74LV132

Quad 2-input NAND Schmitt trigger

Rev. 8 — 13 September 2021 Product data sheet

1. General description

The 74LV132 is a quad 2-input NAND gate with Schmitt-trigger inputs. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess V_{CC}.

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

4. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LV132D	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74LV132PW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1
74LV132BQ	-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

nexperia

5. Functional diagram

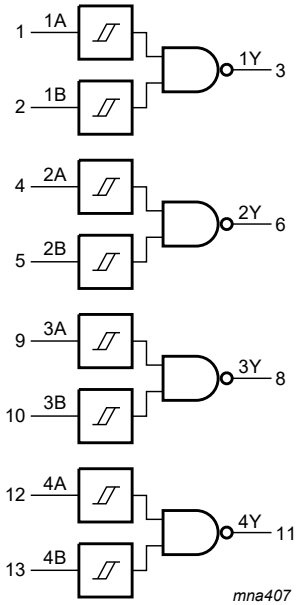


Fig. 1. Logic symbol

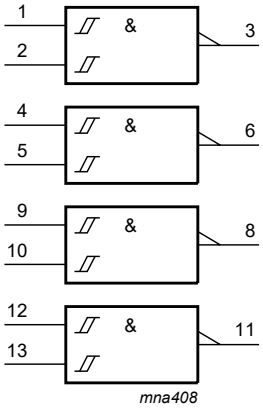


Fig. 2. IEC logic symbol

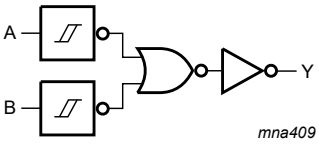


Fig. 3. Logic diagram (one gate)

6. Pinning information

6.1. Pinning

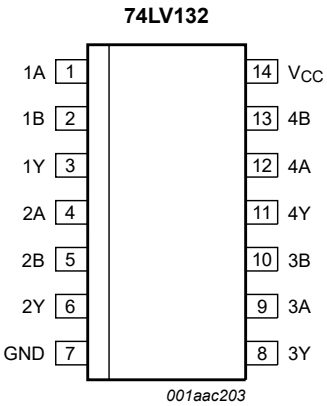
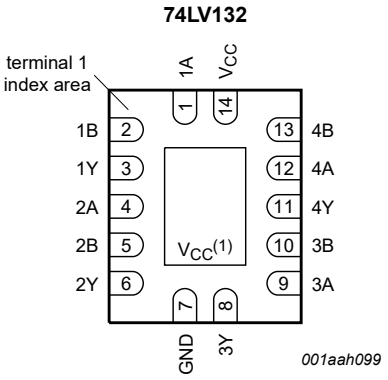


Fig. 4. Pin configuration SOT108-1 (SO14) and SOT402-1 (TSSOP14)



Transparent top view

(1) This is not a supply pin. There is no electrical or mechanical requirement to solder the pad. In case soldered, the solder land should remain floating or connected to V_{CC}

Fig. 5. Pin configuration SOT762-1 (DHVQFN14)

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

7. Functional description

Table 3. Function table

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

Input		Output
nA	**nB**	**nY**
L	L	H
L	H	H
H	L	H
H	H	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	+7.0	V
I_{IK}	input clamping current	$V_I < -0.5$ V or $V_I > V_{CC} + 0.5$ V	[1]	-	±20	mA
I_{OK}	output clamping current	$V_O < -0.5$ V or $V_O > V_{CC} + 0.5$ V	[1]	-	±50	mA
I_O	output current	V_O = -0.5 V to (V_{CC} + 0.5 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 °C to +125 °C	[2]	-	500	mW

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
[2] For SOT108-1 (SO14) package: P_{tot} derates linearly with 10.1 mW/K above 100 °C.
For SOT402-1 (TSSOP14) package: P_{tot} derates linearly with 7.3 mW/K above 81 °C.
For SOT762-1 (DHVQFN14) package: P_{tot} derates linearly with 9.6 mW/K above 98 °C.

