# 74HC30-Q100; 74HCT30-Q100

# 8-input NAND gate Rev. 1 — 30 January 2013

**Product data sheet** 

#### 1. **General description**

The 74HC30-Q100; 74HCT30-Q100 is an 8-input NAND gate. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

#### 2. **Features and benefits**

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
  - ◆ Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Complies with JEDEC standard JESD7A
- Input levels:
  - ◆ For 74HC30-Q100: CMOS level
  - For 74HCT30-Q100: TTL level
- ESD protection:
  - MIL-STD-883, method 3015 exceeds 2000 V
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)
- Multiple package options

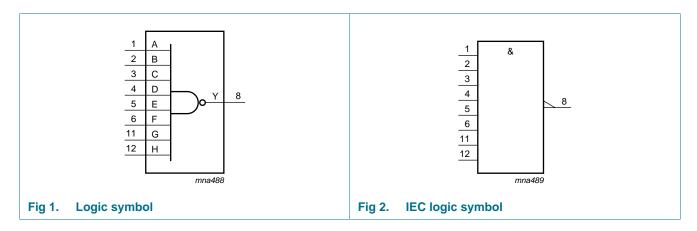
#### **Ordering information** 3.

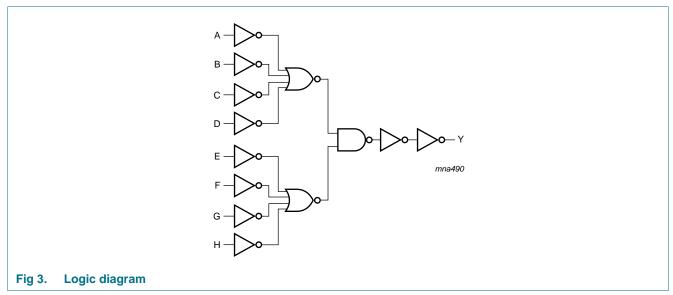
Table 1. **Ordering information** 

Type number	Package				
	Temperature range	Name	Description	Version	
74HC30D-Q100	–40 °C to +125 °C	SO14	plastic small outline package; 14 leads;	SOT108-1	
74HCT30D-Q100			body width 3.9 mm		
74HC30PW-Q100	–40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads;	SOT402-1	
74HCT30PW-Q100			body width 4.4 mm		



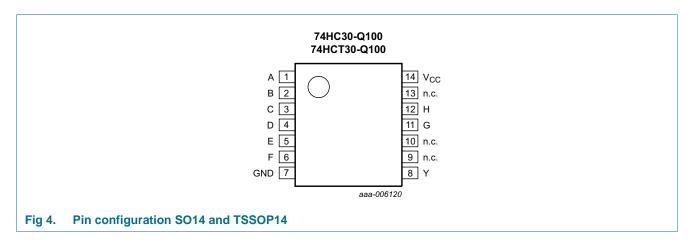
# 4. Functional diagram





# 5. Pinning information

### 5.1 Pinning



### 5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
Α	1	data input
В	2	data input
С	3	data input
D	4	data input
E	5	data input
F	6	data input
GND	7	ground (0 V)
Υ	8	data output
n.c.	9	not connected
n.c.	10	not connected
G	11	data input
Н	12	data input
n.c.	13	not connected
V <sub>CC</sub>	14	supply voltage

# 6. Functional description

Table 3. Function table[1]

Input								Output
Α	В	С	D	E	F	G	Н	Y
L	Х	Χ	Χ	Χ	Χ	Χ	Χ	Н
X	L	Х	Χ	Χ	Χ	Χ	Χ	Н
Χ	Х	L	Х	Χ	Χ	Χ	Χ	Н
Χ	Χ	Χ	L	Χ	Χ	Χ	Χ	Н
X	Χ	Χ	Χ	L	Χ	Χ	Χ	Н
X	Χ	Χ	Χ	Χ	L	Χ	Χ	Н
X	Χ	Χ	Χ	Χ	Χ	L	Χ	Н
Χ	Χ	Χ	Χ	Χ	Χ	Χ	L	Н
Н	Н	Н	Н	Н	Н	Н	Н	L

<sup>[1]</sup> H = HIGH voltage level; L = LOW voltage level; X = don't care.

### 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 <sub>IK</sub>	input clamping current	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> -	±20	mA
I <sub>OK</sub>	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> _	±20	mA
I <sub>O</sub>	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$	-	±25	mA
I <sub>CC</sub>	supply current		-	50	mA
$I_{GND}$	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation				
	SO14 and TSSOP14 packages		<u>[2]</u> -	500	mW

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

<sup>[2]</sup> For SO14 package:  $P_{tot}$  derates linearly with 8 mW/K above 70 °C. For TSSOP14 packages:  $P_{tot}$  derates linearly with 5.5 mW/K above 60 °C.

