74AHC126-Q100; 74AHCT126-Q100

Quad buffer/line driver; 3-state

Rev. 3 — 30 August 2023

Product data sheet

1. General description

The 74AHC126-Q100; 74AHCT126-Q100 is a quad buffer/line driver with 3-state outputs controlled by the output enable inputs (nOE). A LOW on nOE causes the outputs to assume a high-impedance OFF-state. 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
- · Balanced propagation delays
- All inputs have Schmitt-trigger action
- Inputs accept voltages higher than V_{CC}
- · Input levels:
 - For 74AHC126-Q100: CMOS level
 - For 74AHCT126-Q100: TTL level
- 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

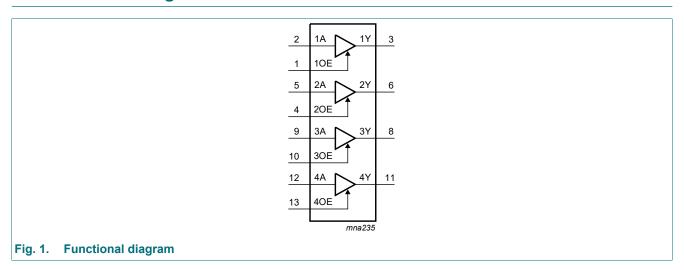
3. Ordering information

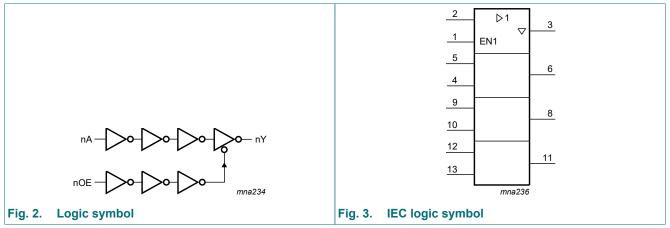
Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74AHC126D-Q100 74AHCT126D-Q100	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74AHC126PW-Q100 74AHCT126PW-Q100	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1
74AHC126BQ-Q100 74AHCT126BQ-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



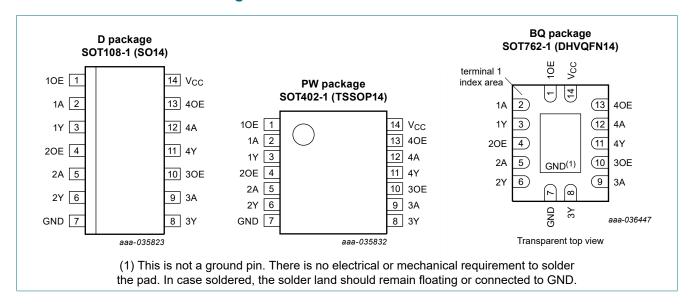
4. Functional diagram





5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
10E	1	output enable input 1 (active HIGH)
1A	2	data input 1
1Y	3	data output 1
20E	4	output enable input 2 (active HIGH)
2A	5	data input 2
2Y	6	data output 2
GND	7	ground (0 V)
3Y	8	data output 3
3A	9	data input 3
30E	10	output enable input 3 (active HIGH)
4Y	11	data output 4
4A	12	data input 4
40E	13	output enable input 4 (active HIGH)
V _{CC}	14	supply voltage

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6. Functional description

Table 3. Function table

H = HIGH voltage state; L = LOW voltage state; X = don't care; Z = high-impedance OFF-state.

	Input	Output
nOE	nA	nY
Н	L	L
Н	Н	Н
L	X	Z

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 _{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 _{OK}	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 _{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.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74A	HC126-0	2100	74Al	Unit		
			Min	Тур	Max	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} = 3.0 V to 3.6 V	-	-	100	-	-	-	ns/V
	fall rate $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		-	-	20	-	-	20	ns/V

^[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.