9. Recommended operating conditions

Table 5. Recommended operating conditions

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{CC}	supply voltage	[1]	1.0	3.3	5.5	V
V_I	input voltage		0	-	V_{CC}	V
V_O	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}).

10. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
V_{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}						
		I_O = -100 µA; V_{CC} = 1.2 V	-	1.2	-	-	-	V
		I_O = -100 µA; V_{CC} = 2.0 V	1.8	2.0	-	1.8	-	V
		I_O = -100 µA; V_{CC} = 2.7 V	2.5	2.7	-	2.5	-	V
		I_O = -100 µA; V_{CC} = 3.0 V	2.8	3.0	-	2.8	-	V
		I_O = -100 µA; 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 mA; V_{CC} = 4.5 V	3.6	4.2	-	3.5	-	V
V_{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}						
		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 µA; 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 µA; 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 mA; V_{CC} = 4.5 V	-	0.35	0.55	-	0.65	V
I_I	input leakage current	$V_I = V_{CC}$ or GND; V_{CC} = 5.5 V	-	-	1.0	-	1.0	µA
I_{CC}	supply current	$V_I = V_{CC}$ or GND; I_O = 0 A; V_{CC} = 5.5 V	-	-	20.0	-	40	µA
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	µA
C_I	input capacitance		-	3.5	-	-	-	pF

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

11. Dynamic characteristics

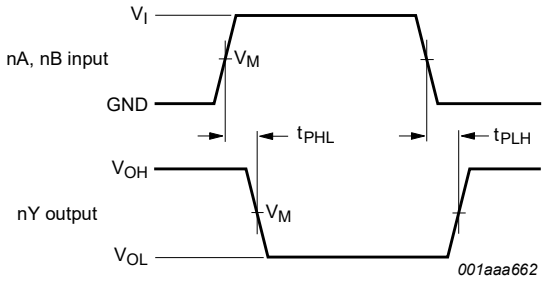
Table 7. Dynamic characteristics

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

Symbol	Parameter	Conditions	-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. 6 [2]						
		V_{CC} = 1.2 V	-	65	-	-	-	ns
		V_{CC} = 2.0 V	-	18	34	-	43	ns
		V_{CC} = 2.7 V	-	15	24	-	30	ns
		V_{CC} = 3.0 V to 3.6 V; C_L = 15 pF [3]	-	10	-	-	-	ns
		V_{CC} = 3.0 V to 3.6 V [3]	-	12	20	-	25	ns
		V_{CC} = 4.5 V to 5.5 V [3]	-	9.0	14	-	17	ns
C_{PD}	power dissipation capacitance	C_L = 50 pF; f_i = 1 MHz; V_I = GND to V_{CC} [4]	-	24	-	-	-	pF

[1] All typical values are measured at T_{amb} = 25 °C.
[2] t_{pd} is the same as t_{PLH} and t_{PHL}.
[3] Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V and V_{CC} = 5.0 V).
[4] C_{PD} is used to determine the dynamic power dissipation (P_D in µW).
$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$ 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
$\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs.

11.1. Waveforms and test circuit



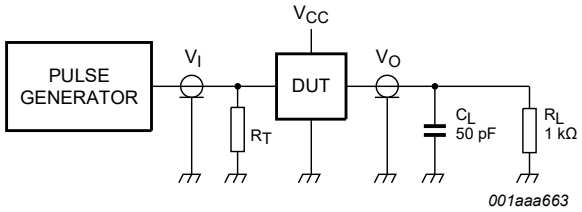
Measurement points are given in Table 8.

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

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

Table 8. Measurement points

Supply voltage	Input	Output
V_{CC}	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	$0.5V_{CC}$	$0.5V_{CC}$



Test data is given in Table 9.

