

74AHCT132D-Q100J Datasheet



DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description

74AHCT132D-Q100J-DG Nexperia USA Inc. 74AHCT132D-Q100J IC GATE NAND 4CH 2-INP 14SO NAND Gate IC 4 Channel 14-SO

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Manufacturer Product Number:	Manufacturer:
74AHCT132D-Q100J	Nexperia USA Inc.
Series:	Product Status:
74AHCT	Active
Logic Type:	Number of Circuits:
NAND Gate	4
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
4.5V ~ 5.5V	2 μΑ
Current - Output High, Low:	Input Logic Level - Low:
8mA, 8mA	
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
-	8ns @ 5V, 50pF
Operating Temperature:	Grade:
-40°C ~ 125°C	Automotive
Qualification:	Mounting Type:
AEC-Q100	Surface Mount
Supplier Device Package:	Package / Case:
14-50	14-SOIC (0.154", 3.90mm Width)
Base Product Number:	
74AHCT132	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

74AHC132-Q100; 74AHCT132-Q100

Quad 2-input NAND Schmitt trigger Rev. 4 — 29 February 2024

Product data sheet

1. General description

The 74AHC132-Q100; 74AHCT132-Q100 is a quad 2-input NAND gate with Schmitt-trigger inputs. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. Features and benefits

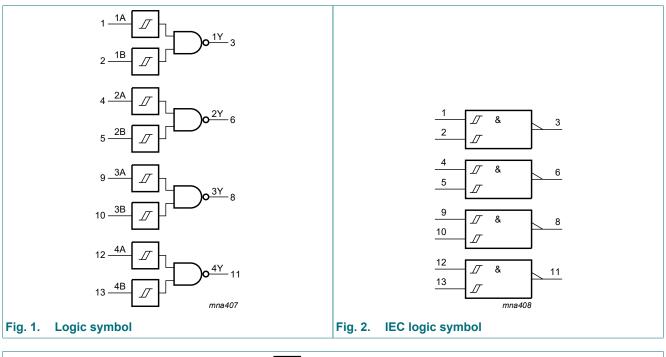
- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Wide supply voltage range from 2.0 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- CMOS low power dissipation
- Input levels:
 - For 74AHC132-Q100: CMOS level
 - For 74AHCT132-Q100: TTL level
 - Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- DHVQFN package with Side-Wettable Flanks enabling Automatic Optical Inspection (AOI) of solder joints



3. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74AHC132D-Q100 74AHCT132D-Q100	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	<u>SOT108-1</u>						
74AHC132PW-Q100 74AHCT132PW-Q100	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	<u>SOT402-1</u>						
74AHC132BQ-Q100 74AHCT132BQ-Q100	-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	<u>SOT762-1</u>						

4. Functional diagram



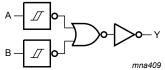
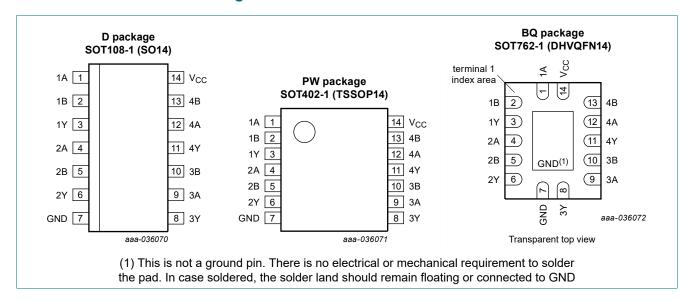


Fig. 3. Logic diagram (one Schmitt trigger)

5. Pinning information



5.1. Pinning

5.2. Pin description

Table 2. Pin description

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

6. Functional description

Table 3. Function table

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

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

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	Мах	Unit
V _{CC}	supply voltage			-0.5	+7.0	V
VI	input voltage			-0.5	+7.0	V
I _{IK}	input clamping current	V _I < -0.5 V	[1]	-20	-	mA
I _{ОК}	output clamping current	$V_{\rm O}$ < -0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	[1]	-20	+20	mA
I _O	output current	$V_{O} = -0.5 \text{ V to} (V_{CC} + 0.5 \text{ V})$		-25	+25	mA
I _{CC}	supply current			-	+75	mA
I _{GND}	ground current			-75	-	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 $^\circ\text{C}.$

For SOT762-1 (DHVQFN14) package: P_{tot} derates linearly with 9.6 mW/K above 98 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

