74LVCU04A

Hex unbuffered inverter

Rev. 8 — 18 December 2015

Product data sheet

1. General description

The 74LVCU04A is a general purpose hex unbuffered inverter. Each of the six inverters is a single stage with unbuffered outputs.

2. Features and benefits

- Wide supply voltage range from 1.2 V to 3.6 V
- Inputs accept voltages up to 5.5 V
- CMOS low power consumption
- Direct interface with TTL levels
- Complies with JEDEC standard:
 - ◆ JESD8-7A (1.65 V to 1.95 V)
 - ◆ JESD8-5A (2.3 V to 2.7 V)
 - ◆ JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - ◆ HBM JESD22-A114F exceeds 2000 V
 - ♦ MM JESD22-A115-B exceeds 200 V
 - ◆ CDM JESD22-C101E exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

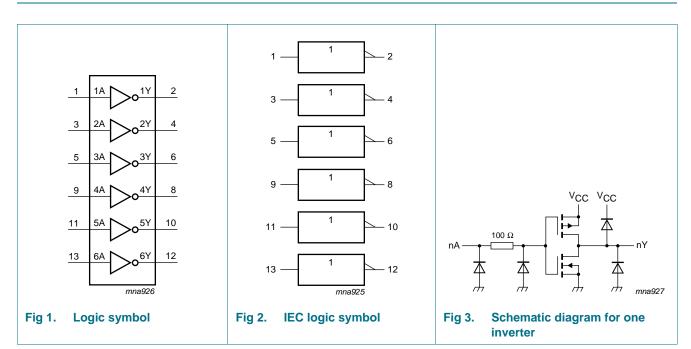
3. Ordering information

Table 1. Ordering information

Type number	Package	Package										
	Temperature range	Name	Description	Version								
74LVCU04AD	–40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1								
74LVCU04ADB	–40 °C to +125 °C	SSOP14	plastic shrink small outline package; 14 leads; body width 5.3 mm	SOT337-1								
74LVCU04APW	–40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1								
74LVCU04ABQ	–40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body $2.5 \times 3 \times 0.85$ mm	SOT762-1								

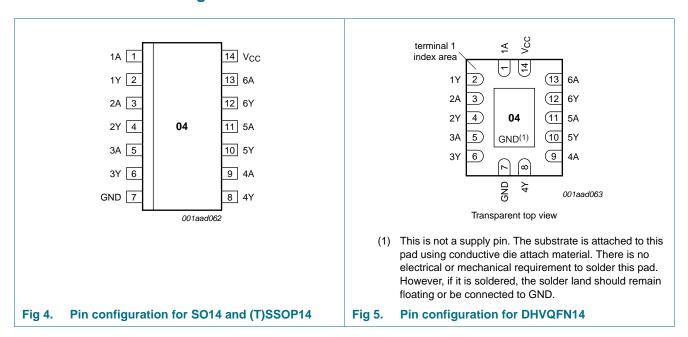


4. Functional diagram



5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

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

6. Functional description

Table 3. Function table [1]

Input nA	Output nY
L	Н
Н	L

^[1] H = HIGH voltage level; L = LOW voltage level

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	+6.5	V
I _{IK}	input clamping current	V _I < 0 V		-50	-	mA
VI	input voltage		[1]	-0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V		-	±50	mA
Vo	output voltage		[2]	-0.5	V _{CC} + 0.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$		-	±50	mA
I _{CC}	supply current			-	100	mA
I _{GND}	ground current			-100	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[3]	-	500	mW

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

^[2] The output voltage ratings may be exceeded if the output current ratings are observed.

^[3] For SO14 packages: above 70 °C the value of P_{tot} derates linearly with 8 mW/K. For (T)SSOP14 packages: above 60 °C the value of P_{tot} derates linearly with 5.5 mW/K. For DHVQFN14 packages: above 60 °C the value of P_{tot} derates linearly with 4.5 mW/K.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature	in free air	-40	-	+125	°C
Δt/ΔV	input transition rise and fall	V _{CC} = 1.65 V to 2.7 V	0	-	20	ns/V
	rate	$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	0	-	10	ns/V

