74LV14

Hex inverting Schmitt trigger

Rev. 9 — 14 September 2021

Product data sheet

1. General description

The 74LV14 is a low-voltage Si-gate CMOS device that is pin and function compatible with 74HC14 and 74HCT14.

The 74LV14 provides six inverting buffers with Schmitt-trigger input. It is capable of transforming slowly-changing input signals into sharply defined, jitter-free output signals.

The inputs switch at different points for positive and negative-going signals. The difference between the positive voltage V_{T+} and the negative voltage V_{T-} is defined as the input hysteresis voltage V_{H-} .

2. Features and benefits

- Wide supply voltage range from 1.0 V to 5.5 V
- CMOS low power dissipation
- Optimized for low voltage applications: 1.0 V to 3.6 V
- Accepts TTL input levels between V_{CC} = 2.7 V and V_{CC} = 3.6 V
- Typical output ground bounce < 0.8 V at V_{CC} = 3.3 V and T_{amb} = 25 °C
- Typical HIGH-level output voltage (V_{OH}) undershoot: > 2 V at V_{CC} = 3.3 V and T_{amb} = 25 °C
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards:
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
 - JESD36 (4.5 V to 5.5 V)
- 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. Applications

- Wave and pulse shapers for highly noisy environments
- Astable multivibrators
- Monostable multivibrators



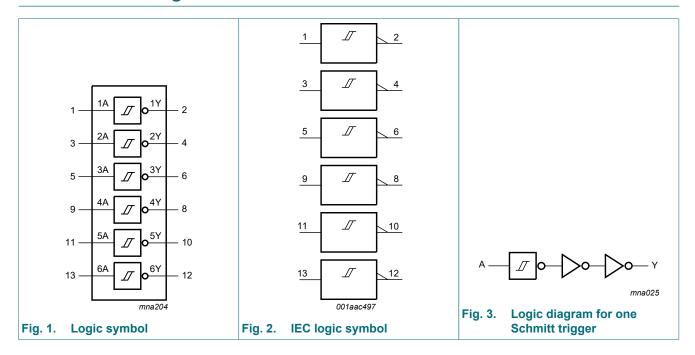
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4. Ordering information

Table 1. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74LV14D	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1						
74LV14PW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1						
74LV14BQ	-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	SOT762-1						

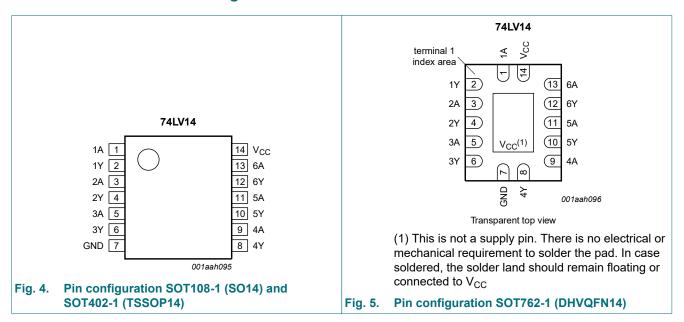
5. Functional diagram



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6. Pinning information

6.1. Pinning



6.2. 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

7. Functional description

Table 3. Function table

H = HIGH voltage level; L = LOW voltage level.

Input nA	Output nY
L	Н
Н	L

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8. 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	+7.0	V
I _{IK}	input clamping current	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
I _{OK}	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1]	-	±50	mA
Io	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-	±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	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$ [2]	-	500	mW

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

9. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage	[1]	1.0	3.3	5.5	V
VI	input voltage		0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C

^[1] The static characteristics are guaranteed from V_{CC} = 1.2 V to V_{CC} = 5.5 V, but LV devices are guaranteed to function down to V_{CC} = 1.0 V (with input levels GND or V_{CC}).

^[2] For SOT108-1 (SO14) package: Ptot derates linearly with 10.1 mW/K above 100 °C.

For SOT402-1 (TSSOP14) package: Ptot 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.