Definitions test circuit:

R_T = Termination resistance should be equal to output impedance Z_o 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	Input	
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

GND = 0 V; See Fig. 8 to Fig. 12.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
V_{T+}	positive-going threshold voltage	see Fig. 8 to Fig. 12						
		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	3.2	1.7	3.2	V
		V_{CC} = 5.5 V	2.1	3.00	3.9	2.1	3.9	V
V_{T-}	negative-going threshold voltage	see Fig. 8 to Fig. 12						
		V_{CC} = 1.2 V	-	0.34	-	-	-	V
		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	1.2	2.00	2.6	1.2	2.6	V
V_H	hysteresis voltage	(V_{T+} - V_{T-}); see Fig. 8 to Fig. 12						
		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

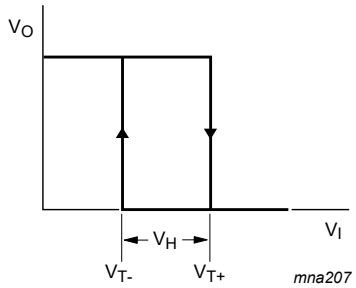
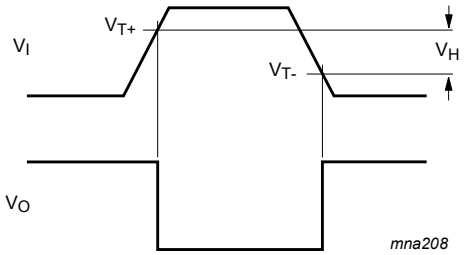
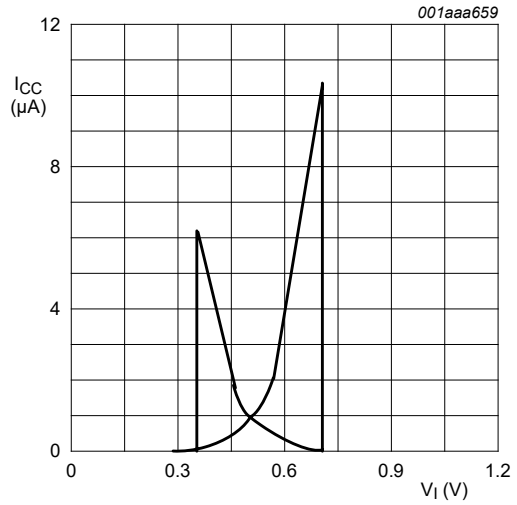


Fig. 8. Transfer characteristic



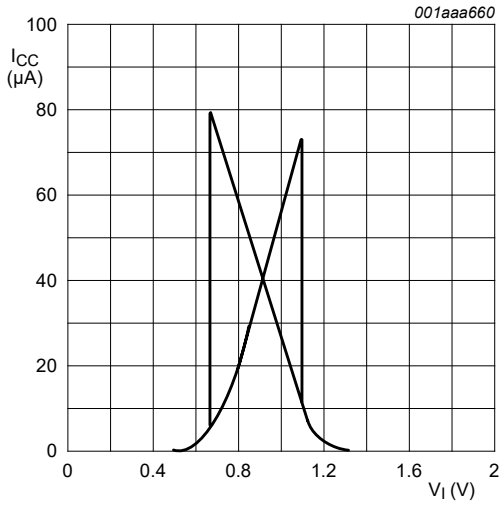
V_{T+} and V_{T-} limits at 70 % and 20 %.

Fig. 9. Definition of V_{T+}, V_{T-} and V_H



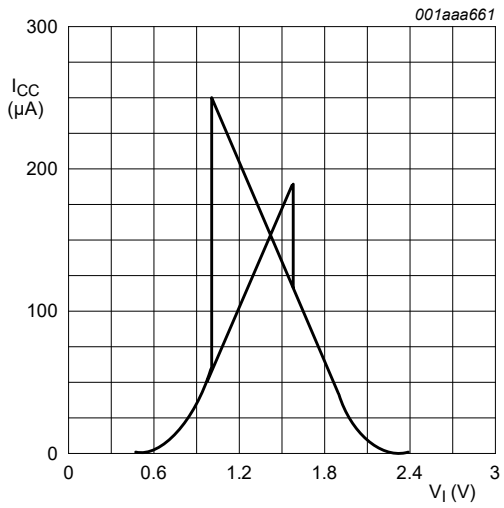
V_{CC} = 1.2 V.