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH-level	$V_{OL(max)} = 0.5 \text{ V}; I_O = -100 \mu\text{A}$						
	input voltage	V _{CC} = 1.2 V	1.08	-	-	1.12	-	V
		V _{CC} = 1.65 V to 1.95 V	1.3	-	-	1.5	-	V
		V _{CC} = 2.3 V to 2.7 V	1.8	-	-	2.0	-	V
		V _{CC} = 3.0 V	2.0	-	-	2.4	-	V
	V _{CC} = 3.6 V	2.4	-	-	2.8	-	V	
V _{IL} LOW-level input voltage	$V_{OH(min)} = V_{CC} - 0.5 \text{ V};$ $I_O = -100 \mu\text{A}$							
		V _{CC} = 1.2 V	-	-	0.12	-	0.1	V
		V _{CC} = 1.65 V to 1.95 V	-	-	0.6	-	0.4	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.6	-	0.5	V
		V _{CC} = 3.0 V	-	-	1.0	-	0.6	V
		V _{CC} = 3.6 V	-	-	1.2	-	0.7	V
V _{OH}	HIGH-level	V _I = GND						
	output	$V_{CC} = 3.0 \text{ V}; I_{O} = -100 \mu\text{A}$	V _{CC} - 0.2	-	-	V _{CC} - 0.3	-	V
	voltage	$V_{CC} = 1.65 \text{ V}; I_{O} = -4 \text{ mA}$	1.2	-	-	1.05	-	V
		$V_{CC} = 2.3 \text{ V}; I_{O} = -8 \text{ mA}$	1.8	-	-	1.65	-	V
		$V_{CC} = 2.7 \text{ V}; I_{O} = -12 \text{ mA}$	2.2	-	-	2.05	-	V
		$V_{CC} = 3.0 \text{ V}; I_{O} = -18 \text{ mA}$	2.4	-	-	2.25	-	V
		$V_{CC} = 3.0 \text{ V}; I_{O} = -24 \text{ mA}$	2.2	-	-	2.0	-	V

Table 6. Static characteristics ... continued

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

Symbol	Parameter	Conditions	-40	0 °C to +8	5 °C	-40 °C to	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V_{OL}	LOW-level	$V_I = V_{CC}$						
	output voltage	$V_{CC} = 3.0 \text{ V}; I_{O} = 100 \mu\text{A}$	-	-	0.20	-	0.60	V
	voltage	$V_{CC} = 1.65 \text{ V}; I_{O} = 4 \text{ mA}$	-	-	0.45	-	0.65	V
		$V_{CC} = 2.3 \text{ V}; I_{O} = 8 \text{ mA}$	-	-	0.60	-	0.80	V
		$V_{CC} = 2.7 \text{ V}; I_{O} = 12 \text{ mA}$	-	-	0.40	-	0.30	V
		$V_{CC} = 3.0 \text{ V}; I_{O} = 24 \text{ mA}$	-	-	0.55	-	0.80	V
I _I	input leakage current	$V_{CC} = 3.6 \text{ V}; V_I = 5.5 \text{ V or GND}$	-	±0.1	±5	-	±20	μА
I _{CC}	supply current	V_{CC} = 3.6 V; V_I = V_{CC} or GND; I_O = 0 A	-	0.1	10	-	40	μА
Δl _{CC}	additional supply current	per input pin; V_{CC} = 2.7 V to 3.6 V; V_I = V_{CC} - 0.6 V; I_O = 0 A	-	5	500	-	5000	μΑ
Cı	input capacitance	$V_{CC} = 0 \text{ V to } 3.6 \text{ V};$ $V_{I} = \text{GND to } V_{CC}$	-	5.5	-	-	-	pF

^[1] All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 25 °C.

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 9.

Symbol	Parameter	Conditions	Conditions			5 °C	-40 °C to	o +125 °C	Unit
						Max	Min	Max	
t _{pd}	propagation delay	nA to nY; see Figure 6	[2]						
		V _{CC} = 1.2 V		-	6.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		0.3	3.7	7.8	0.3	9.0	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.5	2.2	4.4	0.5	5.2	ns
		V _{CC} = 2.7 V		0.5	2.0	4.5	0.5	6.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		0.5	2.0	4.0	0.5	5.0	ns
t _{sk(o)}	output skew time	V _{CC} = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns
C_{PD}	power dissipation	per inverter; $V_I = GND$ to V_{CC}	[4]						
	capacitance	V _{CC} = 1.65 V to 1.95 V		-	2.3	-	-	-	pF
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	5.5	-	-	-	pF
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	8.4	-	-	-	pF

^[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.2 V, 1.8 V, 2.5 V, 2.7 V, and 3.3 V respectively.

