 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 t	o +85 °C	-40 °C to	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC02	1									
VIH	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I <sub>O</sub> = -5.2 mA; V <sub>CC</sub> = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 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 <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I <sub>O</sub> = 5.2 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_1 = V_{CC}$ or GND; $V_{CC} = 6.0$ V	-	-	±0.1	-	±1	-	±1	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	2.0	-	20	-	40	μA
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

#### **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	
74HCT0	2					1			•	
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -4.0 mA	3.98	4.32	-	3.84	-	3.7	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 5.2 mA	-	0.15	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_1 = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	±0.1	-	±1	-	±1	μA
I <sub>CC</sub>	supply current	$V_1 = V_{CC}$ or GND; $I_0 = 0$ A; $V_{CC} = 5.5$ V	-	-	2.0	-	20	-	40	μA
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A};$ 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	ymbol 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										
t <sub>pd</sub>	propagation	nA, nB to nY; see Fig. 4 [1]								
	delay	V <sub>CC</sub> = 2.0 V	-	25	90	-	115	-	135	ns
		V <sub>CC</sub> = 4.5 V	-	9	18	-	23	-	27	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	7	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	7	15	-	20	-	23	ns
t <sub>t</sub>	transition time	see <u>Fig. 4</u> [2]								
		V <sub>CC</sub> = 2.0 V	-	19	75	-	95	-	110	ns
		V <sub>CC</sub> = 4.5 V	-	7	15	-	19	-	22	ns
		V <sub>CC</sub> = 6.0 V	-	6	13	-	16	-	19	ns
C <sub>PD</sub>	power dissipation capacitance	per package; [3] $V_I = GND$ to $V_{CC}$	-	22	-	-	-	-	-	pF

#### **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	
74HCT02	2									
t <sub>pd</sub>	propagation	nA, nB to nY; see Fig. 4 [1]								
	delay	V <sub>CC</sub> = 4.5 V	-	11	19	-	24	-	29	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	9	-	-	-	-	-	ns
t <sub>t</sub>	transition time	V <sub>CC</sub> = 4.5 V; see <u>Fig. 4</u> [2]	-	7	15	-	19	-	22	ns
C <sub>PD</sub>	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  $t_{TLH}$ .

[3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ 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:

 $f_i$  = input frequency in MHz;

 $f_o = output$  frequency in MHz;

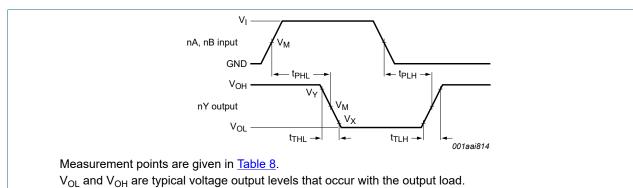
 $C_L$  = output load capacitance in pF;

V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

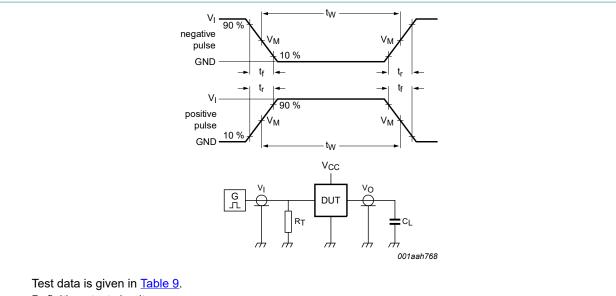
#### 10.1. Waveforms and test circuit



Input to output propagation delays Fig. 4.

