## 1. General description

The 74AHC14-Q100; 74AHCT14-Q100 is a hex inverter 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
- · Balanced propagation delays
- · Input levels:
  - For 74AHC14-Q100: CMOS level
  - For 74AHCT14-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

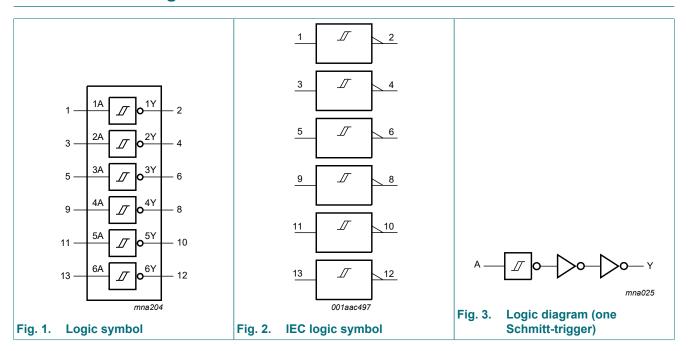
# 3. Ordering information

**Table 1. Ordering information** 

Type number	Package								
	Temperature range	Name	Description	Version					
74AHC14D-Q100 74AHCT14D-Q100	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1					
74AHC14PW-Q100 74AHCT14PW-Q100	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1					
74AHC14BQ-Q100 74AHCT14BQ-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	SOT762-1					

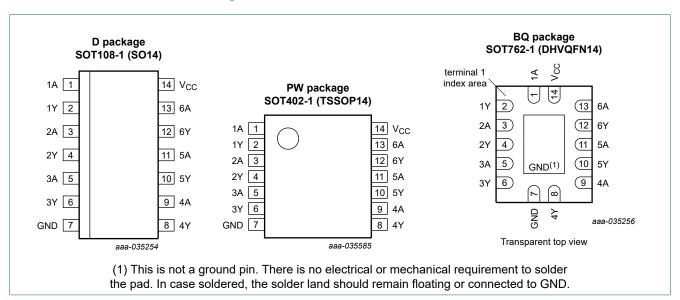


## 4. Functional diagram



## 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 <sub>CC</sub>	14	supply voltage

## 6. Functional description

#### **Table 3. Function table**

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

Input	Output
nA	nY
L	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	Max	Unit
V <sub>CC</sub>	supply voltage		-0.5	+7.0	V
VI	input voltage		-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	$V_1 < -0.5 \text{ V}$ [1]	-20	-	mA
I <sub>OK</sub>	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1]	-20	+20	mA
Io	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-25	+25	mA
I <sub>CC</sub>	supply current		-	+75	mA
$I_{GND}$	ground current		-75	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C [2]	-	500	mW

<sup>[1]</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

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<sup>[2]</sup> For SOT108-1 (SO14) package: P<sub>tot</sub> derates linearly with 10.1 mW/K above 100 °C. For SOT402-1 (TSSOP14) package: P<sub>tot</sub> derates linearly with 7.3 mW/K above 81 °C. For SOT762-1 (DHVQFN14) package: P<sub>tot</sub> 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	74AHC14-Q100			74A	Unit		
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	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 <sub>CC</sub>	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C

## 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	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHC1	4-Q100		'					<u>'</u>	<u>'</u>	
V <sub>OH</sub>	HIGH-level	$V_I = V_{T+}$ or $V_{T-}$								
	output voltage	I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		I <sub>O</sub> = -8.0 mA; V <sub>CC</sub> = 4.5 V	3.94	-	-	3.80	-	3.70	-	V
02	LOW-level	$V_I = V_{T+}$ or $V_{T-}$								
	output voltage	I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		I <sub>O</sub> = 8.0 mA; V <sub>CC</sub> = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μΑ
Cı	input capacitance		-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHCT	14-Q100									•
V <sub>OH</sub>	HIGH-level	$V_I = V_{T+}$ or $V_{T-}$								
	output voltage	I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -8.0 mA; V <sub>CC</sub> = 4.5 V	3.94	-	-	3.80	-	3.70	-	V
OL	LOW-level	$V_I = V_{T+}$ or $V_{T-}$								
	output voltage	I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 8.0 mA; V <sub>CC</sub> = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μΑ
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}$ ; other pins at $V_{CC}$ or GND; $I_O = 0 \text{ A}$ ; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
Cı	input capacitance		-	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 1	to +85 °C	-40 °C t	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC14	4-Q100									
t <sub>pd</sub>		nA to nY; see Fig. 4 [2]								
delay	V <sub>CC</sub> = 3.0 V to 3.6 V									
		C <sub>L</sub> = 15 pF	-	4.3	12.8	1.0	15.0	1.0	16.0	ns
		C <sub>L</sub> = 50 pF	-	5.8	16.3	1.0	18.0	1.0	20.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V								
		C <sub>L</sub> = 15 pF	-	3.2	8.6	1.0	10.0	1.0	11.0	ns
		C <sub>L</sub> = 50 pF	-	4.2	10.6	1.0	12.0	1.0	13.5	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [3]	-	10	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHCT	14-Q100					'				
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 4 [2]								
		V <sub>CC</sub> = 4.5 V to 5.5 V								
		C <sub>L</sub> = 15 pF	-	4.0	7.0	1.0	8.0	1.0	9.0	ns
		C <sub>L</sub> = 50 pF	-	5.4	8.0	1.0	9.0	1.0	10.0	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i = 1 \text{ MHz}; V_i = \text{GND to } V_{CC}$ [3]	-	12	-	-	-	-	-	pF