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

Symbol	Parameter Conditions		74A	HC132-C	2100	74AI	Unit		
			Min	Тур	Мах	Min	Тур	Max]
V _{CC}	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	0	-	5.5	V
Vo	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and	V _{CC} = 3.3 V ± 0.3 V	-	-	100	-	-	-	ns/V
	fall rate	V _{CC} = 5.0 V ± 0.5 V	-	-	20	-	-	20	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 to +85 °C		-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Мах	Min	Max	
74AHC1	32-Q100	1								
V _{OH}	HIGH-level	$V_{I} = V_{T+}$ or V_{T-}								
	output voltage	I _O = -50 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	2.2	1.9	-	V
		I _O = -50 μA; V _{CC} = 3.0 V	2.9	3.0	-	2.9	3.15	2.9	-	V
		I _O = -50 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	3.85	4.4	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		I _O = -8.0 mA; V _{CC} = 4.5 V	3.94	-	-	3.80	-	3.70	-	V
V _{OL}	LOW-level	$V_{I} = V_{T+}$ or V_{T-}								
	output voltage	I _O = 50 μA; V _{CC} = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 50 μA; V _{CC} = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 50 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		I _O = 8.0 mA; V _{CC} = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
I _{CC}	supply current	$V_1 = V_{CC}$ or GND; $I_0 = 0$ A; $V_{CC} = 5.5$ V	-	-	2.0	-	20	-	40	μA
CI	input capacitance	V _I = V _{CC} or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF
74AHCT	132-Q100	1								1
V _{OH}	HIGH-level	$V_{I} = V_{T+}$ or V_{T-} ; $V_{CC} = 4.5 V$								
	output voltage	I _O = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -8.0 mA	3.94	-	-	3.80	-	3.70	-	V
V _{OL}	LOW-level	$V_{I} = V_{T+} \text{ or } V_{T-}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
l _l	input leakage current	V ₁ = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
I _{CC}	supply current	$V_1 = V_{CC}$ or GND; $I_0 = 0$ A; $V_{CC} = 5.5$ V	-	-	2.0	-	20	-	40	μA
ΔI _{CC}	additional supply current	per input pin; V _I = V _{CC} - 2.1 V; other pins at V _{CC} or GND; $I_O = 0 A$; V _{CC} = 4.5 V to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
CI	input capacitance	V _I = V _{CC} or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

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

Symbol Parameter		Conditions			25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC1	32-Q100	-									
t _{pd}	propagation	nA, nB to nY; see <u>Fig. 4</u>	[2]								
	delay	V _{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	4.4	11.9	1.0	14.0	1.0	15.0	ns
		C _L = 50 pF		-	6.2	15.4	1.0	17.5	1.0	19.5	ns
		V _{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.3	7.7	1.0	9.0	1.0	10.0	ns
		C _L = 50 pF		-	4.7	9.7	1.0	11.0	1.0	12.5	ns
C _{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz}; V_i = \text{GND to } V_{\text{CC}}$	[3]	-	11	-	-	-	-	-	pF
74AHCT	132-Q100; V _C	_{cc} = 4.5 V to 5.5 V									
t _{pd}	propagation	nA, nB to nY; see Fig. 4	[2]								
	delay	C _L = 15 pF		-	3.5	7.0	1.0	8.0	1.0	9.0	ns
		C _L = 50 pF		-	5.0	8.0	1.0	9.0	1.0	10.0	ns
C _{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz}; V_i = \text{GND to } V_{\text{CC}}$	[3]	-	14	-	-	-	-	-	pF

Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V and V_{CC} = 5.0 V). [1]

[2]

 t_{pd} is the same as t_{PLH} and t_{PHL} . C_{PD} is used to determine the dynamic power dissipation (P_D in μW). [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;

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

10.1. Waveform and test circuit

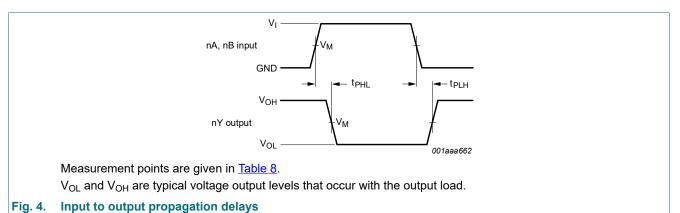
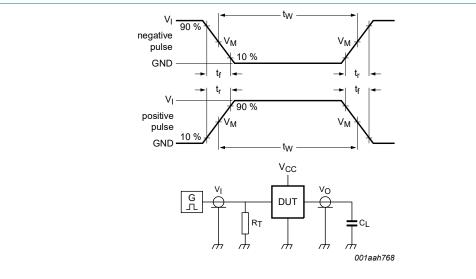


Table 8. Measurement points

Туре	Input	Output
	V _M	V _M
74AHC132-Q100	0.5 x V _{CC}	0.5 x V _{CC}
74AHCT132-Q100	1.5 V	0.5 x V _{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.