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 t	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
74AHC1	26-Q100									
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V _{CC} = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V _{IL}	LOW-level	V _{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V _{CC} = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V _{OH}										
output voltage		I _O = -50 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I _O = -50 μA; V _{CC} = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I _O = -50 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		$I_O = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.80	-	3.70	-	V
V _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}								
		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
		$I_O = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	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	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.25	-	±2.5	-	±10.0	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μA
C _I	input capacitance	V _I = V _{CC} or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHCT	126-Q100									
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	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	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	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 ₁	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.25	-	±2.5	-	±10.0	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μΑ
ΔI _{CC}	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	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. 6.

Symbol	Parameter	Conditions		25 °C		-40 °C 1	to +85 °C	-40 °C t	Unit	
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC1	26-Q100									
t _{pd}	propagation	nA to nY; see Fig. 4 [2]								
d	delay	V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	4.7	8.0	1.0	9.5	1.0	10.0	ns
		C _L = 50 pF	-	6.7	11.5	1.0	13.0	1.0	14.5	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	3.3	5.5	1.0	6.5	1.0	7.0	ns
		C _L = 50 pF	-	4.7	7.5	1.0	8.5	1.0	9.5	ns

Symbol	Parameter	Conditions			25 °C		-40 °C	to +85 °C	-40 °C t	Unit	
				Min	Typ[1]	Max	Min	Max	Min	Max	
t _{en}	enable time	nOE to nY; see Fig. 5	[3]								
		V _{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	5.3	8.0	1.0	9.5	1.0	10.0	ns
		C _L = 50 pF		-	7.6	11.5	1.0	13.0	1.0	14.5	ns
		V _{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.6	5.3	1.0	6.1	1.0	7.0	ns
		C _L = 50 pF		-	5.1	7.6	1.0	8.7	1.0	9.5	ns
t _{dis}	disable time	nOE to nY; see Fig. 5	[4]								
		V _{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	6.6	9.7	1.0	11.5	1.0	12.5	ns
		C _L = 50 pF		-	9.4	13.2	1.0	15.0	1.0	16.5	ns
		V _{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	4.7	6.8	1.0	8.0	1.0	8.5	ns
		C _L = 50 pF		-	6.7	8.8	1.0	10.0	1.0	11.0	ns
C _{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz};$ [5] $V_i = \text{GND to } V_{CC}$		-	10	-	-	-	-	-	pF
74AHCT	126-Q100			'						'	
t _{pd}	propagation	nA to nY; see Fig. 4	[2]								
	delay	V _{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.0	5.5	1.0	6.5	1.0	7.0	ns
		C _L = 50 pF		-	4.3	7.5	1.0	8.5	1.0	9.5	ns
t _{en}	enable time	nOE to nY; see Fig. 5	[3]								
		V _{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.3	5.1	1.0	6.0	1.0	6.5	ns
		C _L = 50 pF		-	4.7	7.1	1.0	8.0	1.0	9.0	ns
t _{dis}	disable time	nOE to nY; see Fig. 5	[4]								
		V _{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	4.8	6.8	1.0	8.0	1.0	8.5	ns
		C _L = 50 pF		-	6.9	8.9	1.0	10.0	1.0	11.5	ns
C _{PD}	power dissipation capacitance	$C_L = 50 \text{ pF}$ $f_i = 1 \text{ MHz};$ [5] $V_I = \text{GND to V}_{CC}$		-	12	-	-	-	-	-	pF

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

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;

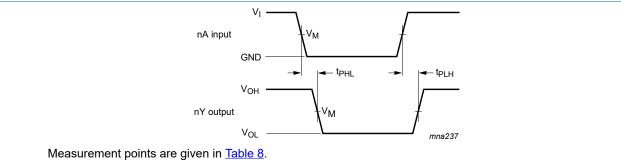
 $\Sigma(C_L \times V_{CC}^2 \times f_o) = \text{sum of the outputs.}$

t_{pd} is the same as t_{PLH} and t_{PHL}.

^[3] [4] t_{en} is the same as t_{PZL} and t_{PZH} . t_{dis} is the same as t_{PLZ} and t_{PHZ} .

