1. **General description**

The 74HC30; 74HCT30 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_{CC}.

Features and benefits 2.

- Complies with JEDEC standard JESD7A
- Input levels:
 - For 74HC30: CMOS level
 - For 74HCT30: TTL level
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

Ordering information 3.

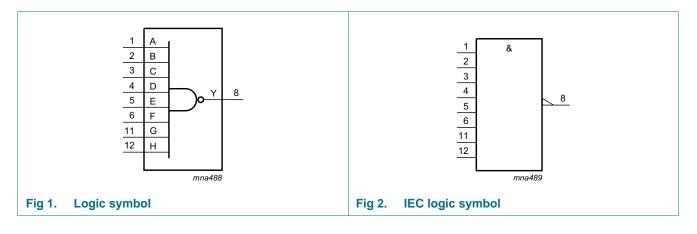
Table 1. **Ordering information**

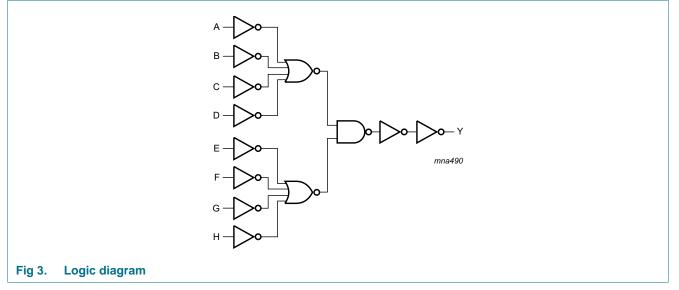
Type number	Package						
	Temperature range	Name	Description	Version			
74HC30D	–40 °C to +125 °C	SO14	plastic small outline package; 14 leads;	SOT108-1			
74HCT30D			body width 3.9 mm				
74HC30DB	–40 °C to +125 °C	SSOP14	plastic shrink small outline package; 14 leads; body	SOT337-1			
74HCT30DB			width 5.3 mm				
74HC30PW	–40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads;	SOT402-1			
74HCT30PW			body width 4.4 mm				



8-input NAND gate

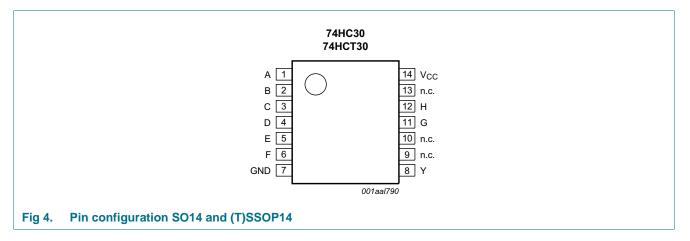
4. Functional diagram





5. Pinning information

5.1 Pinning



5.2 Pin description

Symbol	Pin	Description
A	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)
Y	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 _{CC}	14	supply voltage

6. Functional description

Table 3. Function table^[1]

Input								Output
Α	В	C	D	E	F	G	Н	Y
L	Х	Х	Х	Х	Х	Х	Х	Н
Х	L	Х	Х	Х	Х	Х	Х	Н
Х	Х	L	Х	Х	Х	Х	Х	Н
Х	Х	Х	L	Х	Х	Х	Х	Н
Х	Х	Х	Х	L	Х	Х	Х	Н
Х	Х	Х	Х	Х	L	Х	Х	Н
Х	Х	Х	Х	Х	Х	L	Х	Н
Х	Х	Х	Х	Х	Х	Х	L	Н
Н	Н	Н	Н	Н	Н	Н	Н	L

[1] 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 _{IK}	input clamping current	V_{I} < -0.5 V or V_{I} > V_{CC} + 0.5 V	<u>[1]</u>	-	±20	mA
I _{OK}	output clamping current	V_{O} < -0.5 V or V_{O} > V_{CC} + 0.5 V	<u>[1]</u>	-	±20	mA
lo	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$		-	±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	SO14, (T)SSOP14 packages	<u>[2]</u>	-	500	mW

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

[2] For SO14 package: Ptot derates linearly with 8 mW/K above 70 °C.