$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o) \text{ where:}$$

^[2] t_{pd} is the same as t_{PLH} and t_{PHL} .

^[3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.

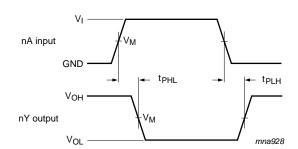
^[4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

 C_L = output load capacitance in pF

$$\begin{split} &V_{CC} = \text{supply voltage in Volts} \\ &N = \text{ number of inputs switching} \\ &\Sigma(C_L \times V_{CC}{}^2 \times f_o) = \text{sum of the outputs} \end{split}$$

11. Waveforms

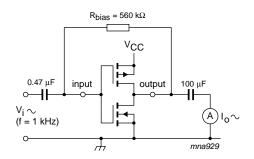


 V_{M} = 1.5 V at $V_{CC} \geq$ 2.7 V;

 V_{M} = 0.5 \times V_{CC} at V_{CC} < 2.7 V;

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

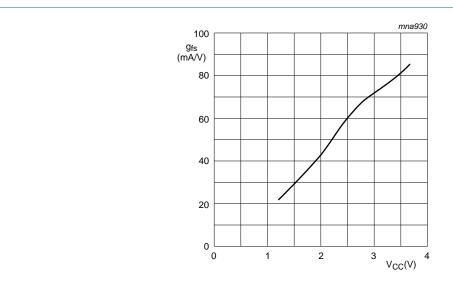
Fig 6. Input (nA) to output (nY) propagation delays



$$g_{fs} = \frac{dI_O}{dV_I}; at \ constant \ V_O$$

f_i = 1 kHz at V_O is constant

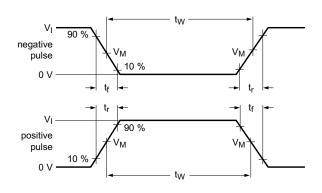
Fig 7. Test setup for measuring forward transconductance

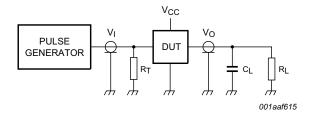


 T_{amb} = 25 °C

Fig 8. Typical forward transconductance as a function of supply voltage

© Nexperia B.V. 2017. All rights reserved





Test data is given in Table 8.

Definitions for test circuit:

 R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

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

Fig 9. Test circuit for measuring switching times

Table 8. Test data

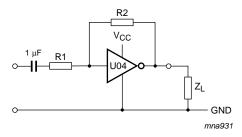
Supply voltage	Input		Load			
	VI	t _r , t _f	CL	R _L		
1.2 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ		
1.65 V to 1.95 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ		
2.3 V to 2.7 V	V _{CC}	≤ 2 ns	30 pF	500 Ω		
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω		
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω		

12. Application information

12.1 Application diagrams

Some applications for the 74LVCU04A are:

- Linear amplifier: see Figure 10
- Crystal oscillator designs; see Figure 11
- Astable multivibrator; see Figure 12



 $V_{o(p-p)} = V_{CC} - 1.5 \text{ V}$ centered at $0.5V_{CC}$.

$$A_u = -\frac{G_{OL}}{I + \frac{RI}{R2}(I + G_{OL})}$$

G_{OL} = loop gain.

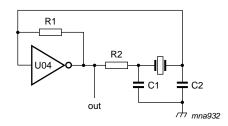
 A_u = voltage amplification.

 $R1 \geq 3~k\Omega,~R2 \leq 1~M\Omega$

 $Z_L > 10 \text{ k}\Omega; A_{OL} = 20 \text{ (typ.)}$

Typical unity gain bandwidth product is 5 MHz.

Fig 10. 74LVCU04A used as linear amplifier



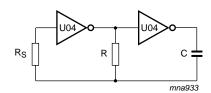
 $C_1 = 47 pF (typical)$

 $C_2 = 22 pF (typical)$

 $R_1 = 1$ to 10 $M\Omega$ (typical)

 R_2 optimum value depends on the frequency and required stability against changes in V_{CC} or average minimum I_{CC} (I_{CC} is typically 2 mA at V_{CC} = 3 V and f = 1 MHz)

Fig 11. 74LVCU04A used as crystal oscillator



$$f = \frac{1}{T} \approx \frac{1}{2.2RC}$$

 $R_S \approx 2R$.