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10. Static characteristics

Table 6. Static characteristics

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	T _{amb} =	-40 °C to	+85 °C		-40 °C 25 °C	Unit
			Min	Typ [1]	Max	Min	Max	
V _{OH}	HIGH-level output	$V_I = V_{T+}$ or V_{T-}						
	voltage	I _O = -100 μA; V _{CC} = 1.2 V	-	1.2	-	-	-	V
		I_{O} = -100 μ A; V_{CC} = 2.0 V	1.8	2.0	-	1.8	-	V
		I_{O} = -100 μ A; V_{CC} = 2.7 V	2.5	2.7	-	2.5	-	V
		I_{O} = -100 μ A; V_{CC} = 3.0 V	2.8	3.0	-	2.8	-	V
		I_{O} = -100 μ A; V_{CC} = 4.5 V	4.3	4.5	-	4.3	-	V
		I_{O} = -6 mA; V_{CC} = 3.0 V	2.4	2.82	-	2.2	-	V
		$I_O = -12 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.6	4.2	-	3.5	-	V
V _{OL}	LOW-level output	$V_I = V_{T+}$ or V_{T-}						
	voltage	I _O = 100 μA; V _{CC} = 1.2 V	-	0	-	-	-	V
		I _O = 100 μA; V _{CC} = 2.0 V	-	0	0.2	-	0.2	V
		$I_O = 100 \mu A; V_{CC} = 2.7 V$	-	0	0.2	-	0.2	V
		I _O = 100 μA; V _{CC} = 3.0 V	-	0	0.2	-	0.2	V
		$I_O = 100 \mu A; V_{CC} = 4.5 V$	-	0	0.2	-	0.2	V
		I_{O} = 6 mA; V_{CC} = 3.0 V	-	0.25	0.40	-	0.50	V
		$I_O = 12 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.35	0.55	-	0.65	V
II	input leakage current	$V_1 = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	1.0	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	20.0	-	40	μΑ
ΔI _{CC}	additional supply current	per input; V _I = V _{CC} - 0.6 V; V _{CC} = 2.7 V to 3.6 V	-	-	500	-	850	μΑ
Cı	input capacitance		-	3.5	-	-	-	pF

^[1] Typical values are measured at T_{amb} = 25 °C.

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11. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; For test circuit see Fig. 7.

Symbol	Parameter	Conditions	T _{aml}	= -40 °C to	+85 °C	T _{amb} = to +1	Unit	
			Min	Typ [1]	Max	Min	Max	
t _{pd}	propagation	nA to nY; see Fig. 6	2]					
delay	V _{CC} = 1.2 V	-	80	-	-	-	ns	
	V _{CC} = 2.0 V	-	27	37	-	48	ns	
		V _{CC} = 2.7 V	-	20	28	-	35	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V; } C_L = 15 \text{ pF}$ [3]	-	13	-	-	-	ns
		V _{CC} = 3.0 V to 3.6 V	-	15	22	-	28	ns
	V _{CC} = 4.5 V to 5.5 V	-	-	18	-	23	ns	
C _{PD}	power dissipation capacitance	C_L = 50 pF; f_i = 1 MHz; V_I = GND to V_{CC}	-	15	-	-	-	pF

- All typical values are measured at T_{amb} = 25 °C.
- t_{pd} is the same as t_{PLH} and t_{PHL} . Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V). C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). [3]

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

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

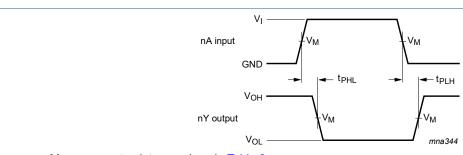
C_L = output load capacitance in pF

V_{CC} = supply voltage in V

N = number of inputs switching

 $\Sigma(C_L \times V_{CC}^2 \times f_0)$ = sum of the outputs.

11.1. Waveforms and test circuit



Measurement points are given in Table 8.

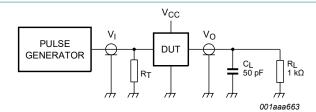
 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

The input (nA) to output (nY) propagation delays Fig. 6.

Table 8. Measurement points

Supply voltage	Input	Output								
Vcc	V _M	V _M								
< 2.7 V	0.5V _{CC}	0.5V _{CC}								
2.7 V to 3.6 V	1.5 V	1.5 V								
≥ 4.5 V	0.5V _{CC}	0.5V _{CC}								

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Test data is given in Table 9.