Table 8. Measurement points							
Туре	Input	Output	Dutput				
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>			
74HC02	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>			
74HCT02	1.3 V	1.3 V	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>			

#### **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.

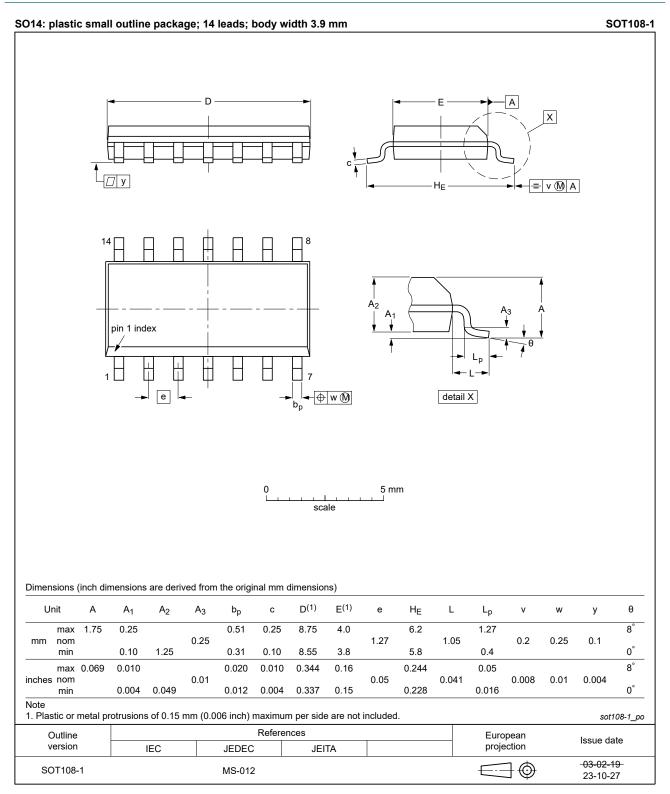
#### Fig. 5. Test circuit for measuring switching times

#### Table 9. Test data

Туре	Input Lo		Load	Test
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	
74HC02	V <sub>CC</sub>	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>
74HCT02	3.0 V	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>

#### **Quad 2-input NOR gate**

## **11. Package outline**



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

#### **Quad 2-input NOR gate**

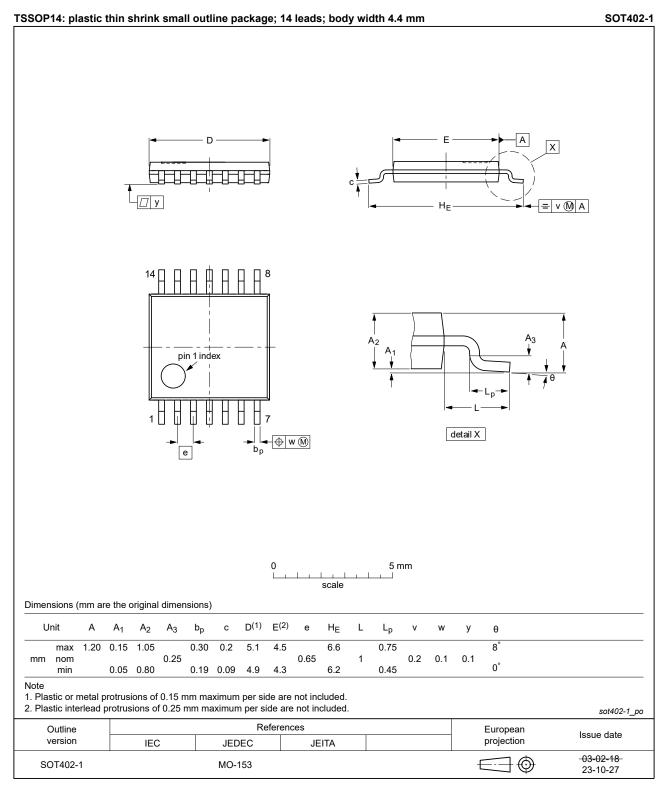


Fig. 7. Package outline SOT402-1 (TSSOP14)

