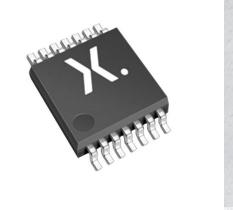


74LVC132APW,112 Datasheet

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DiGi Electronics Part Number 74LVC132APW,112-DG

Manufacturer Nexperia USA Inc.

Manufacturer Product Number 74LVC132APW,112

Description IC GATE NAND 4CH 2-INP 14TSSOP

Detailed Description NAND Gate IC 4 Channel Schmitt Trigger 14-TSSOP



Tel: +00 852-30501935

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
74LVC132APW,112	Nexperia USA Inc.
Series:	Product Status:
74LVC	Obsolete
Logic Type:	Number of Circuits:
NAND Gate	4
Number of Inputs:	Features:
2	Schmitt Trigger
Voltage - Supply:	Current - Quiescent (Max):
1.2V ~ 3.6V	40 μΑ
Current - Output High, Low:	Input Logic Level - Low:
24mA, 24mA	0.12V ~ 0.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1V ~ 2V	6.4ns @ 3.3V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
14-TSSOP	14-TSSOP (0.173", 4.40mm Width)
Base Product Number:	
74LVC132	

Environmental & Export classification

8542.39.0001

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	

74LVC132A

Quad 2-input NAND Schmitt trigger

Rev. 6 — 12 February 2024

Product data sheet

1. General description

The 74LVC132A provides four 2-input NAND gates with Schmitt trigger inputs. 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 $V_{H_{-}}$.

Inputs can be driven from either 3.3~V or 5~V devices. This feature allows the use of these devices as translators in mixed 3.3~V and 5~V environment.

2. Features and benefits

- Wide supply voltage range from 1.2 V to 3.6 V
- 5 V tolerant inputs for interfacing with 5 V logic
- CMOS low-power consumption
- Direct interface with TTL levels
- · Unlimited input rise and fall times
- Inputs accept voltages up to 5.5 V
- Complies with JEDEC standard JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Applications

- · Wave and pulse shapers for highly noisy environments
- Astable multivibrator
- Monostable multivibrator.

4. Ordering information

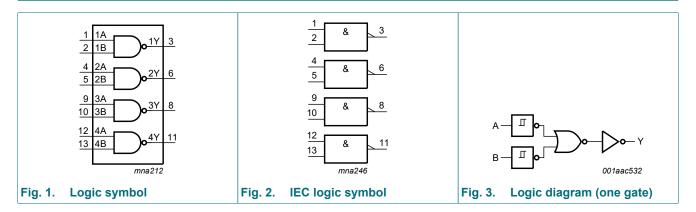
Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC132AD	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74LVC132APW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1
74LVC132ABQ	-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



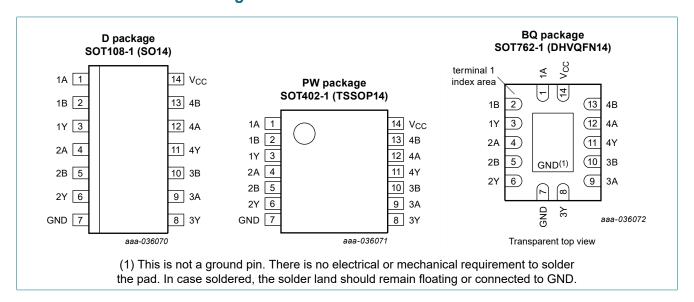
Quad 2-input NAND Schmitt trigger

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

Table 2. Pin description

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

Quad 2-input NAND Schmitt trigger

7. Functional description

Table 3. Function table

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

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

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	+6.5	V
VI	input voltage	[1]	-0.5	+6.5	V
Vo	output voltage	[2]	-0.5	V _{CC} + 0.5	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mΑ
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$	-	±50	mΑ
I _O	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mΑ
I _{CC}	supply current		-	100	mΑ
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.

9. 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		-40	-	+125	°C

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

^[3] For SOT108-1 (SO14) package: P_{tot} 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.