C_L = load capacitance including jig and probe capacitance.

Fig. 5. Test circuit for measuring switching times

Table 9. Test data				
Туре	Input		Load	Test
	VI	t _r , t _f	CL	
74AHC132-Q100	V _{CC}	≤ 3.0 ns	50 pF, 15 pF	t _{PLH} , t _{PHL}
74AHCT132-Q100	3.0 V	≤ 3.0 ns	50 pF, 15 pF	t _{PLH} , t _{PHL}

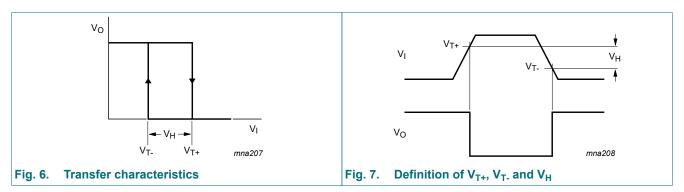
11. Transfer characteristics

Table 10. Transfer characteristics

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

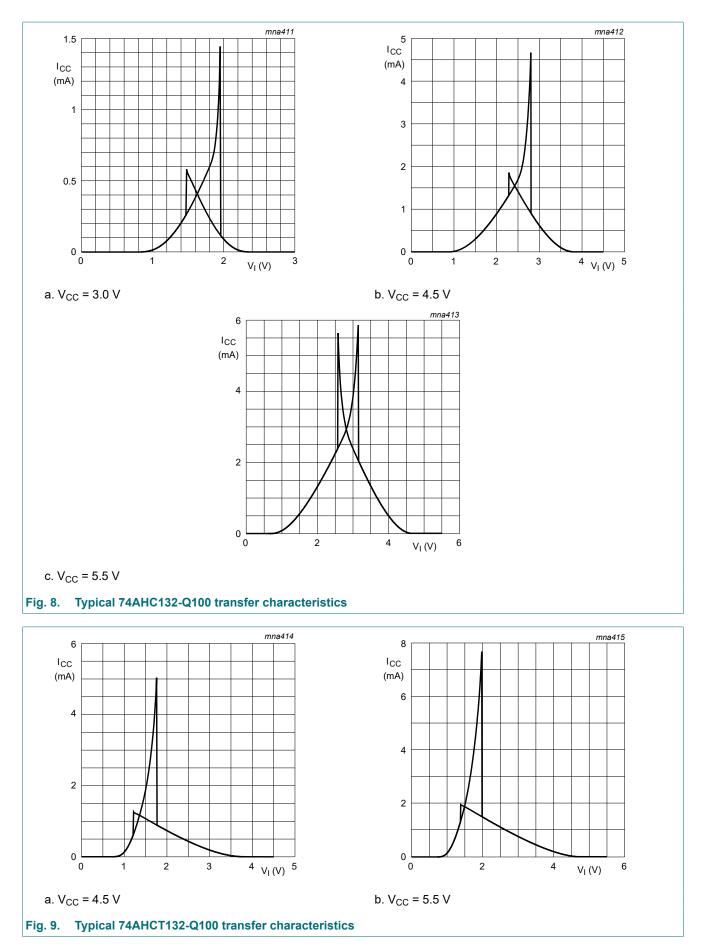
Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74AHC1	32-Q100					1		1	1	
V _{T+}	positive-going threshold	V _{CC} = 3.0 V	-	-	2.2	-	2.2	-	2.2	V
	voltage	V _{CC} = 4.5 V	-	-	3.15	-	3.15	-	3.15	V
		V _{CC} = 5.5 V	-	-	3.85	-	3.85	-	3.85	V
V _{T-}	negative-going threshold	V _{CC} = 3.0 V	0.9	-	-	0.9	-	0.9	-	V
	voltage	V _{CC} = 4.5 V	1.35	-	-	1.35	-	1.35	-	V
		V _{CC} = 5.5 V	1.65	-	-	1.65	-	1.65	-	V
V _H	hysteresis voltage	V _{CC} = 3.0 V	0.3	-	1.2	0.3	1.2	0.25	1.2	V
		V _{CC} = 4.5 V	0.4	-	1.4	0.4	1.4	0.35	1.4	V
		V _{CC} = 5.5 V	0.5	-	1.6	0.5	1.6	0.45	1.6	V
74АНСТ	132-Q100							1	-	
V _{T+}	positive-going threshold	V _{CC} = 4.5 V	-	-	1.9	-	1.9	-	1.9	V
	voltage	V _{CC} = 5.5 V	-	-	2.1	-	2.1	-	2.1	V
V _{T-}	negative-going threshold	V _{CC} = 4.5 V	0.5	-	-	0.5	-	0.5	-	V
	voltage	V _{CC} = 5.5 V	0.6	-	-	0.6	-	0.6	-	V
V _H	hysteresis voltage	V _{CC} = 4.5 V	0.3	-	1.4	0.3	1.4	0.3	1.4	V
	-	V _{CC} = 5.5 V	0.3	-	1.5	0.3	1.5	0.3	1.5	V

