Quad 2-input OR gate Rev. 5 — 4 September 2012

### 1. General description

The 74HC32; 74HCT32 is a quad 2-input OR 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

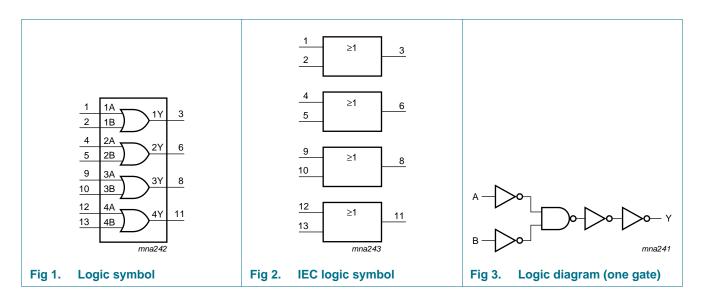
- Wide supply voltage range from 2.0 V to 6.0 V
- Complies with JEDEC standard JESD7A
- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- Input levels:
  - ◆ For 74HC32: CMOS level
  - For 74HCT32: TTL level
- ESD protection:
  - HBM JESD22-A114F 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



### 3. Ordering information

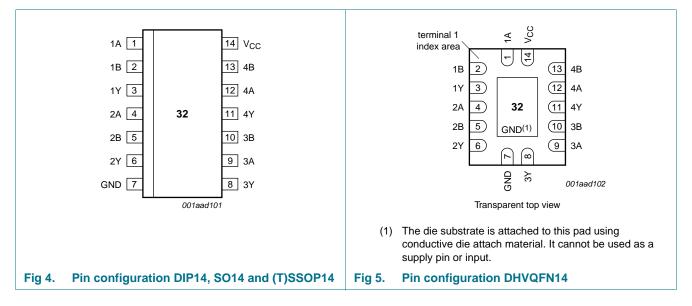
Type number	Package				
	Temperature range	Name	Description	Version	
74HC32N	–40 °C to +125 °C	DIP14	plastic dual in-line package; 14 leads (300 mil)	SOT27-1	
74HCT32N					
74HC32D	–40 °C to +125 °C SO14		plastic small outline package; 14 leads; body width	SOT108-7	
74HCT32D			3.9 mm		
74HC32DB	–40 °C to +125 °C	SSOP14	plastic shrink small outline package; 14 leads; body	SOT337-7	
74HCT32DB			width 5.3 mm		
74HC32PW	–40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads;	SOT402-1	
74HCT32PW			body width 4.4 mm		
74HC32BQ	–40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very	SOT762-1	
74HCT32BQ			thin quad flat package; no leads; 14 terminals; body $2.5 \times 3 \times 0.85$ mm		

### 4. Functional diagram



### 5. Pinning information

### 5.1 Pinning



### 5.2 Pin description

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

### 6. Functional description

#### Table 3.Function table

Input		Output
nA	nB	nY
L	L	L
L	Н	Н
Н	L	Н
Н	Н	Н

[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 <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>OK</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	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$		-	±25	mA
I <sub>CC</sub>	supply current			-	50	mA
I <sub>GND</sub>	ground current			-50	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	total power dissipation		[2]			
	DIP14 package			-	750	mW
	SO14, (T)SSOP14 and DHVQFN14 packages			-	500	mW

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

[2] For DIP14 package: P<sub>tot</sub> derates linearly with 12 mW/K above 70 °C.
 For SO14 package: P<sub>tot</sub> derates linearly with 8 mW/K above 70 °C.
 For (T)SSOP14 packages: P<sub>tot</sub> derates linearly with 5.5 mW/K above 60 °C.
 For DHVQFN14 packages: P<sub>tot</sub> derates linearly with 4.5 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	74HC3	74HC32			Г32		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
$\Delta t / \Delta V$	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 t	o +85 °C	-40 °C to	o +125 ℃	Uni
			Min	Тур	Max	Min	Max	Min	Max	
74HC32										
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 <sub>он</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	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 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 <sub>OL</sub> LOW-level		$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_0 = 20 \ \mu A; V_{CC} = 2.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 20 \ \mu A; V_{CC} = 4.5 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 20 \ \mu A; V_{CC} = 6.0 \ V$	-	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
I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 V$	-	-	±0.1	-	±1	-	±1	μA
сс	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
74HCT3	2									
V <sub>IH</sub>	HIGH-level input voltage	$V_{\rm CC}$ = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>он</sub>	HIGH-level	$V_{I} = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 V$								
•	output voltage	I <sub>O</sub> = -20 μA	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 $V_{IL}$ ; $V_{CC} = 4.5$ V								
~-	output voltage	$I_0 = 20 \ \mu A$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 5.2 \text{ mA}$	-	0.15	0.25	-	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