Quad 2-input NAND Schmitt trigger

10. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
T _{amb} = -	40 °C to +85 °C					
V _{OH}	HIGH-level output	$V_I = V_{T+}$ or V_{T-}				
	voltage	I _O = -100 μA; V _{CC} = 1.65 V to 3.6 V	V _{CC} - 0.2	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	V _{CC} - 0.45	-	-	V
		I_{O} = -8 mA; V_{CC} = 2.3 V	V _{CC} - 0.5	-	-	V
		I_{O} = -12 mA; V_{CC} = 2.7 V	V _{CC} - 0.5	-	-	V
		I_{O} = -18 mA; V_{CC} = 3.0 V	V _{CC} - 0.6	-	-	V
		I_{O} = -24 mA; V_{CC} = 3.0 V	V _{CC} - 0.8	-	-	V
V _{OL}	LOW-level output	$V_I = V_{T+}$ or V_{T-}				
	voltage	I_{O} = 100 μ A; V_{CC} = 1.65 V to 3.6 V	-	-	0.2	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	V
		I_{O} = 8 mA; V_{CC} = 2.3 V	-	-	0.6	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	V
I _I	input leakage current	V _{CC} = 3.6 V; V _I = 5.5 V or GND	-	±0.1	±5	μA
I _{CC}	supply current	$V_{CC} = 3.6 \text{ V}; V_{I} = V_{CC} \text{ or GND}; I_{O} = 0 \text{ A}$	-	0.1	10	μΑ
ΔI _{CC}	additional supply current	per input pin; $V_{CC} = 2.7 \text{ V to } 3.6 \text{ V};$ $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}$	-	5	500	μΑ
Cı	input capacitance	V_{CC} = 0 V to 3.6 V; V_I = GND to V_{CC}	-	4.0	-	pF
T _{amb} = -	40 °C to +125 °C			'		
V _{OH}	HIGH-level output	$V_I = V_{T+}$ or V_{T-}				
	voltage	I _O = -100 μA; V _{CC} = 1.65 V to 3.6 V	V _{CC} - 0.3	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	V _{CC} - 0.6	-	-	V
		I_{O} = -8 mA; V_{CC} = 2.3 V	V _{CC} - 0.65	-	-	V
		I_{O} = -12 mA; V_{CC} = 2.7 V	V _{CC} - 0.65	-	-	V
		I_{O} = -18 mA; V_{CC} = 3.0 V	V _{CC} - 0.75	-	-	V
		I_{O} = -24 mA; V_{CC} = 3.0 V	V _{CC} - 1	-	-	V
V _{OL}	LOW-level output	$V_I = V_{T+}$ or V_{T-}				
	voltage	I_{O} = 100 μ A; V_{CC} = 1.65 V to 3.6 V	-	-	0.3	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.65	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.8	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.6	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.8	V
I _I	input leakage current	V _{CC} = 3.6 V; V _I = 5.5 V or GND	-	-	±20	μA
I _{CC}	supply current	$V_{CC} = 3.6 \text{ V}; V_{I} = V_{CC} \text{ or GND}; I_{O} = 0 \text{ A}$	-	-	40	μA
ΔI _{CC}	additional supply current	per input pin; $V_{CC} = 2.7 \text{ V to } 3.6 \text{ V};$ $V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}$	-	-	5	mA

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

Quad 2-input NAND Schmitt trigger

11. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 5.

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C		-40 °C to	+125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
t _{pd}	propagation delay	nA, nB to nY; see Fig. 4]					
		V _{CC} = 1.2 V	-	18.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	2.0	7.2	12.8	2.0	16.0	ns
		V _{CC} = 2.3 V to 2.7 V	1.5	4.0	7.6	1.5	9.6	ns
		V _{CC} = 2.7 V	1.5	3.8	7.6	1.5	9.6	ns
		V _{CC} = 3.0 V to 3.6 V	1.5	3.4	6.4	1.5	8.0	ns
t _{sk(o)}	output skew time	[3] -	-	1.0	-	1.5	ns
C _{PD}	· ·	per buffer; V_I = GND to V_{CC} [4]					
	capacitance	V _{CC} = 1.65 V to 1.95 V	-	10.5	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	10.8	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	11.4	-	-	-	pF

- 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.
- [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. C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$ where:

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

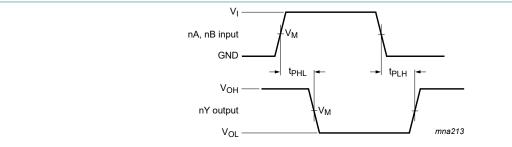
N = number of inputs switching;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

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

11.1. Waveforms and test circuit



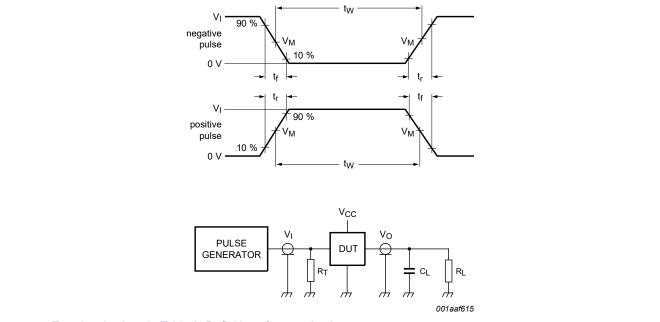
 $V_M = 1.5 \text{ V at } V_{CC} \ge 2.7 \text{ V}.$

 $V_M = 0.5 \times V_{CC}$ at $V_{CC} < 2.7$ V.

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

Fig. 4. The input (nA, nB) to output (nY) propagation delays

Quad 2-input NAND Schmitt trigger



Test data is given in <u>Table 8</u>. 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_{o} of the pulse generator.

Fig. 5. Test circuit for measuring switching times

Table 8. Test data

Supply voltage	Input	Input		
	V _I	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

Quad 2-input NAND Schmitt trigger

12. Transfer characteristics

Table 9. Transfer characteristics

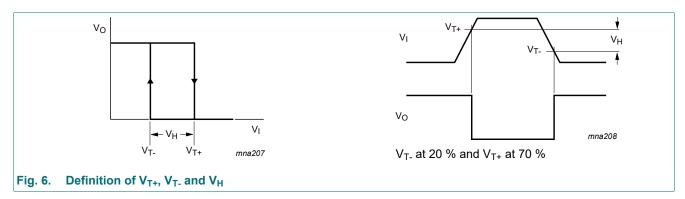
Voltages are referenced to GND (ground = 0 V); see Fig. 6.

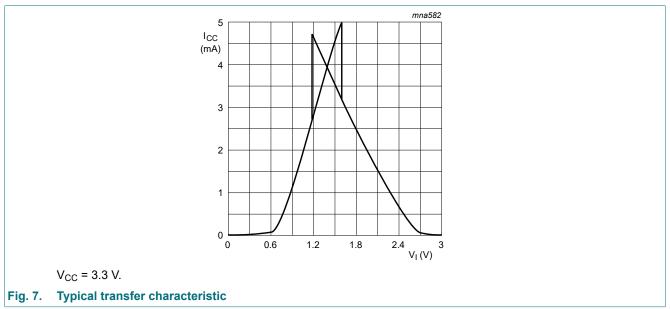
Symbol	Parameter	Conditions	-40 °C t	o +85 °C	-40 °C to +125 °C		Unit
			Min	Max	Min	Max	
V _{T+}	positive-going threshold	V _{CC} = 1.2 V	0.2	1.0	0.2	1.0	V
	voltage	V _{CC} = 1.65 V	0.4	1.3	0.4	1.3	V
		V _{CC} = 1.95 V	0.6	1.5	0.6	1.5	V
		V _{CC} = 2.3 V	0.8	1.7	0.8	1.7	V
		V _{CC} = 2.5 V	0.9	1.7	0.9	1.7	V
		V _{CC} = 2.7 V	1.1	2	1.1	2	V
		V _{CC} = 3 V	1.2	2	1.2	2	V
		V _{CC} = 3.6 V	1.2	2	1.2	2	V
V_{T-}	negative-going threshold	V _{CC} = 1.2 V	0.12	0.75	0.12	0.75	V
	voltage	V _{CC} = 1.65 V	0.15	0.85	0.15	0.85	V
		V _{CC} = 1.95 V	0.25	0.95	0.25	0.95	V
		V _{CC} = 2.3 V	0.4	1.1	0.4	1.1	V
		V _{CC} = 2.5 V	0.4	1.2	0.4	1.2	V
		V _{CC} = 2.7 V	0.8	1.4	0.8	1.4	V
		V _{CC} = 3 V	0.8	1.5	0.8	1.5	V
		V _{CC} = 3.6 V	0.8	1.5	0.8	1.5	V
V _H	hysteresis voltage	V _{CC} = 1.2 V	0.1	1.0	0.1	1.0	V
	$(V_{T+} - V_{T-})$	V _{CC} = 1.65 V	0.2	1.15	0.2	1.15	V
		V _{CC} = 1.95 V	0.2	1.25	0.2	1.25	V
		V _{CC} = 2.3 V	0.3	1.3	0.3	1.3	V
		V _{CC} = 2.5 V	0.3	1.3	0.3	1.3	V
		V _{CC} = 2.7 V	0.3	1.1	0.3	1.1	V
		V _{CC} = 3 V	0.3	1.2	0.3	1.2	V
		$V_{CC} = 3.6 \text{ V}$ [1]	0.3	1.2	0.3	1.2	V