- [1] Typical values are measured at nominal supply voltage ( $V_{CC}$  = 3.3 V and  $V_{CC}$  = 5.0 V).
- $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

f<sub>i</sub> = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

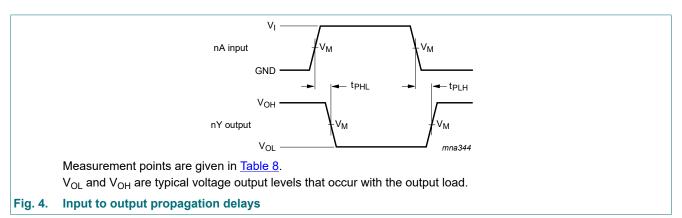
C<sub>L</sub> = output load capacitance in pF;

V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

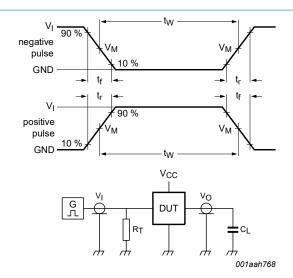
### 10.1. Waveforms and test circuit



**Table 8. Measurement points** 

Туре	Input	Output		
	V <sub>M</sub>	V <sub>M</sub>		
74AHC14-Q100	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>		
74AHCT14-Q100	1.5 V	0.5 × V <sub>CC</sub>		

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Test data is given in Table 9.

Definitions test circuit:

 $R_T$  = Termination resistance should be equal to output impedance  $Z_o$  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 I		Load	Test
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	
74AHC14-Q100	V <sub>CC</sub>	≤ 3.0 ns	50 pF, 15 pF	t <sub>PLH</sub> , t <sub>PHL</sub>
74AHCT14-Q100	3.0 V	≤ 3.0 ns	50 pF, 15 pF	t <sub>PLH</sub> , t <sub>PHL</sub>

#### 10.2. Transfer characteristics

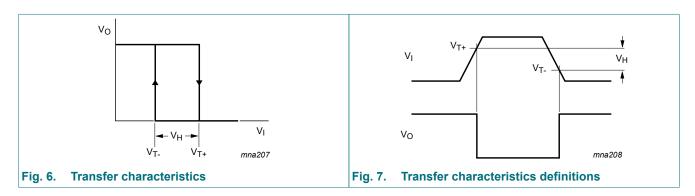
**Table 10. Transfer characteristics** 

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); see Fig. 6 and Fig. 7.

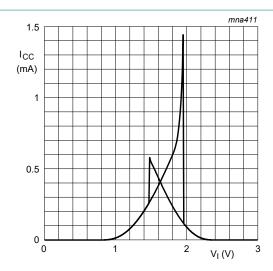
Symbol	Parameter	Conditions		25 °C		-40 °C 1	o +85 °C	-40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHC14-Q100										
V <sub>T+</sub> positive-going threshold voltage		V <sub>CC</sub> = 3.0 V	-	-	2.2	-	2.2	-	2.2	V
	V <sub>CC</sub> = 4.5 V	-	-	3.15	-	3.15	-	3.15	V	
	voitage	V <sub>CC</sub> = 5.5 V	-	-	3.85	-	3.85	-	3.85	V
V <sub>T-</sub>	negative-going	V <sub>CC</sub> = 3.0 V	0.9	-	-	0.9	-	0.9	-	V
	threshold voltage	V <sub>CC</sub> = 4.5 V	1.35	-	-	1.35	-	1.35	-	V
	Voltage	V <sub>CC</sub> = 5.5 V	1.65	-	-	1.65	-	1.65	-	V
V <sub>H</sub>	hysteresis	V <sub>CC</sub> = 3.0 V	0.3	-	1.2	0.3	1.2	0.25	1.2	V
	voltage	V <sub>CC</sub> = 4.5 V	0.4	-	1.4	0.4	1.4	0.35	1.4	V
		V <sub>CC</sub> = 5.5 V	0.5	-	1.6	0.5	1.6	0.45	1.6	V