Definitions test circuit:

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

R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

Fig. 7. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	nput					
V _{CC}	V _I	t _r , t _f				
< 2.7 V	V _{CC}	≤ 2.5 ns				
2.7 V to 3.6 V	2.7 V	≤ 2.5 ns				
≥ 4.5 V	V _{CC}	≤ 2.5 ns				

12. Transfer characteristics

Table 10. Transfer characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); see Fig. 8 and Fig. 9.

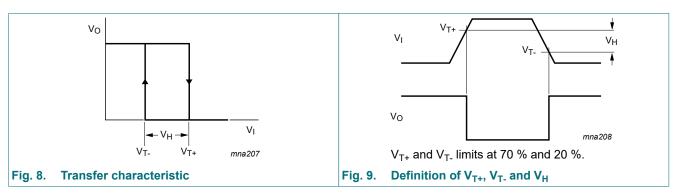
Symbol	Parameter	Conditions	T _{amb}	= -40 °C to +	-85 °C	T _{amb} = -40 °	C to +125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
V_{T+}	positive-going threshold voltage	V _{CC} = 1.2 V	-	0.70	-	-	-	V
		V _{CC} = 2.0 V	0.8	1.10	1.4	0.8	1.4	V
		V _{CC} = 2.7 V	1.0	1.45	2.0	1.0	2.0	V
		V _{CC} = 3.0 V	1.2	1.60	2.2	1.2	2.2	V
		V _{CC} = 3.6 V	1.5	1.95	2.4	1.5	2.4	V
		V _{CC} = 4.5 V	1.7	2.50	3.15	1.7	3.15	V
		V _{CC} = 5.5 V	2.1	3.00	3.85	2.1	3.85	V
V _{T-}	negative-going	V _{CC} = 1.2 V	-	0.34	-	-	-	V
	threshold voltage	V _{CC} = 2.0 V	0.3	0.65	0.9	0.3	0.9	V
		V _{CC} = 2.7 V	0.4	0.90	1.4	0.4	1.4	V
		V _{CC} = 3.0 V	0.6	1.05	1.5	0.6	1.5	V
		V _{CC} = 3.6 V	0.8	1.30	1.8	0.8	1.8	V
		V _{CC} = 4.5 V	0.9	1.60	2.0	0.9	2.0	V
		V _{CC} = 5.5 V	1.1	2.00	2.6	1.1	2.6	V

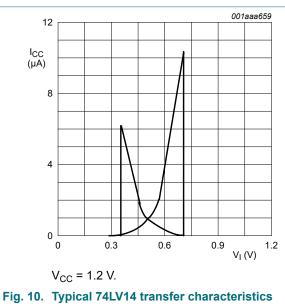
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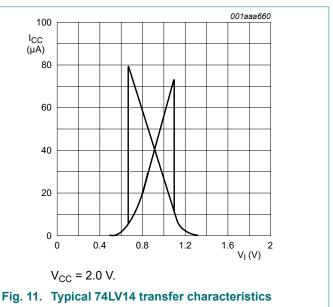
Symbol	Parameter	Conditions	T _{amb} :	= -40 °C to +	-85 °C	T _{amb} = -40 °	C to +125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
V_{H}	hysteresis voltage	V _{CC} = 1.2 V	-	0.3	-	-	-	V
		V _{CC} = 2.0 V	0.2	0.55	0.8	0.2	0.8	V
		V _{CC} = 2.7 V	0.3	0.60	1.1	0.3	1.1	V
		V _{CC} = 3.0 V	0.4	0.65	1.2	0.4	1.2	V
		V _{CC} = 3.6 V	0.4	0.70	1.2	0.4	1.2	V
		V _{CC} = 4.5 V	0.4	0.80	1.4	0.4	1.4	V
		V _{CC} = 5.5 V	0.6	1.00	1.5	0.6	1.5	V

^[1] All typical values are measured at T_{amb} = 25 °C.