^[1] Typical transfer characteristic is displayed in Fig. 7.

Quad 2-input NAND Schmitt trigger

12.1. Waveforms transfer characteristics





Quad 2-input NAND Schmitt trigger

13. Package outline

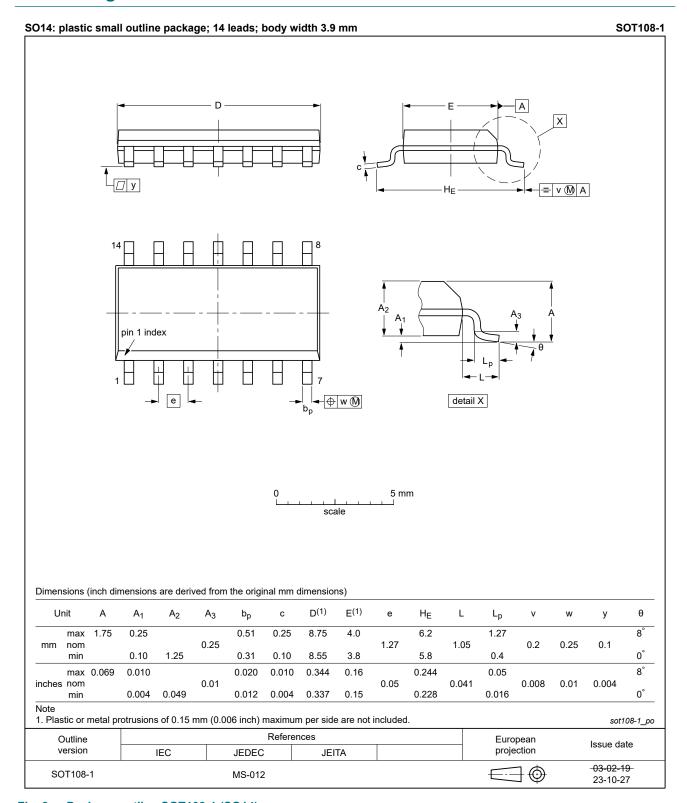


Fig. 8. Package outline SOT108-1 (SO14)