74HC\_HCT32
Product data sheet

Quad 2-input OR gate

#### Table 6. Static characteristics ...continued

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	Мах	Min	Max	
I <sub>CC</sub>	supply current		-	-	2.0	-	20	-	40	μA
$\Delta I_{CC}$	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	-	-	430	-	540	-	590	μΑ
CI	input capacitance		-	3.5	-	-	-	-	-	pF

### **10.** Dynamic characteristics

#### Table 7. Dynamic characteristics

GND = 0 V;  $C_L = 50$  pF; for load circuit see <u>Figure 7</u>.

Symbol	Parameter	Conditions			25 °C		-40 °C to	Unit	
				Min	Тур	Max	Max (85 °C)	Max (125 °C)	_
74HC32									
t <sub>pd</sub> propagation delay		nA, nB to nY; see <u>Figure 6</u>	<u>[1]</u>						
	$V_{CC} = 2.0 V$		-	22	90	115	135	ns	
		$V_{CC} = 4.5 V$		-	8	18	23	27	ns
		$V_{CC} = 5.0 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	6	-	-	-	ns
		$V_{CC} = 6.0 V$		-	6	15	20	23	ns
t <sub>t</sub>	transition time	see Figure 6	[2]						
		$V_{CC} = 2.0 V$		-	19	75	95	110	ns
		$V_{CC} = 4.5 V$		-	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; $V_I = GND$ to $V_{CC}$	<u>[3]</u>	-	16	-	-	-	pF

Symbol	Parameter	Conditions		25 °C			-40 °C to	o +125 °C	Unit
				Min	Тур	Max	Max (85 °C)	Max (125 °C)	_
74HCT32	2	'	ľ						
t <sub>pd</sub> propagation delay		nA, nB to nY; see Figure 6	<u>[1]</u>						
		$V_{CC} = 4.5 V$		-	11	24	30	36	ns
		$V_{CC} = 5.0 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	9	-	-	-	ns
t <sub>t</sub>	transition time	V <sub>CC</sub> = 4.5 V; see Figure 6	[2]	-	7	15	19	22	ns
C <sub>PD</sub>	power dissipation capacitance	per package; V <sub>I</sub> = GND to V <sub>CC</sub> – 1.5 V	<u>[3]</u>	-	28	-	-	-	pF

#### Table 7. Dynamic characteristics

 $GND = 0 V; C_L = 50 pF;$  for load circuit see Figure 7.

 $\label{eq:tpd} [1] \quad t_{pd} \text{ is the same as } t_{PHL} \text{ and } t_{PLH}.$ 

- $\label{eq:ttilde} [2] \quad t_t \text{ is the same as } t_{THL} \text{ and } t_{TLH}.$
- [3]  $C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in  $\mu$ W):

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \sum (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$ 

 $f_i$  = input frequency in MHz;  $f_o$  = output frequency in MHz;

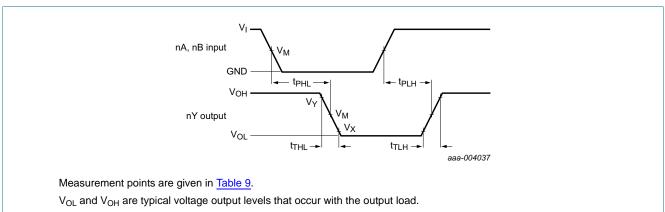
 $C_L$  = output load capacitance in pF;

 $V_{CC}$  = supply voltage in V;

 $v_{CC} =$  supply voltage in v,

N = number of inputs switching;  $\sum (C_L \times V_{CC}^2 \times f_o) = sum of outputs.$ 