#### **Quad 2-input NOR gate**

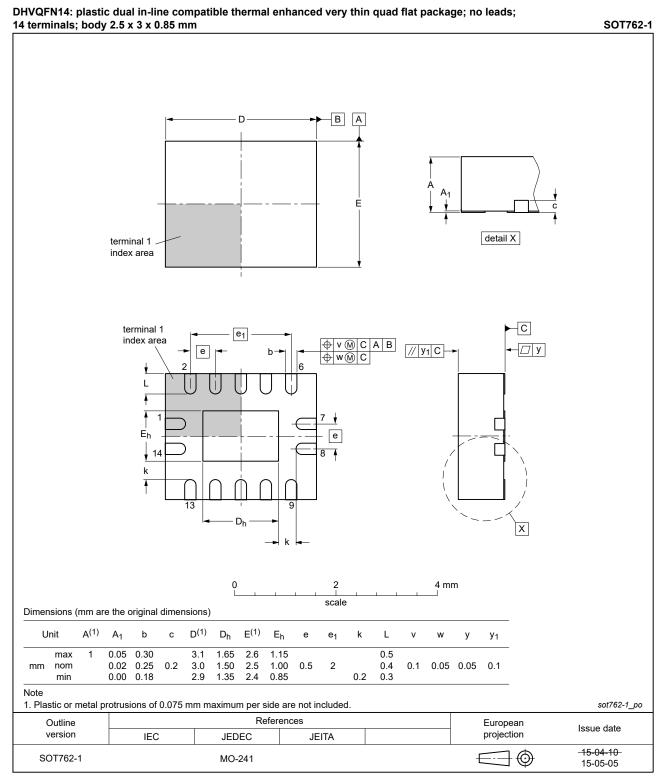
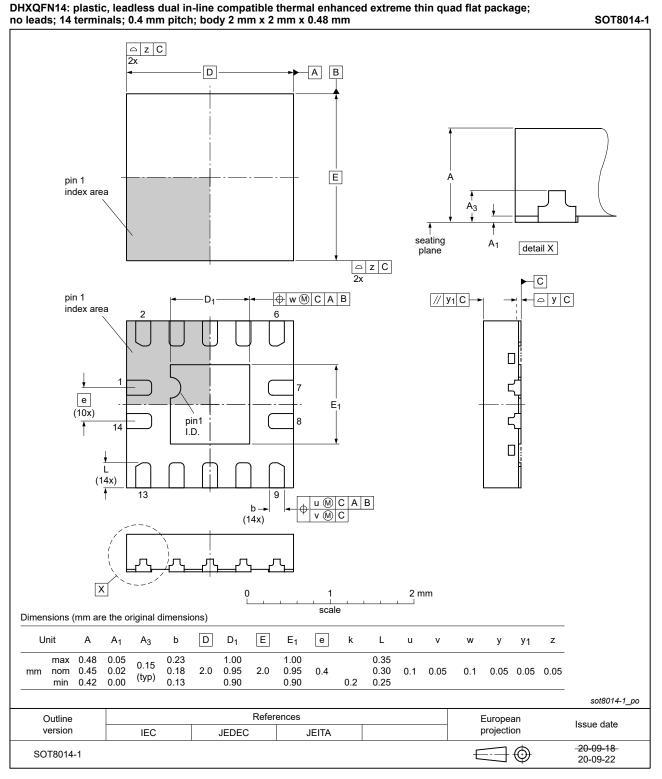


Fig. 8. Package outline SOT762-1 (DHVQFN14)

#### 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:	<ul> <li><u>Section 2</u>: ESD specification updated according to the latest JEDEC standard.</li> <li><u>Fig. 6</u>, <u>Fig. 7</u>: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153</li> </ul>				
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:	<ul> <li><u>Section 2</u> updated.</li> <li>Type numbers 74HC02DB and 74HCT02DB (SOT337-1/SSOP14) removed.</li> </ul>				
74HC_HCT02 v.6	20200407	Product data sheet	-	74HC_HCT02 v.5	
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li><u>Table 4</u>: Derating values for P<sub>tot</sub> total power dissipation have been updated.</li> </ul>				
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:	<ul> <li>Conditions for V<sub>OH</sub>, I<sub>I</sub> and I<sub>CC</sub> updated to the family specification (errata).</li> </ul>				
74HC_HCT02 v.3	20080918	Product data sheet	-	74HC_HCT02_CNV v.2	
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Added type numbers 74HC02BQ and 74HCT02BQ (DHVQFN14 package)</li> </ul>				
74HC HCT02 CNV v.2	19970827	Product specification	_	_	

# 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".
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#### **Quad 2-input NOR gate**

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#### **Quad 2-input NOR gate**

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