# 8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	741	HC30-Q1	100	74H	ICT30-Q	100	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 <sub>amb</sub>	ambient temperature		-40	-	+125	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC} = 2.0 \text{ V}$	-	-	625	-	-	-	ns/V
		$V_{CC} = 4.5 \text{ V}$	-	1.67	139	-	1.67	139	°C °C
		$V_{CC} = 6.0 \text{ V}$	-	-	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	+125 °C	V V V V V V V V V V V V V V V V V V V
			Min	Тур	Max	Min	Max	Min	Max	
74HC30-	·Q100			1	1	1			1	
V <sub>IH</sub>	HIGH-level	$V_{CC} = 2.0 \text{ V}$	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	$V_{CC} = 4.5 \text{ V}$	3.15	2.4	-	3.15	-	3.15	-	V
		$V_{CC} = 6.0 \text{ V}$	4.2	3.2	-	4.2	-	4.2	-	V
$V_{IL}$	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
		$V_{CC} = 6.0 \text{ V}$	-	2.8	1.8	-	1.8	-	1.8	V
$V_{OH}$	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_O = -20 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_{O} = -20 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	4.4	-	V
	input voltage  LOW-level input voltage  HIGH-level output voltage	$I_{O} = -20 \mu A; V_{CC} = 6.0 V$	5.9	6.0	-	5.9	-	5.9	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.98	4.32	-	3.84	-	3.7	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.48	5.81	-	5.34	-	5.2	-	V
$V_{OL}$		$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		$I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.26	-	0.33	-	0.4	V
I <sub>I</sub>		$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1	-	±1	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	2.0	-	20	-	40	μΑ

 Table 6.
 Static characteristics ...continued

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	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
C <sub>I</sub>	input capacitance		-	3.5	-	-	-	-	-	pF
<b>74HCT3</b>	0-Q100									
$V_{IH}$	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	1.6	-	2.0	-	2.0	-	V
$V_{IL}$	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	1.2	8.0	-	0.8	-	0.8	V
$V_{OH}$	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_{O} = -20 \mu A$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -4.0 \text{ mA}$	3.98	4.32	-	3.84	-	3.7	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ 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
		$I_{O} = 4.0 \text{ mA}$	-	0.15	0.26	-	0.33	-	0.4	V
II	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1	-	±1	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μΑ
Δl <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 2.4 \text{ V}; I_O = 0 \text{ A};$ other inputs at $V_{CC}$ or GND; $V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$	-	60	216	-	275	-	294	μА
C <sub>I</sub>	input capacitance		-	3.5	-	-	-	-	-	pF

# 10. Dynamic characteristics

 Table 7.
 Dynamic characteristics

 $GND = 0 \ V; \ C_L = 50 \ pF;$  for test circuit see <u>Figure 6</u>.

Symbol	Parameter	Conditions			25 °C		-40 °C to	+125 °C	Unit
			-	Min	Тур	Max	Max (85 °C)	Max (125 °C)	
74HC30-	-Q100								
t <sub>pd</sub>	propagation delay	A, B, C, D, E, F, G, H to Y; see <u>Figure 5</u>	<u>[1]</u>						
		$V_{CC} = 2.0 \text{ V}$		-	41	130	165	195	ns
		$V_{CC} = 4.5 \text{ V}$		-	15	26	33	39	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	12	-	-	-	ns
		$V_{CC} = 6.0 \text{ V}$		-	12	22	28	33	ns
t <sub>t</sub>	transition time	see Figure 5	[2]						
		$V_{CC} = 2.0 \text{ V}$		-	19	75	95	110	ns
		$V_{CC} = 4.5 \text{ V}$		-	7	15	19	22	ns
		$V_{CC} = 6.0 \text{ V}$		-	6	13	16	19	ns

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**Table 7. Dynamic characteristics** ...continued GND = 0 V;  $C_L = 50$  pF; for test circuit see Figure 6.

Symbol	Parameter	Conditions			25 °C		-40 °C to	o +125 °C	
				Min	Тур	Max	Max (85 °C)	Max (125 °C)	
$C_{PD}$	power dissipation capacitance	per package; $V_I = GND$ to $V_{CC}$	[3]	-	15	-	-	-	pF
74HCT3	0-Q100								
t <sub>pd</sub>	propagation delay	A, B, C, D, E, F, G, H to Y; see Figure 5	<u>[1]</u>						
		V <sub>CC</sub> = 4.5 V		-	16	28	35	42	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	12	-	-	-	ns
t <sub>t</sub>	transition time	V <sub>CC</sub> = 4.5 V; see <u>Figure 5</u>	[2]	-	7	15	19	22	ns
$C_{PD}$	power dissipation capacitance	per package; V <sub>I</sub> = GND to V <sub>CC</sub> – 1.5 V	[3]	-	15	-	-	-	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<sub>i</sub> = input frequency in MHz;

 $f_o$  = output frequency in MHz;

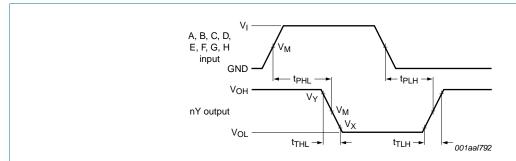
C<sub>L</sub> = output load capacitance in pF;

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

N = number of inputs switching;

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

### 11. Waveforms



Measurement points are given in Table 8.

 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical voltage output levels that occur with the output load.