Quad 2-input NAND Schmitt trigger

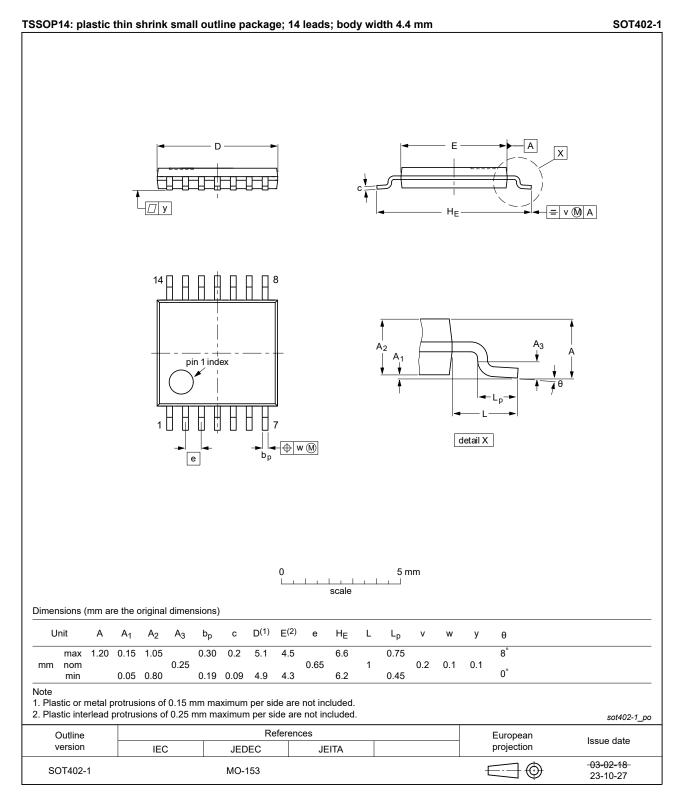


Fig. 9. Package outline SOT402-1 (TSSOP14)

Quad 2-input NAND Schmitt trigger

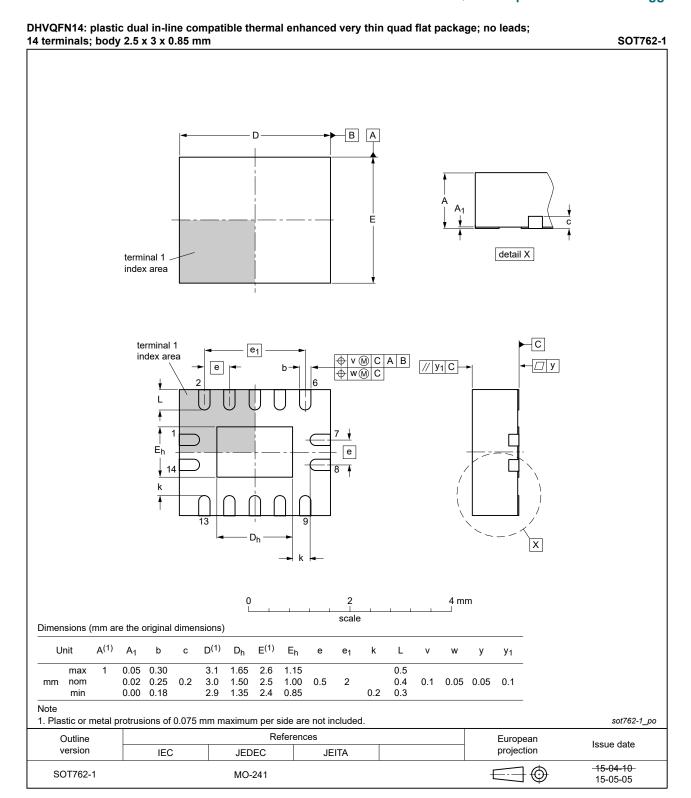


Fig. 10. Package outline SOT762-1 (DHVQFN14)

Nexperia

Quad 2-input NAND Schmitt trigger

74LVC132A

14. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
TTL	Transistor-Transistor Logic

15. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LVC132A v.6	20240212	Product data sheet	-	74LVC132A v.5		
Modifications:	• <u>Fig. 8, Fig.</u> MO-153.	 Fig. 8, Fig. 9: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153. 				
74LVC132A v.5	20230803	Product data sheet	-	74LVC132A v.4		
Modifications:	Section 2: E	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74LVC132A v.4	20200706	Product data sheet	-	74LVC132A v.3		
Modifications:	guidelines of Legal texts Table 4: De	 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. Table 4: Derating values for P_{tot} total power dissipation updated. Fig. 10: Package outline drawing SOT762-1 (DHVQFN14) updated. 				
74LVC132A v.3	20111207	Product data sheet	-	74LVC132A v.2		
Modifications:	Legal page:	Legal pages updated.				
74LVC132A v.2	20110829	Product data sheet	-	74LVC132A v.1		
74LVC132A v.1	20061215	Product data sheet	-	-		

Quad 2-input NAND Schmitt trigger

16. 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.

- 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 NAND Schmitt trigger

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