### 11. Waveforms



#### Fig 6. Input to output propagation delays

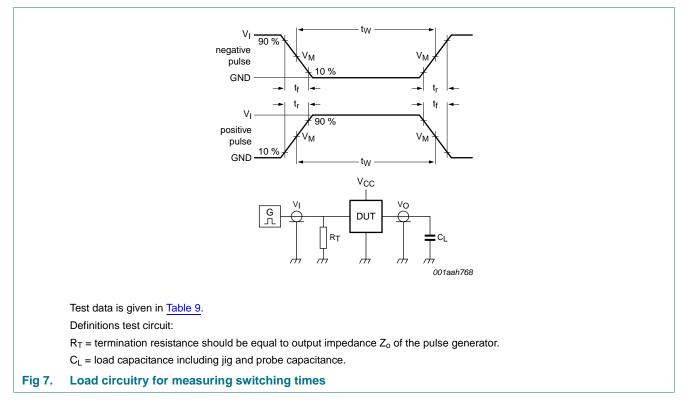
#### Table 8.Measurement points

Туре	Input	Output		
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>
74HC32	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>
74HCT32	1.3 V	1.3 V	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>

### **NXP Semiconductors**

# 74HC32; 74HCT32

#### Quad 2-input OR gate

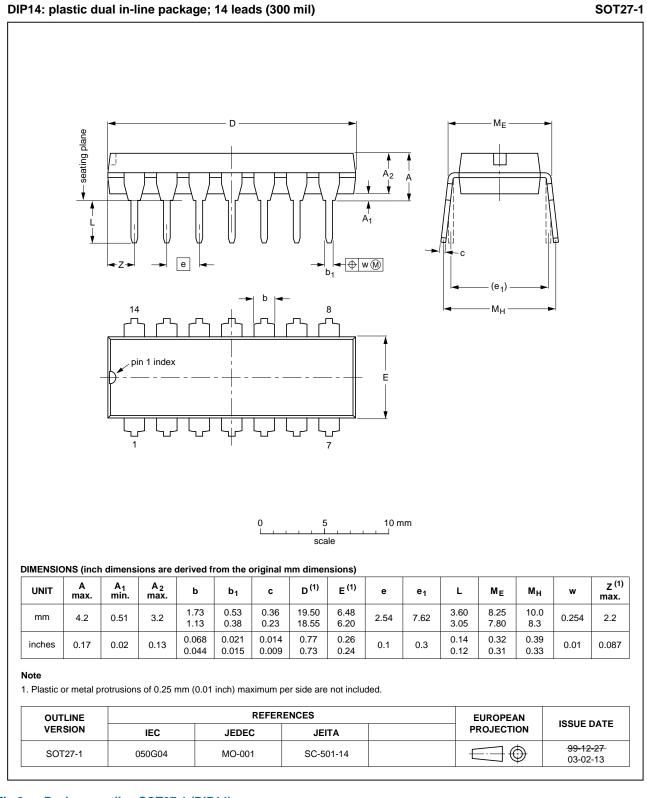


#### Table 9. Test data

Туре	Input L		Load	Test
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	
74HC32	V <sub>CC</sub>	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>
74HCT32	3.0 V	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>