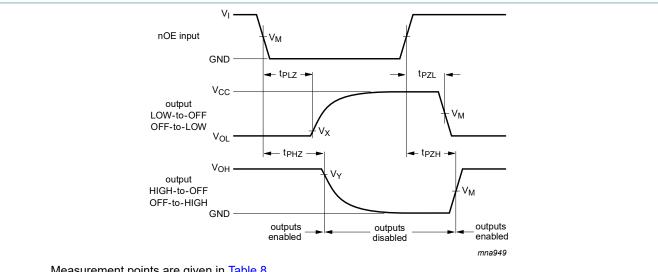
^[5] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

10.1. Waveforms and test circuit



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

Fig. 4. Input to output propagation delays



Measurement points are given in Table 8.

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

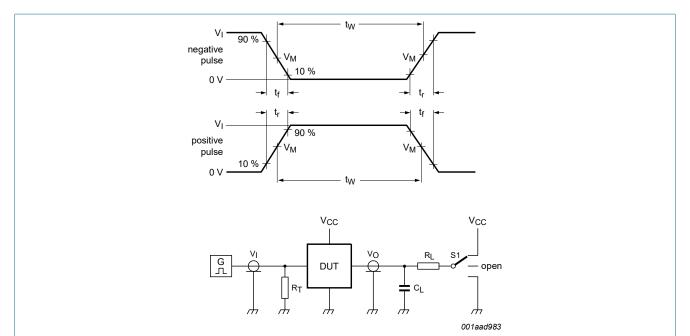
Enable and disable times Fig. 5.

Table 8. Measurement points

Туре	Input	Output					
	V _M	V _M	V _X	V _Y			
74AHC126-Q100	0.5 x V _{CC}	0.5 x V _{CC}	V _{OL} + 0.3 V	V _{OH} - 0.3 V			
74AHCT126-Q100	1.5 V	0.5 x V _{CC}	V _{OL} + 0.3 V	V _{OH} - 0.3 V			

Product data sheet

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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.

 $\ensuremath{\text{C}_{\text{L}}}$ = load capacitance including jig and probe capacitance.

R_L = load resistance.

S1 = test selection switch.

Fig. 6. Test circuit for measuring switching times

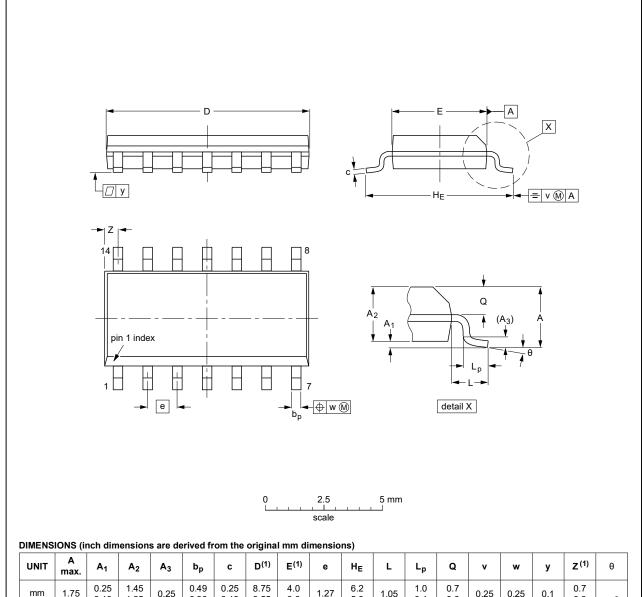
Table 9. Test data

Туре	Input		Load		S1 position				
			CL	R _L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}		
74AHC126-Q100	V _{CC}	≤ 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}		
74AHCT126-Q100	3.0 V	V ≤ 3.0 ns		15 pF, 50 pF 1 kΩ		GND	V _{CC}		

11. 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	b _p	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°