For (T)SSOP14 packages: Ptot 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		74HC30			74HCT30		
			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
$\Delta t / \Delta V$	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 te	o +85 °C	–40 °C to	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Мах	-
74HC30	I.		1	1			1	1	-	-1
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
V _{IL}	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}		$V_{I} = V_{IH} \text{ or } V_{IL}$								
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
		$I_{O} = -20 \ \mu A; \ V_{CC} = 6.0 \ V$	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 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	$I_{O} = 20 \ \mu A; \ V_{CC} = 2.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \ \mu\text{A}; \ V_{CC} = 4.5 \ V$	-	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 mA; V_{CC} = 4.5 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
lı	input leakage current	$V_{I} = V_{CC} \text{ or } GND;$ $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1	-	±1	μA
I _{CC}	supply current		-	-	2.0	-	20	-	40	μA

8-input NAND gate

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	
Cı	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT3	0						1	1	1	
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	$V_{CC} = 4.5 V \text{ to } 5.5 V$	-	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	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 mA	-	0.15	0.26	-	0.33	-	0.4	V
I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	±0.1	-	±1	-	±1	μA
I _{CC}	supply current		-	-	2.0	-	20	-	40	μA
ΔI _{CC}	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; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	60	216	-	275	-	294	μΑ
CI	input capacitance		-	3.5	-	-	-	-	-	pF

Static characteristics ... continued Table 6.

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

10. Dynamic characteristics

Table 7. **Dynamic characteristics**

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

Parameter	Conditions		25 °C			–40 °C to	Unit	
		Min	Тур	Max	Max (85 °C)	Max (125 °C)	_	
t _{pd} propagation delay	A, B, C, D, E, F, G, H to Y; see <u>Figure 5</u>	<u>[1]</u>						
	$V_{CC} = 2.0 V$		-	41	130	165	195	ns
	$V_{CC} = 4.5 V$		-	15	26	33	39	ns
	$V_{CC} = 5.0 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	12	-	-	-	ns
	$V_{\rm CC} = 6.0 \ V$		-	12	22	28	33	ns
transition time	see <u>Figure 5</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
	propagation delay	$\label{eq:propagation delay} \begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:propagation delay} \begin{array}{ c c c } A, B, C, D, E, F, G, H \text{ to } Y; & [1]\\ \hline & \text{see Figure 5}\\ \hline & V_{CC} = 2.0 \ V\\ \hline & V_{CC} = 4.5 \ V\\ \hline & V_{CC} = 5.0 \ V; \ C_L = 15 \ pF\\ \hline & V_{CC} = 6.0 \ V\\ \hline & \text{transition time} \\ \hline & \begin{array}{ c c } & \text{see Figure 5}\\ \hline & V_{CC} = 2.0 \ V\\ \hline & V_{CC} = 2.0 \ V\\ \hline & V_{CC} = 4.5 \ V\\ \hline & V_{CC} = 4.5 \ V\\ \hline & \end{array} $	$\begin{tabular}{ c c c c } \hline \mbox{Min} \\ \hline \mbox{Min} \\ \hline \end{tabular} \\ \begin{tabular}{ c c c c } \hline \end{tabular} \\ propagation delay & A, B, C, D, E, F, G, H to Y; & [1] & & & & & & & & & & & & & & & & & & &$	$\begin{tabular}{ c c c c } \hline Min & Typ \\ \hline Typ \\ \hline Min & Typ \\ \hline Typ \\ \hline$	$\begin{tabular}{ c c c c c } \hline Min & Typ & Max \\ \hline V_{CC} = 2.0 V & -112 & 22 \\ \hline V_{CC} = 4.5 V & -12 & -12 & 22 \\ \hline V_{CC} = 4.5 V & -112 & -12 & 22 \\ \hline Min & Typ & T5 \\ \hline V_{CC} = 4.5 V & -112 & 7 \\ \hline Min & Typ & T5 \\ \hline Min & Typ & Max \\ \hline Min & Typ & T5 \\ \hline V_{CC} = 4.5 V & -112 & -12 \\ \hline Min & Typ & T5 \\ \hline Min & T5 \\ \hline \ Min & T5 \\ \hline \$	$\begin{tabular}{ c c c c c } \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline Min & Typ & Max & Max \\ \hline \ See Figure 5 & 11 & -1 & 130 & 165 \\ \hline V_{CC} = 4.5 V & -1 & 15 & 26 & 33 \\ \hline V_{CC} = 6.0 V & -1 & 12 & -2 & -1 \\ \hline V_{CC} = 6.0 V & -1 & 12 & 22 & 28 \\ \hline \ Min & Typ & Max & Max \\ \hline \ V_{CC} = 4.5 V & -1 & 15 & 19 \\ \hline \ V_{CC} = 4.5 V & -1 & 7 & 15 & 19 \\ \hline \end{tabular}$	$\begin{tabular}{ c c c c c c } \hline Min & Typ & Max & M$

Symbol	Parameter	Conditions			25 °C		–40 °C to	o +125 ℃	Unit
				Min	Тур	Max	Мах (85 °С)	Max (125 °C)	
C _{PD}	power dissipation capacitance	per package; $V_I = GND$ to V_{CC}	<u>[3]</u>	-	15	-	-	-	pF
74HCT30)	L							
t _{pd}	propagation delay	A, B, C, D, E, F, G, H to Y; see <u>Figure 5</u>	<u>[1]</u>						
		V _{CC} = 4.5 V		-	16	28	35	42	ns
		V _{CC} = 5.0 V; C _L = 15 pF		-	12	-	-	-	ns
t _t	transition time	$V_{CC} = 4.5 \text{ V}; \text{ see } \frac{\text{Figure 5}}{1000}$	[2]	-	7	15	19	22	ns
C _{PD}	power dissipation capacitance	per package; V _I = GND to V _{CC} – 1.5 V	<u>[3]</u>	-	15	-	-	-	pF