11.1. Transfer characteristics waveforms



74AHC132-Q100; 74AHCT132-Q100

Quad 2-input NAND Schmitt trigger

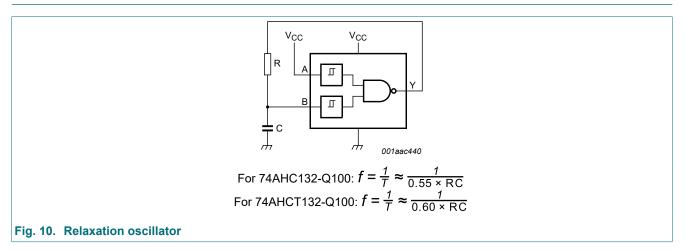


74AHC_AHCT132_Q100

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12. Application information



13. Package outline

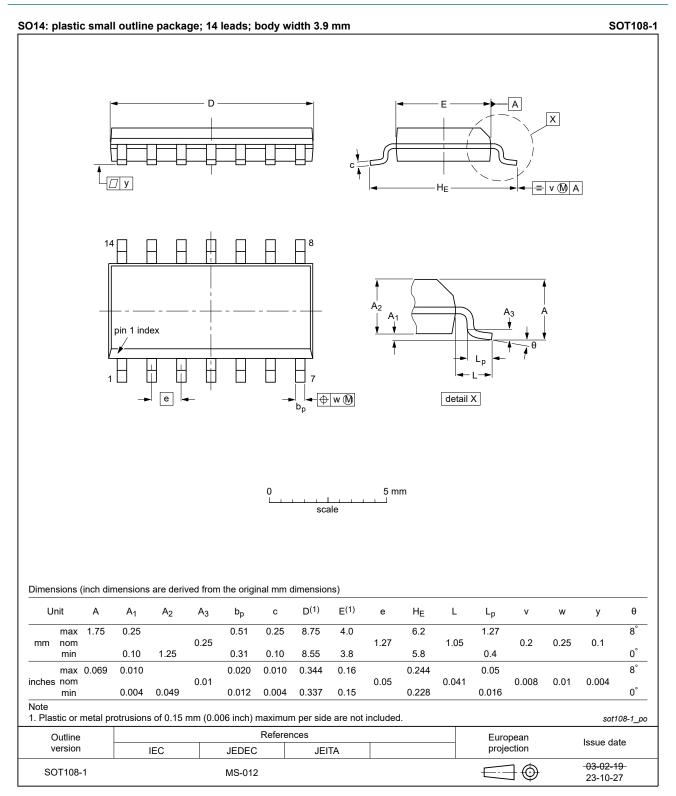


Fig. 11. Package outline SOT108-1 (SO14)