Fig 5. Input to output propagation delays

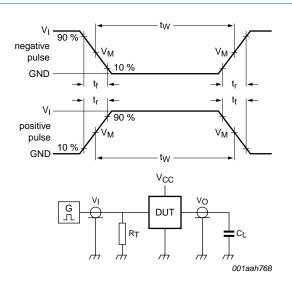
Table 8. Measurement points

Туре	Input	Output	Output								
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>							
74HC30-Q100	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>							
74HCT30-Q100	1.3 V	1.3 V	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>							

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Test data is given in Table 9.

Definitions for test circuit:

 $R_T$  = termination resistance should be equal to the output impedance  $Z_0$  of the pulse generator.

 $C_L$  = load capacitance including jig and probe capacitance.

Fig 6. Test circuit for measuring switching times

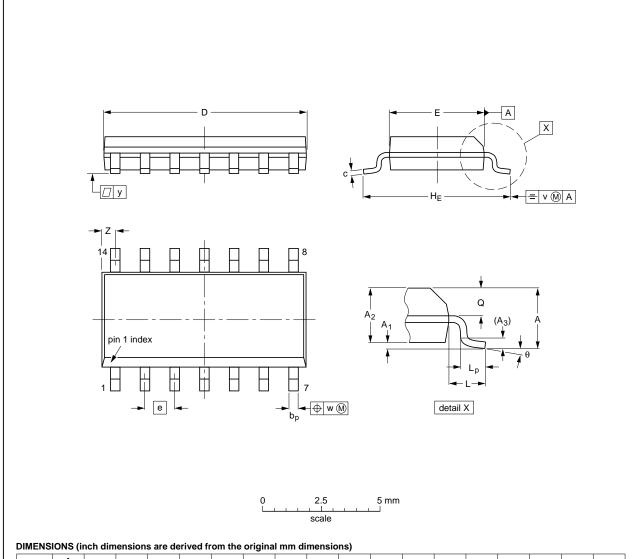
Table 9. Test data

Туре	Input		Load	Test
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	
74HC30-Q100	V <sub>CC</sub>	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>
74HCT30-Q100	3.0 V	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>

# 12. Package outline

SO14: plastic small outline package; 14 leads; body width 3.9 mm

SOT108-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(1)</sup>	е	HE	L	Lp	Q	v	w	у	z <sup>(1)</sup>	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	8.75 8.55	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8°
inches	0.069	0.010 0.004	0.057 0.049	0.01	1	0.0100 0.0075	0.35 0.34	0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016	0.028 0.024	0.01	0.01	0.004	0.028 0.012	0°

#### Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT108-1	076E06	MS-012				<del>99-12-27</del> 03-02-19

Fig 7. Package outline SOT108-1 (SO14)

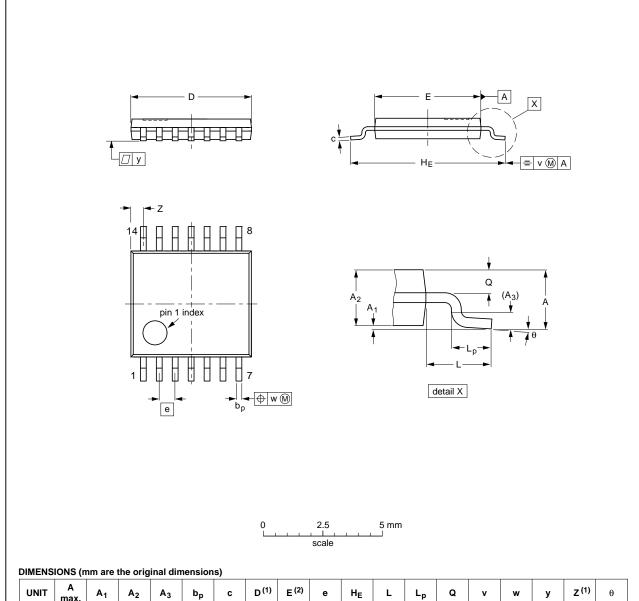
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TSSOP14: plastic thin shrink small outline package; 14 leads; body width 4.4 mm

SOT402-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E (2)	е	HE	L	Lp	Q	v	w	у	Z <sup>(1)</sup>	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	5.1 4.9	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.72 0.38	8° 0°

#### Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

VERSION IEC JEDEC JEITA PROJECTION	DATE	ISSUE DAT	EUROPEAN	RENCES	REFER		OUTLINE		
SOT402.1 MO.153	DATE	ISSUE DAT	PROJECTION	JEITA	JEDEC	IEC	VERSION		
03-1		<del>99-12-27</del> 03-02-18			MO-153		SOT402-1		

Fig 8. Package outline SOT402-1 (TSSOP14)

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# 13. Abbreviations

#### Table 10. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
LSTTL	Low-power Schottky Transistor-Transistor Logic
MM	Machine Model
MIL	Military
TTL	Transistor-Transistor Logic

# 14. Revision history

#### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT30_Q100 v.1	20130130	Product data sheet	-	-

### 15. Legal information

#### 15.1 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.

- [1] 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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