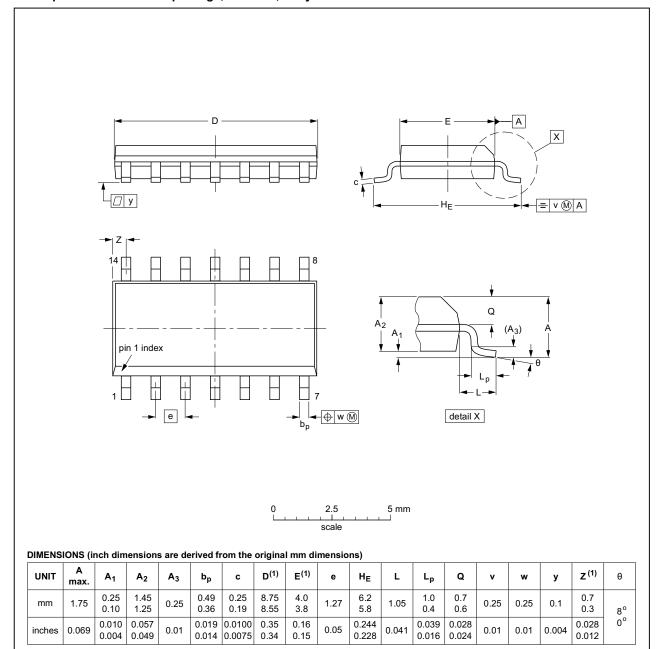
The average I_{CC} is approximately 3.5 + 0.05f (MHz) \times C (pF) [mA] at V_{CC} = 3.0 V.

Fig 12. 74LVCU04A used as a stable multivibrator

13. Package outline

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

SOT108-1



Note

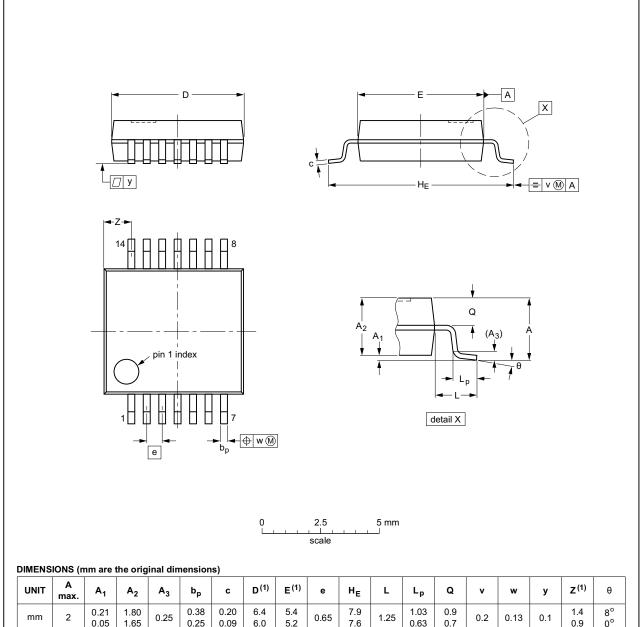
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

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

Fig 13. Package outline SOT108-1 (SO14)

SSOP14: plastic shrink small outline package; 14 leads; body width 5.3 mm

SOT337-1



UNIT	A max.	A ₁	A ₂	A ₃	b _p	U	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	2	0.21 0.05	1.80 1.65	0.25	0.38 0.25	0.20 0.09	6.4 6.0	5.4 5.2	0.65	7.9 7.6	1.25	1.03 0.63	0.9 0.7	0.2	0.13	0.1	1.4 0.9	8° 0°

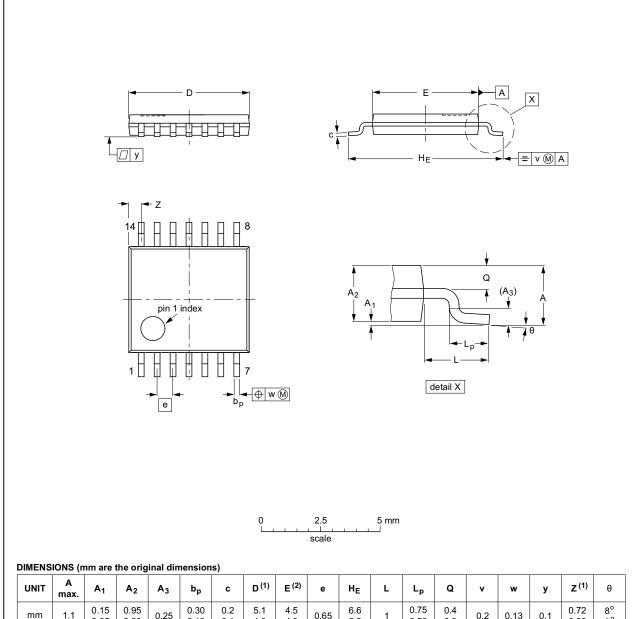
1. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT337-1		MO-150			$ \ \ \bigoplus \big($	-99-12-27 03-02-19	