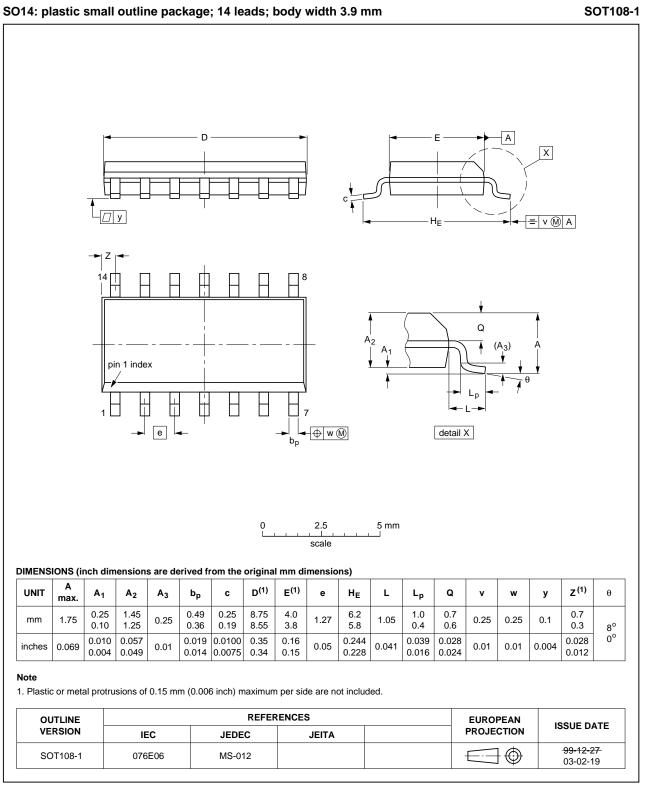
**Quad 2-input OR gate** 

### 12. Package outline



#### Fig 8. Package outline SOT27-1 (DIP14)

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Package outline SOT108-1 (SO14) Fig 9.

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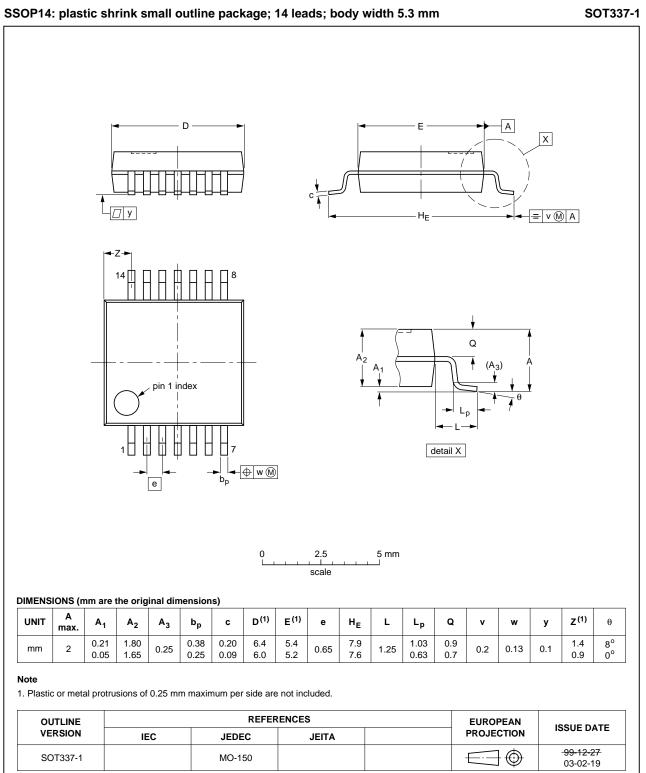


Fig 10. Package outline SOT337-1 (SSOP14)