Table 7. Dynamic characteristics ... continued GND = 0 V: $C_{1} = 50$ pE: for test circuit see Figure 6

[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 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:

 f_i = input frequency in MHz;

 f_o = output frequency in MHz;

 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11. Waveforms

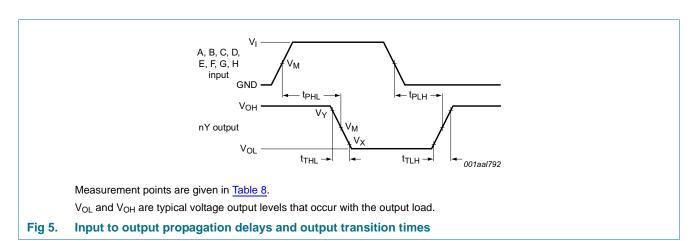


Table 8. Measurement points

Туре	Input	Output					
	V _M	V _M	V _X	V _Y			
74HC30	0.5V _{CC}	0.5V _{CC}	0.1V _{CC}	0.9V _{CC}			
74HCT30	1.3 V	1.3 V	0.1V _{CC}	0.9V _{CC}			

74HC_HCT30 Product data sheet

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74HC30; 74HCT30

8-input NAND gate

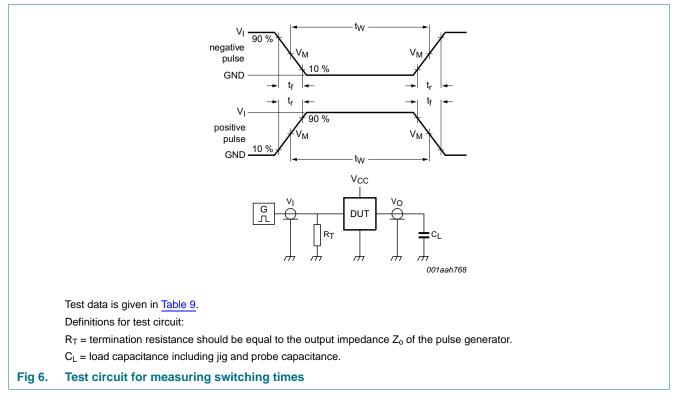


Table 9. Test data

Туре	Input L		Load	Test
	VI	t _r , t _f	CL	
74HC30	V _{CC}	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}
74HCT30	3.0 V	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}

8-input NAND gate

12. Package outline

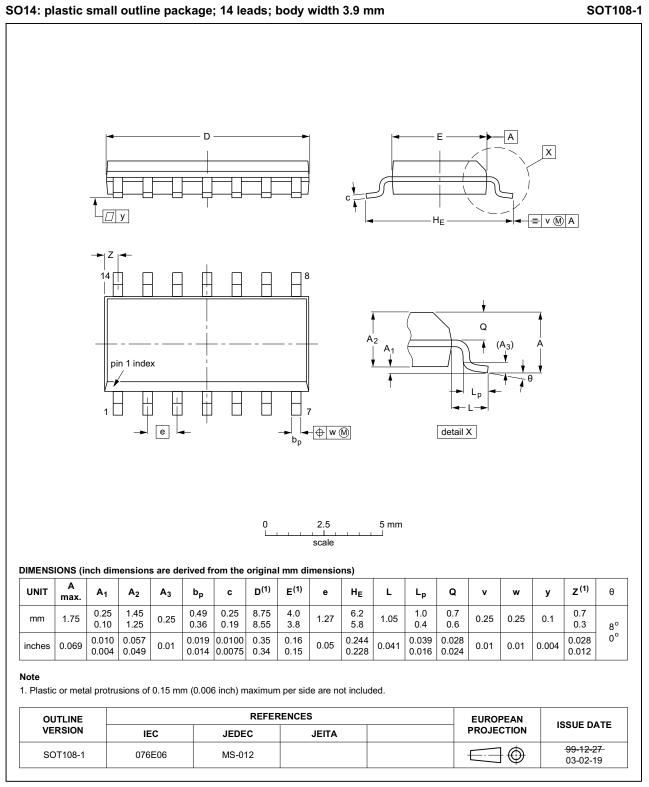


Fig 7. Package outline SOT108-1 (SO14)