Note

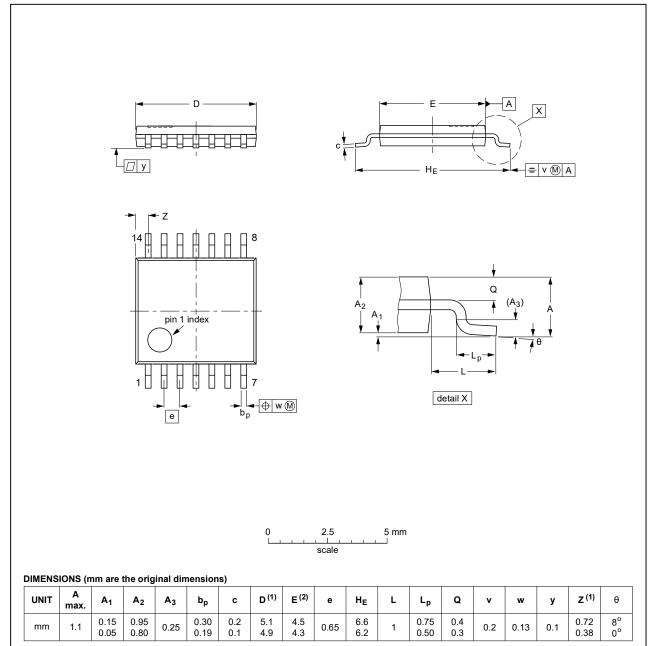
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

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

Fig. 7. Package outline SOT108-1 (SO14)

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. 8. Package outline SOT402-1 (TSSOP14)

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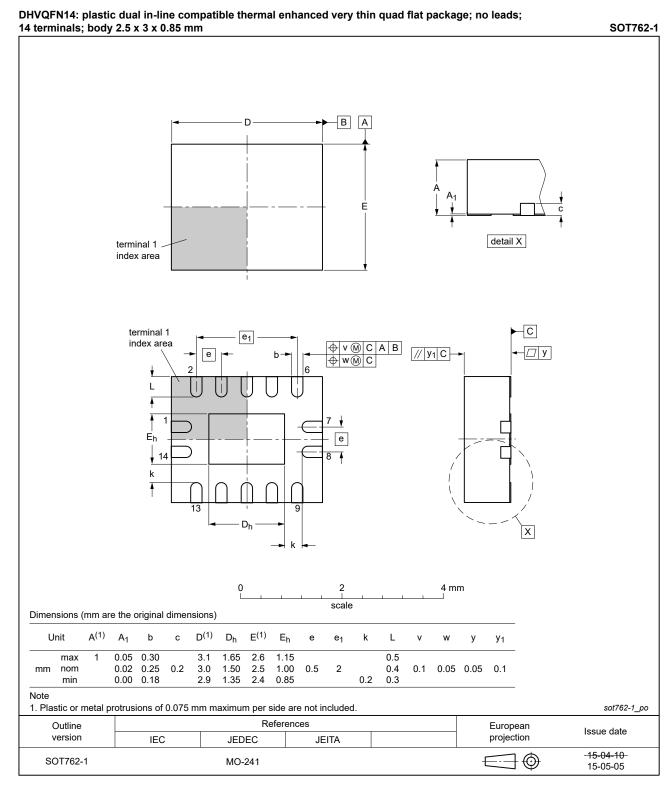


Fig. 9. Package outline SOT762-1 (DHVQFN14)

12. Abbreviations

Table 10. Abbreviations

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

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AHC_AHCT126_Q100 v.3	20230830	Product data sheet	-	74AHC_AHCT126_Q100 v.2	
Modifications:	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74AHC_AHCT126_Q100 v.2	20200428	Product data sheet	-	74AHC_AHCT126_Q100 v.1	
Modifications:	guidelines o Legal texts I Section 1: u Section 2 up Table 4: Der Table 6: Cor	nave been adapted to the rpdated.	new company nan	ne where appropriate.	
74AHC_AHCT126_Q100 v.1	20120710	Product data sheet	-	-	

14. 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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