Fig. 10. Typical 74LV132 transfer characteristics



V_{CC} = 2.0 V.

Fig. 11. Typical 74LV132 transfer characteristics

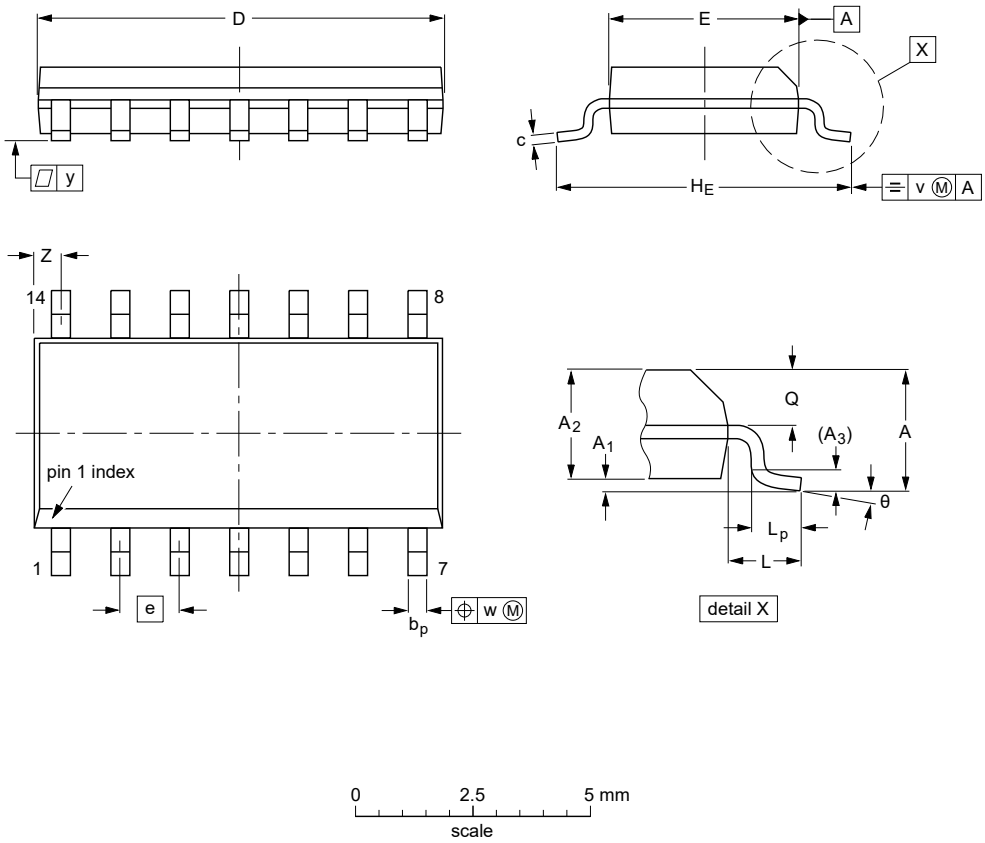


V_{CC} = 3.0 V.