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74HC_HCT30

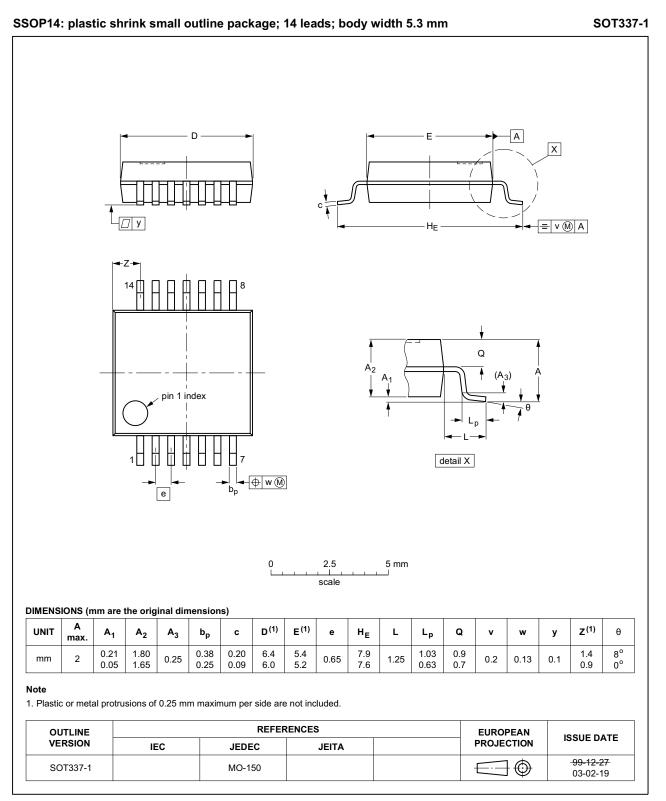
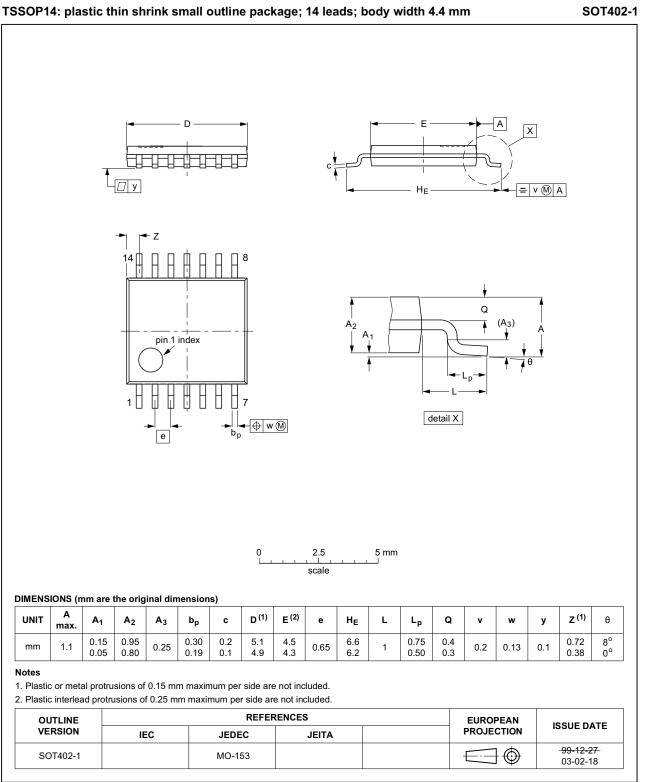


Fig 8. Package outline SOT337-1 (SSOP14)

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74HC_HCT30



Package outline SOT402-1 (TSSOP14) Fig 9.

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74HC_HCT30

13. Abbreviations

Table 10. Abbreviations					
Acronym	Description				
CMOS	Complementary Metal-Oxide Semiconductor				
DUT	Device Under Test				
ESD	ElectroStatic Discharge				
НВМ	Human Body Model				
MM	Machine Model				
TTL	Transistor-Transistor Logic				

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT30 v.7	20151202	Product data sheet	-	74HC_HCT30 v.6
Modifications:	 Type numbers 74HC30N and 74HCT30N (SOT27-1) removed. 			
74HC_HCT30 v.6	20121227	Product data sheet	-	74HC_HCT30 v.5
Modifications:	New general description.			
74HC_HCT30 v.5	20111213	Product data sheet	-	74HC_HCT30 v.4
Modifications:	Legal pages updated.			
74HC_HCT30 v.4	20100504	Product data sheet	-	74HC_HCT30 v.3
74HC_HCT30 v.3	20100420	Product data sheet	-	74HC_HCT30 v.2
74HC_HCT30 v.2	19970829	Product specification	-	-

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.

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[2] The term 'short data sheet' is explained in section "Definitions".

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8-input NAND gate

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74HC HCT30

17. Contents

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