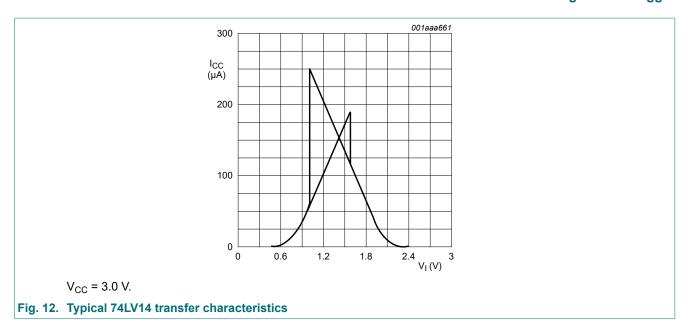
12.1. Waveforms transfer characteristics







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13. Application information

The slow input rise and fall times cause additional power dissipation, this can be calculated using the following formula:

 $P_{add} = f_i \times (t_r \times \Delta I_{CC(AV)} + t_f \times \Delta I_{CC(AV)}) \times V_{CC}$ where:

 P_{add} = additional power dissipation (μ W);

 f_i = input frequency (MHz);

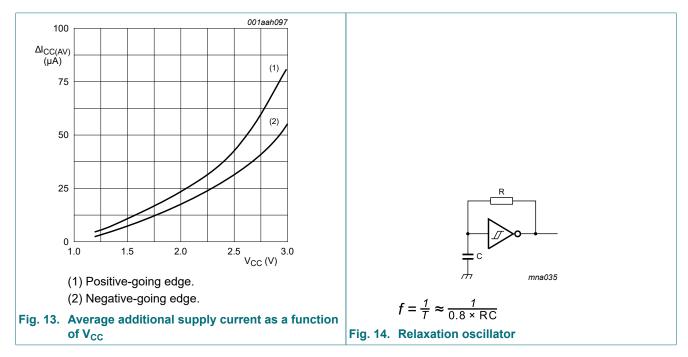
 t_r = rise time (ns); 10 % to 90 %;

 t_f = fall time (ns); 90 % to 10 %;

 $\Delta I_{CC(AV)}$ = average additional supply current (μA).

Average $\Delta I_{CC(AV)}$ differs with positive or negative input transitions, as shown in Fig. 13.

An example of a relaxation circuit using the 74LV14 is shown in Fig. 14.