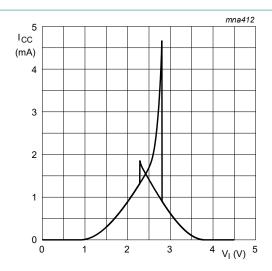
Symbol	Parameter	Conditions		25 °C		-40 °C 1	to +85 °C	-40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHCT	14-Q100									
V <sub>T+</sub>	positive-going	V <sub>CC</sub> = 4.5 V	-	-	1.9	-	1.9	-	1.9	V
	threshold voltage	V <sub>CC</sub> = 5.5 V	-	-	2.1	-	2.1	-	2.1	V
V <sub>T-</sub>	negative-going	V <sub>CC</sub> = 4.5 V	0.5	-	-	0.5	-	0.5	-	V
	threshold voltage	V <sub>CC</sub> = 5.5 V	0.6	-	-	0.6	-	0.6	-	V
V <sub>H</sub>	hysteresis	V <sub>CC</sub> = 4.5 V	0.4	-	1.4	0.4	1.4	0.35	1.4	V
	voltage	V <sub>CC</sub> = 5.5 V	0.4	-	1.5	0.4	1.5	0.35	1.5	V

## 10.3. Transfer characteristics waveforms



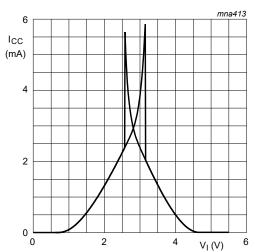
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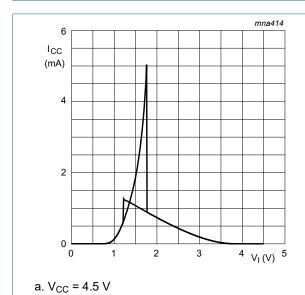
a.  $V_{CC} = 3.0 \text{ V}$ 

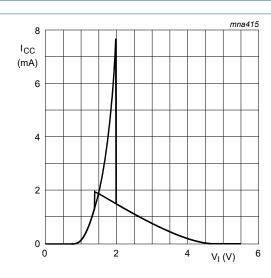




c.  $V_{CC}$  = 5.5 V

Fig. 8. Typical 74AHC14-Q100 transfer characteristics





b.  $V_{CC} = 5.5 \text{ V}$ 

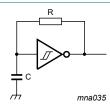
Fig. 9. Typical 74AHCT14-Q100 transfer characteristics

74AHC\_AHCT14\_Q100

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# 11. Application information



For 74AHC14-Q100:  $f = \frac{1}{T} \approx \frac{1}{0.55 \times RC}$ 

For 74AHCT14-Q100:  $f = \frac{1}{T} \approx \frac{1}{0.60 \times RC}$ 

Fig. 10. Relaxation oscillator

## 12. Package outline

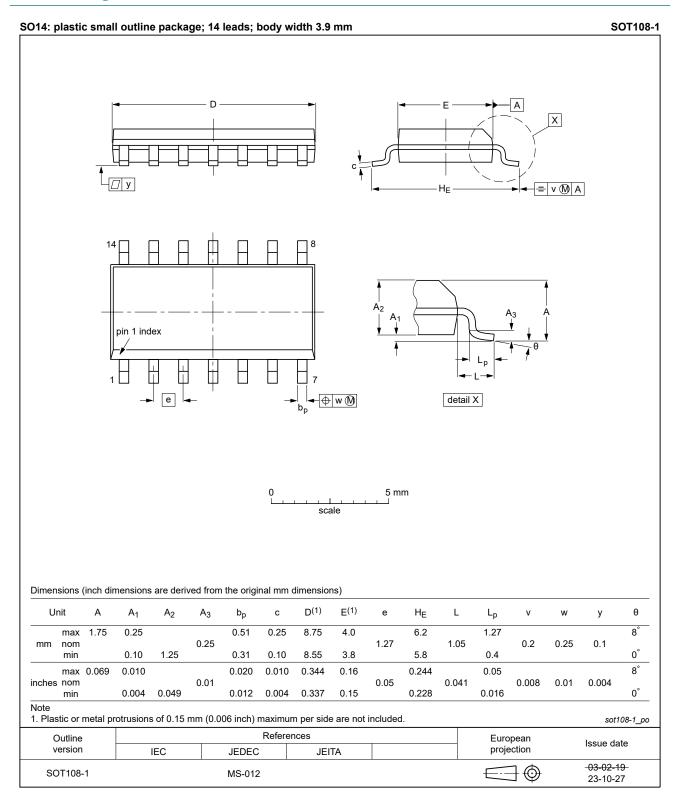


Fig. 11. Package outline SOT108-1 (SO14)