Fig 14. Package outline SOT337-1 (SSOP14)

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

SOT402-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	U	D ⁽¹⁾	E ⁽²⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	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.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT402-1		MO-153				-99-12-27- 03-02-18	

Fig 15. Package outline SOT402-1 (TSSOP14)

Hex unbuffered inverter

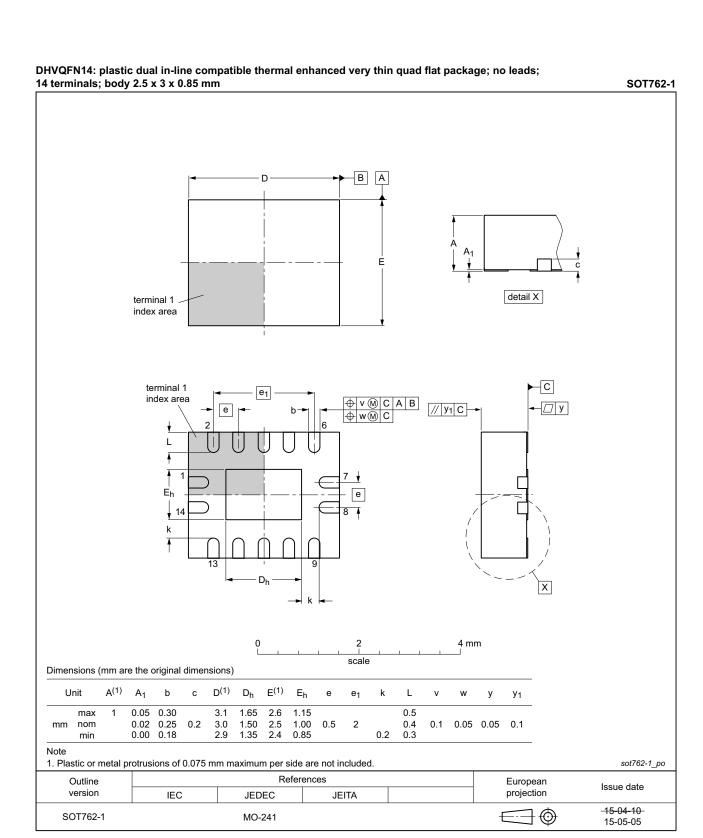


Fig 16. Package outline SOT762-1 (DHVQFN14)



14. Abbreviations

Table 9. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

15. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes			
74LVCU04A v.8	20151218	Product data sheet	-	74LVCU04A v.7			
Modifications:	Descriptive title u	pdated. Added "unbuffered	d" (errata).				
74LVCU04A v.7	20111117	Product data sheet	-	74LVCU04A v.6			
Modifications:	Legal pages upda	ated.					
	 <u>Table 6</u>, bodyrow ΔI_{CC}: condition V_{CC} changed. 						
74LVCU04A v.6	20110809	Product data sheet	-	74LVCU04A v.5			
74LVCU04A v.5	20040312	Product specification	-	74LVCU04A v.4			
74LVCU04A v.4	20030901	Product specification	-	74LVCU04A v.3			
74LVCU04A v.3	19980729	Product specification	-	74LVCU04A v.2			
74LVCU04A v.2	19980729	Product specification	-	74LVCU04A v.1			
74LVCU04A v.1	19980729	Product specification	-	-			

16. Legal information

16.1 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"
- [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 URL http://www.nexperia.com.

16.2 Definitions

Draft — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. Nexperia does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

Short data sheet — A short data sheet is an extract from a full data sheet with the same product type number(s) and title. A short data sheet is intended for quick reference only and should not be relied upon to contain detailed and full information. For detailed and full information see the relevant full data sheet, which is available on request via the local Nexperia sales office. In case of any inconsistency or conflict with the short data sheet, the full data sheet shall prevail.

Product specification — The information and data provided in a Product data sheet shall define the specification of the product as agreed between Nexperia and its customer, unless Nexperia and customer have explicitly agreed otherwise in writing. In no event however, shall an agreement be valid in which the Nexperia product is deemed to offer functions and qualities beyond those described in the Product data sheet.