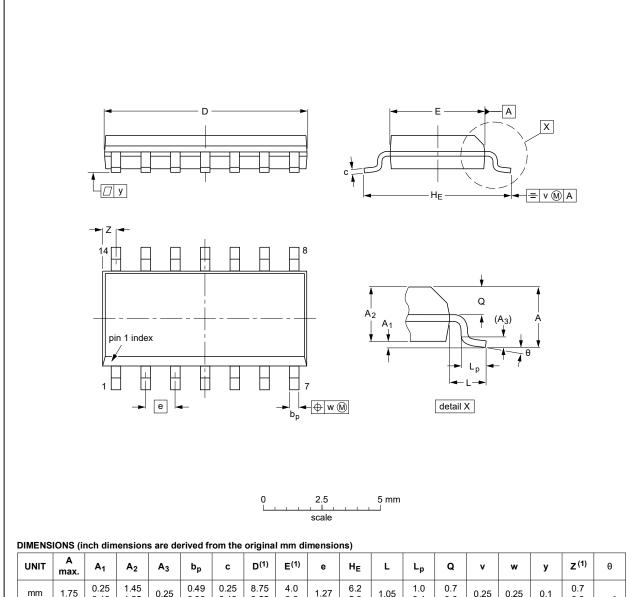


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14. Package outline

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

SOT108-1



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

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

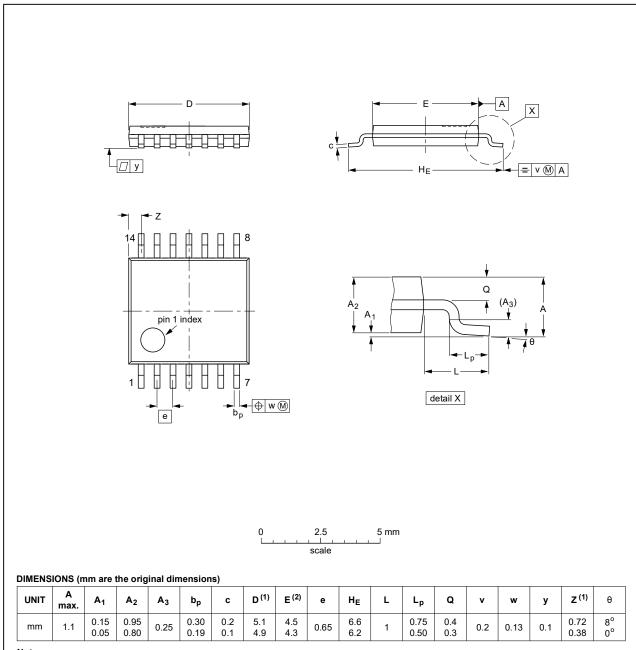
OUTLINE	REFERENCES				EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT108-1	076E06	MS-012				99-12-27 03-02-19

Fig. 15. 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



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

Fig. 16. Package outline SOT402-1 (TSSOP14)

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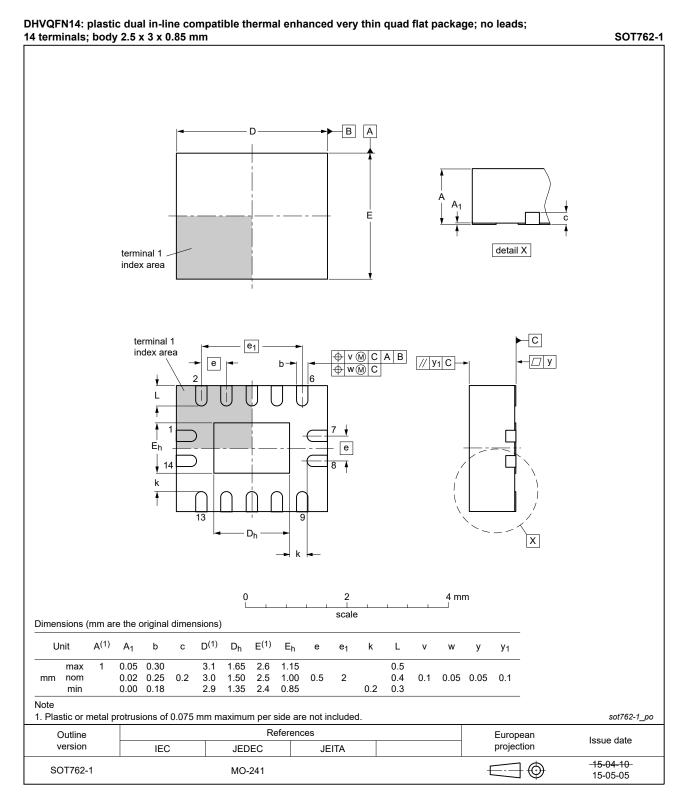


Fig. 17. Package outline SOT762-1 (DHVQFN14)

Hex inverting Schmitt trigger

15. Abbreviations

Table 11. 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			

16. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LV14 v.9	20210914	Product data sheet	-	74LV14 v.8	
Modifications:	 Type number 74LV14DB (SOT337-1/SSOP14) removed. Section 2 updated. 				
74LV14 v.8	20210304 Product data sheet - 74LV14 v.7				
Modifications:	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Section 8: Derating values for P_{tot} total power dissipation updated. 				
74LV14 v.7	20151209	Product data sheet	-	74LV14 v.6	
Modifications:	Type number 74LV14N (SOT27-1) removed.				
74LV14 v.6	20111212	Product data sheet	-	74LV14 v.5	
Modifications:	Legal pages updated.				
74LV14 v.5	20110105	Product data sheet	-	74LV14 v.4	
74LV14 v.4	20090702	Product data sheet	-	74LV14 v.3	
74LV14 v.3	20071220	Product data sheet	-	74LV14 v.2	
74LV14 v.2	19980420	Product specification	-	74LV14 v.1	
74LV14 v.1	19970203	Product specification	-	-	

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17. 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.

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- [2] The term 'short data sheet' is explained in section "Definitions".
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Hex inverting Schmitt trigger

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