Nexperia

74AHC132-Q100; 74AHCT132-Q100

Quad 2-input NAND Schmitt trigger

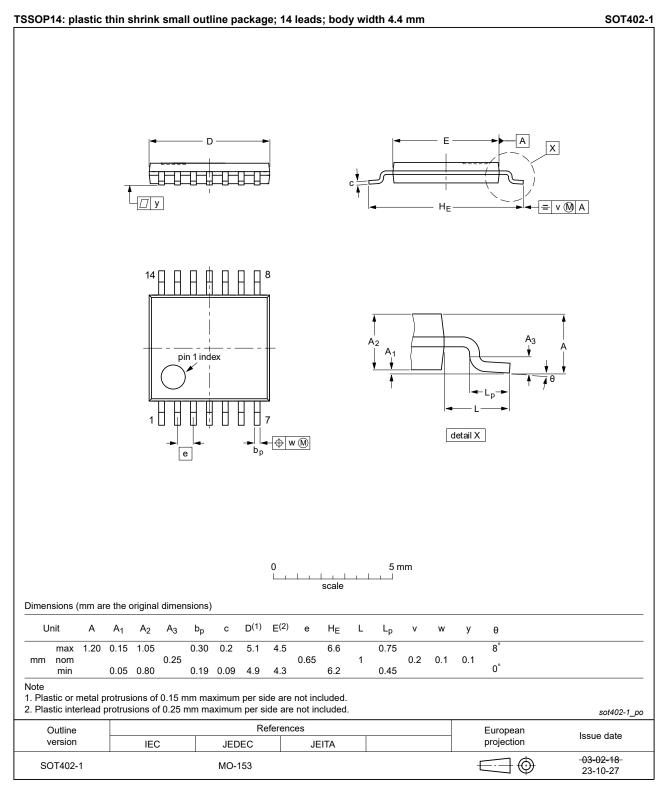


Fig. 12. Package outline SOT402-1 (TSSOP14)

74AHC132-Q100; 74AHCT132-Q100

Quad 2-input NAND Schmitt trigger

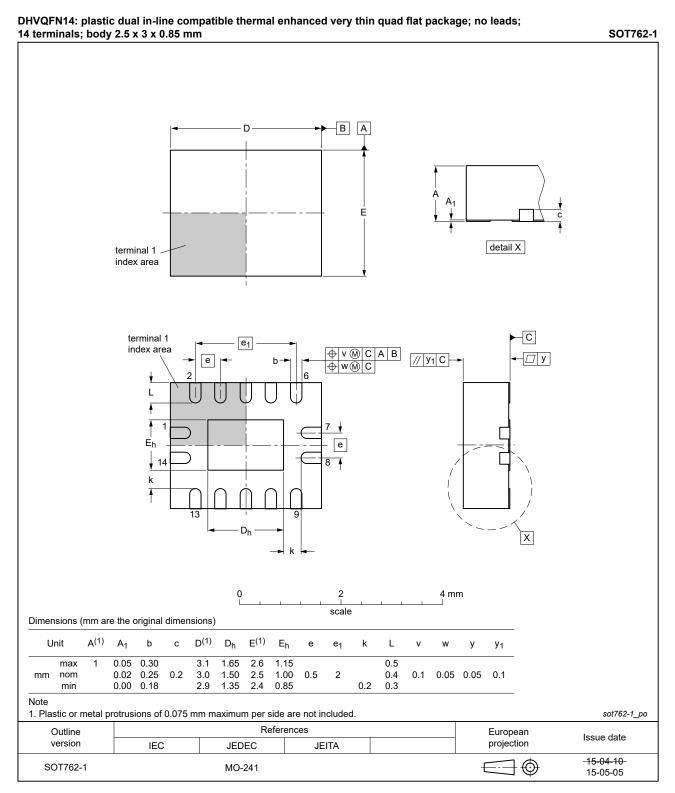


Fig. 13. Package outline SOT762-1 (DHVQFN14)

14. Abbreviations

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

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT132_Q100 v.4	20240229	Product data sheet	-	74AHC_AHCT132_Q100 v.3
Modifications:	• <u>Fig. 11, Fig. 12</u> : <i>A</i> and MO-153.	Aligned SO and TSSC	P package outline dra	awings to JEDEC MS-012
74AHC_AHCT132_Q100 v.3	20230904	Product data sheet	-	74AHC_AHCT132_Q100 v.2
Modifications:	• <u>Section 2</u> : ESD s	pecification updated a	according to the latest	JEDEC standard.
74AHC_AHCT132_Q100 v.2	20200703	Product data sheet	-	74AHC_AHCT132_Q100 v.1
Modifications:	of Nexperia. • Legal texts have • <u>Section 1</u> and <u>Se</u> • <u>Table 4</u> : Derating	been adapted to the r action 2 updated.	new company name w ower dissipation upda	
74AHC_AHCT132_Q100 v.1	20090504	Product data sheet	-	-

74AHC132-Q100; 74AHCT132-Q100

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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