Fig. 12. Typical 74LV132 transfer characteristics

13. Package outline

SO14: plastic small outline package; 14 leads; body width 3.9 mm **SOT108-1**



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	$D^{(1)}$	$E^{(1)}$	e	H_E	L	L_p	Q	v	w	y	$Z^{(1)}$	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^o 0^o
inches	0.069	0.010 0.004	0.057 0.049	0.01	0.019 0.014	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	

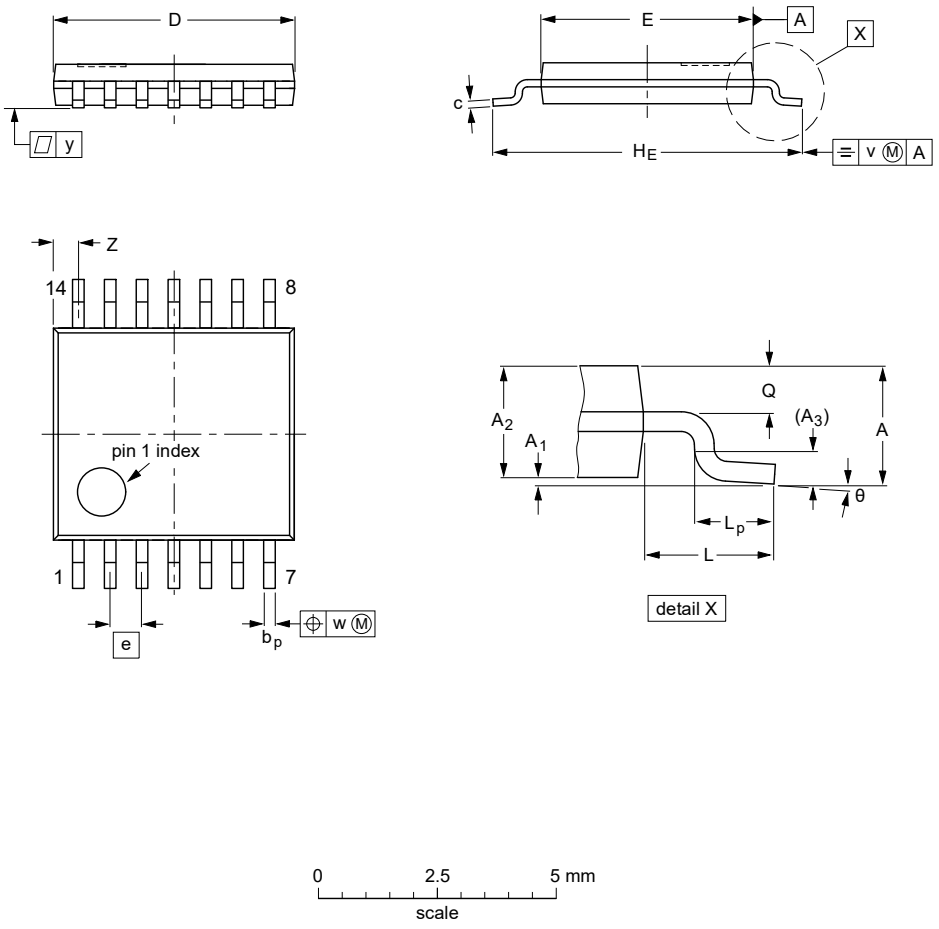
Note

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

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

Fig. 13. Package outline SOT108-1 (SO14)

TSSOP14: plastic thin shrink small outline package; 14 leads; body width 4.4 mm **SOT402-1**



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	D (1)	E (2)	e	H_E	L	L_p	Q	v	w	y	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°