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**Quad 2-input OR gate** 

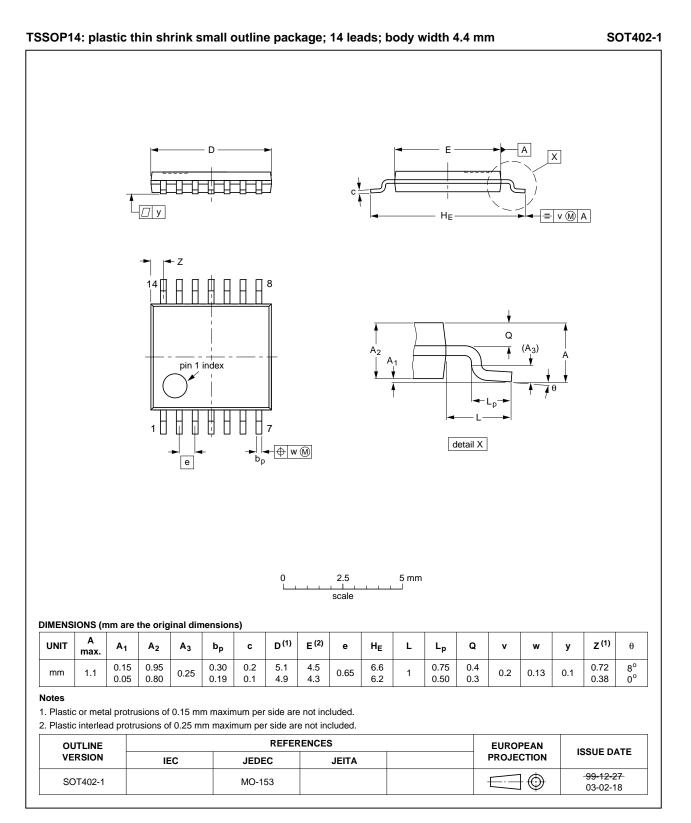
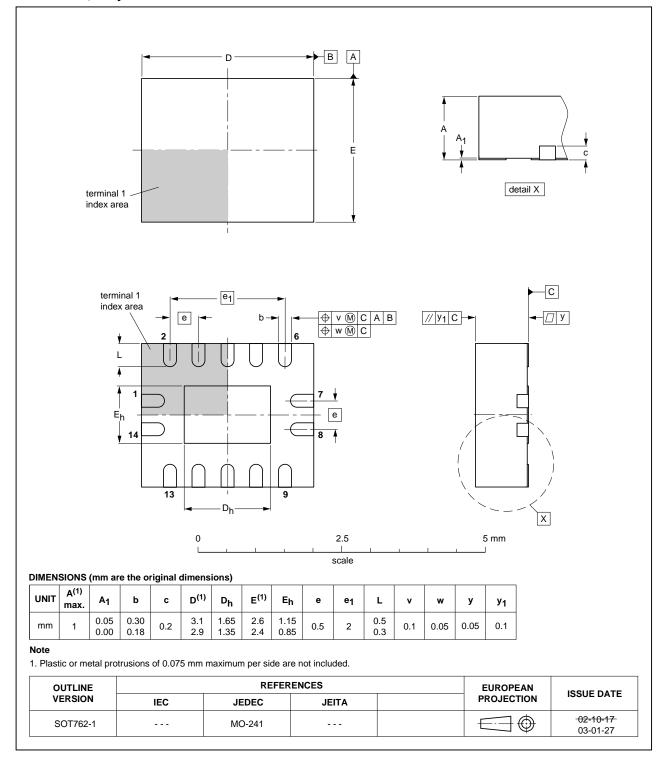


Fig 11. Package outline SOT402-1 (TSSOP14)

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DHVQFN14: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 x 3 x 0.85 mm SOT762-1

#### Fig 12. Package outline SOT762-1 (DHVQFN14)

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### 13. Abbreviations

AcronymDescriptionCMOSComplementary Metal-Oxide SemiconductorDUTDevice Under TestESDElectroStatic DischargeHBMHuman Body ModelLSTTLLow-power Schottky Transistor-Transistor LogicMMMachine Model	Table 10.	Abbreviations
DUTDevice Under TestESDElectroStatic DischargeHBMHuman Body ModelLSTTLLow-power Schottky Transistor-Transistor Logic	Acronym	Description
ESDElectroStatic DischargeHBMHuman Body ModelLSTTLLow-power Schottky Transistor-Transistor Logic	CMOS	Complementary Metal-Oxide Semiconductor
HBM     Human Body Model       LSTTL     Low-power Schottky Transistor-Transistor Logic	DUT	Device Under Test
LSTTL Low-power Schottky Transistor-Transistor Logic	ESD	ElectroStatic Discharge
	HBM	Human Body Model
MM Machine Model	LSTTL	Low-power Schottky Transistor-Transistor Logic
	MM	Machine Model
TTL Transistor-Transistor Logic	TTL	Transistor-Transistor Logic

## 14. Revision history

#### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT32 v.5	20120904	Product data sheet	-	74HC_HCT32 v.4
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> </ul>			
	<ul> <li>Legal texts have be</li> </ul>	en adapted to the new co	mpany name where ap	propriate.
74HC_HCT32 v.4	20031212	Product specification	-	74HC_HCT32 v.3
74HC_HCT32 v.3	20030829	Product specification	-	74HC_HCT32_CNV v.2
74HC_HCT32_CNV v.2	19970827	Product specification	-	-

### 15. Legal information

### 15.1 Data sheet status

Document status[1][2]	Product status <sup>[3]</sup>	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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#### Quad 2-input OR gate

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