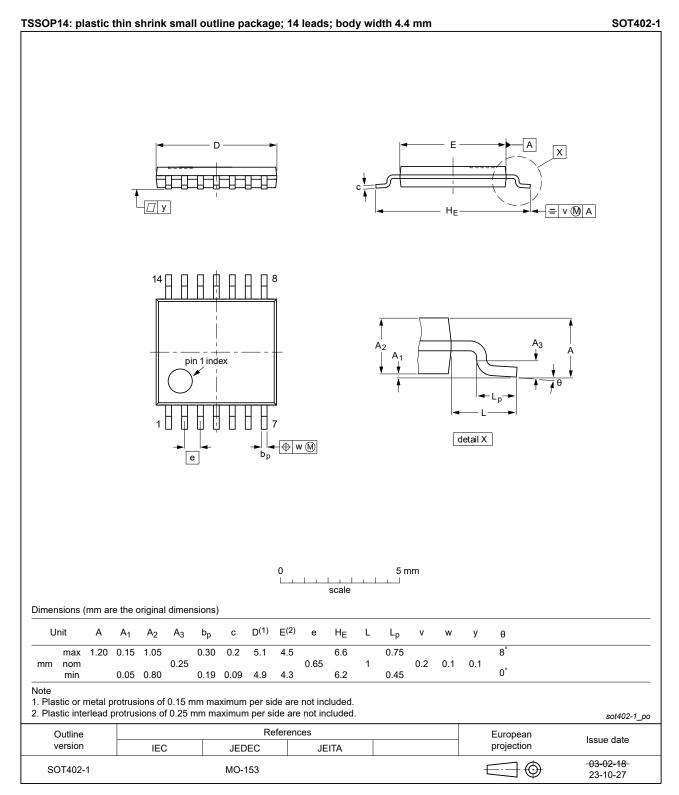


Fig. 12. Package outline SOT402-1 (TSSOP14)

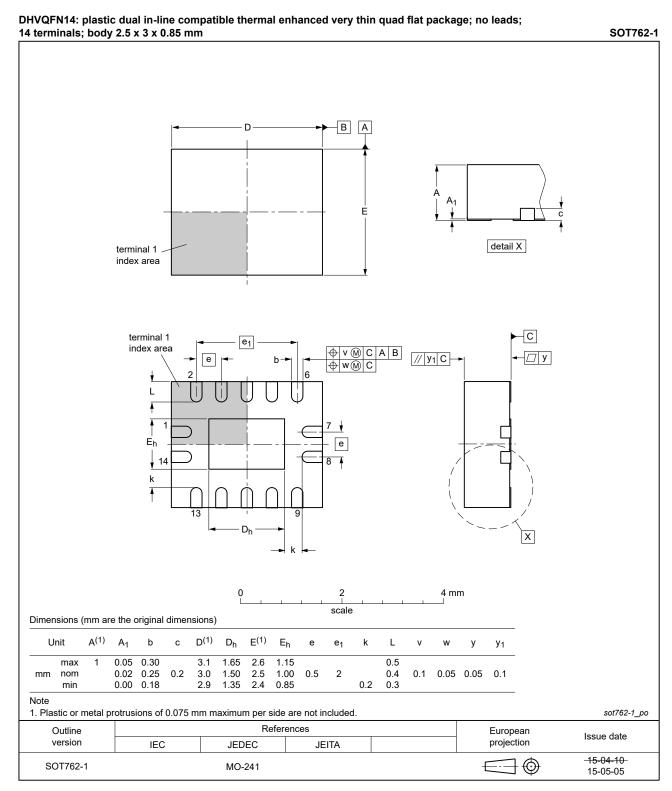


Fig. 13. Package outline SOT762-1 (DHVQFN14)

## 13. Abbreviations

#### **Table 11. Abbreviations**

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

# 14. Revision history

### **Table 12. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT14_Q100 v.4	20240410	Product data sheet	-	74AHC_AHCT14_Q100 v.3
Modifications:	• Fig. 11, Fig. and MO-153	•	P package outline	e drawings to JEDEC MS-012
74AHC_AHCT14_Q100 v.3	20230905	Product data sheet	-	74AHC_AHCT14_Q100 v.2
Modifications:	Section 2: E	SD specification updated a	according to the la	itest JEDEC standard.
74AHC_AHCT14_Q100 v.2	20200616	Product data sheet	-	74AHC_AHCT14_Q100 v.1
Modifications:	guidelines o Legal texts I Section 1 ar Table 4: Der	of this data sheet has been f Nexperia. have been adapted to the r and Section 2 updated. rating values for P <sub>tot</sub> total p tline drawing of SOT762-1	new company nan	ne where appropriate.
74AHC_AHCT14_Q100 v.1	20120709	Product data sheet	-	-

## 15. 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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