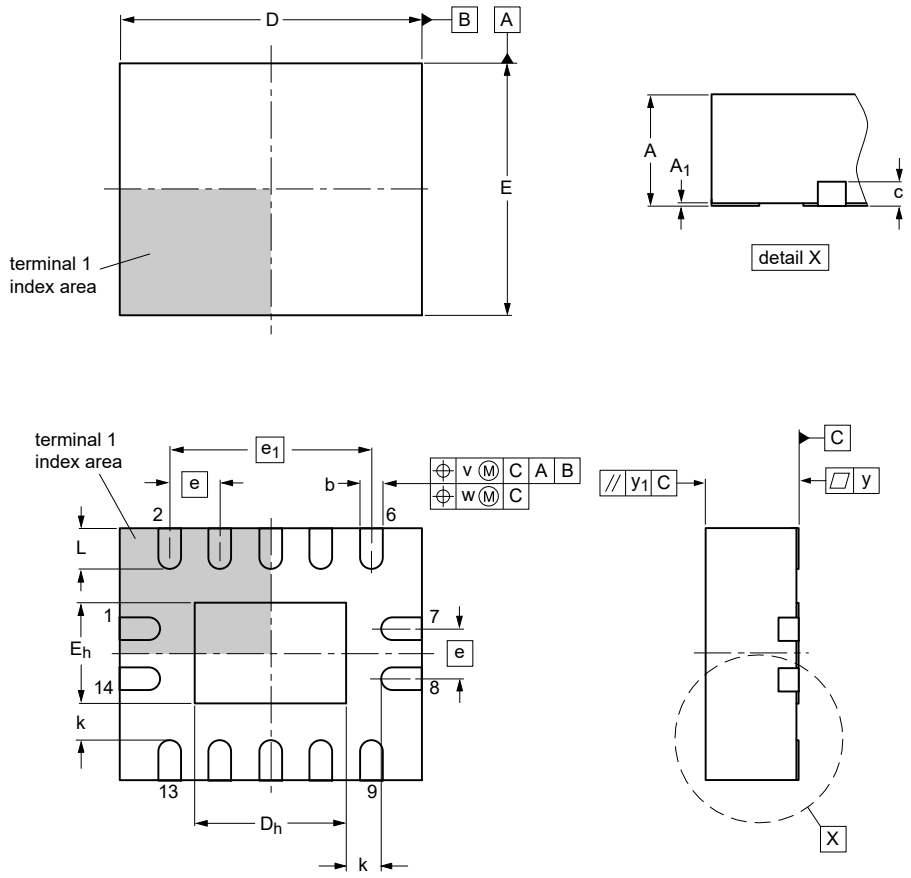
Notes

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

Fig. 14. Package outline SOT402-1 (TSSOP14)

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**



Dimensions (mm are the original dimensions)

Unit		$A^{(1)}$	A_1	b	c	$D^{(1)}$	D_h	$E^{(1)}$	E_h	e	e_1	k	L	v	w	y	y_1
	max	1	0.05	0.30		3.1	1.65	2.6	1.15				0.5				
mm	nom		0.02	0.25	0.2	3.0	1.50	2.5	1.00	0.5	2		0.4	0.1	0.05	0.05	0.1
	min		0.00	0.18		2.9	1.35	2.4	0.85			0.2	0.3				

Note

1. Plastic or metal protrusions of 0.075 mm maximum per side are not included.

sot762-1_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT762-1		MO-241				~~15-04-10~~ 15-05-05

Fig. 15. Package outline SOT762-1 (DHVQFN14)

14. Abbreviations

Table 11. Abbreviations

Acronym	Description
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV132 v.8	20210913	Product data sheet	-	74LV132 v.7
Modifications:	• Type number 74LV132DB (SOT337-1/SSOP14) removed. • Section 1 updated. • Section 2 updated.			
74LV132 v.7	20200520	Product data sheet	-	74LV132 v.6
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. • Table 4: Derating values for P_{tot} total power dissipation updated.			
74LV132 v.6	20151209	Product data sheet	-	74LV132 v.5
Modifications:	• Type number 74LV132N (SOT27-1) removed.			
74LV132 v.5	20090702	Product data sheet	-	74LV132 v.4
Modifications:	• Table 6: the conditions for HIGH-level output voltage and LOW-level output voltage have been changed.			
74LV132 v.4	20071112	Product data sheet	-	74LV132 v.3
74LV132 v.3	20040415	Product specification	-	74LV132 v.2
74LV132 v.2	19980428	Product specification	-	74LV132 v.1
74LV132 v.1	19970204	Product specification	-	-

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.

[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 https://www.nexperia.com.

Definitions

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