16.3 Disclaimers

Limited warranty and liability — Information in this document is believed to be accurate and reliable. However, Nexperia does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. Nexperia takes no responsibility for the content in this document if provided by an information source outside of Nexperia.

In no event shall Nexperia be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, Nexperia's aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the *Terms and conditions of commercial sale* of Nexperia.

Right to make changes — Nexperia reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

Suitability for use — Nexperia products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of a Nexperia product can reasonably be expected to result in personal injury, death or severe property or environmental damage. Nexperia and its suppliers accept no liability for inclusion and/or use of Nexperia products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk

Applications — Applications that are described herein for any of these products are for illustrative purposes only. Nexperia makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using Nexperia products, and Nexperia accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the Nexperia product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

Nexperia does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using Nexperia products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). Nexperia does not accept any liability in this respect.

Limiting values — Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

Terms and conditions of commercial sale — Nexperia products are sold subject to the general terms and conditions of commercial sale, as published at http://www.nexperia.com/profile/terms, unless otherwise agreed in a valid written individual agreement. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. Nexperia hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of Nexperia products by customer.

No offer to sell or license — Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

74LVCU04A

Product data sheet

All information provided in this document is subject to legal disclaimers.

15 of 17

Hex unbuffered inverter

Export control — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

Non-automotive qualified products — Unless this data sheet expressly states that this specific Nexperia product is automotive qualified, the product is not suitable for automotive use. It is neither qualified nor tested in accordance with automotive testing or application requirements. Nexperia accepts no liability for inclusion and/or use of non-automotive qualified products in automotive equipment or applications.

In the event that customer uses the product for design-in and use in automotive applications to automotive specifications and standards, customer (a) shall use the product without Nexperia's warranty of the product for such automotive applications, use and specifications, and (b) whenever customer uses the product for automotive applications beyond

Nexperia's specifications such use shall be solely at customer's own risk, and (c) customer fully indemnifies Nexperia for any liability, damages or failed product claims resulting from customer design and use of the product for automotive applications beyond Nexperia's standard warranty and Nexperia's product specifications.

Translations — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

16.4 Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

17. Contact information

For more information, please visit: http://www.nexperia.com

For sales office addresses, please send an email to: salesaddresses@nexperia.com



18. Contents

1	General description 1
2	Features and benefits
3	Ordering information 1
4	Functional diagram 2
5	Pinning information 2
5.1	Pinning
5.2	Pin description
6	Functional description 3
7	Limiting values 3
8	Recommended operating conditions 4
9	Static characteristics 4
10	Dynamic characteristics 5
11	Waveforms 6
12	Application information 9
12.1	Application diagrams 9
13	Package outline 10
14	Abbreviations14
15	Revision history
16	Legal information
16.1	Data sheet status
16.2	Definitions
16.3	Disclaimers
16.4	Trademarks16
17	Contact information 16
18	Contents

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Logic Gates category:

Click to view products by NXP manufacturer:

Other Similar products are found below:

5962-8769901BCA 74HC85N NL17SG08P5T5G NL17SG32DFT2G NLU1G32AMUTCG NLV7SZ58DFT2G NLVHC1G08DFT1G NLVVHC1G14DTT1G NLX2G08DMUTCG NLX2G08MUTCG MC74HCT20ADR2G 091992B 091993X 093560G 634701C 634921A NL17SG32P5T5G NL17SG86DFT2G NLV14001UBDR2G NLVVHC1G132DTT1G NLVVHC1G86DTT1G NLX1G11AMUTCG NLX1G97MUTCG 746427X 74AUP1G17FW5-7 74LS38 74LVC1G08Z-7 74LVC32ADTR2G 74LVC1G125FW4-7 74LVC08ADTR2G MC74HCT20ADTR2G NLV14093BDTR2G NLV17SZ00DFT2G NLV17SZ02DFT2G NLV17SZ126DFT2G NLV27WZ17DFT2G NLV74HC02ADR2G NLV74HC08ADR2G NLVVHC1GT32DFT1G 74HC32S14-13 74LS133 74LVC1G32Z-7 M38510/30402BDA 74LVC1G86Z-7 74LVC2G08RA3-7 M38510/06202BFA NLV74HC08ADTR2G NLV74HC14ADR2G NLV74HC20ADR2G NLV74VHC1G08DTT1G