74AHC125-Q100; 74AHCT125-Q100

Quad buffer/line driver; 3-state

Rev. 2 — 12 June 2020

Product data sheet

1. General description

The 74AHC125-Q100; 74AHCT125-Q100 is a quad buffer/line driver with 3-state outputs controlled by the output enable inputs (nOE). A HIGH 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
- 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
- · All inputs have a Schmitt-trigger action
- Input levels:
 - For 74AHC125-Q100: CMOS level
 - For 74AHCT125-Q100: TTL level
- ESD protection:
 - MIL-STD-883, method 3015 exceeds 2000 V
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- Multiple package options
- DHVQFN package with Side-Wettable Flanks enabling Automatic Optical Inspection (AOI) of solder joints

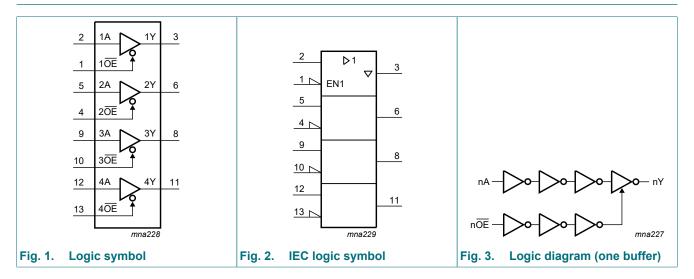
3. Ordering information

Table 1. Ordering information

Type number	Package	Package											
	Temperature range	Name	Description	Version									
74AHC125D-Q100	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads;	SOT108-1									
74AHCT125D-Q100			body width 3.9 mm										
74AHC125PW-Q100	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package;	SOT402-1									
74AHCT125PW-Q100			14 leads; body width 4.4 mm										
74AHC125BQ-Q100	-40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal	SOT762-1									
74AHCT125BQ-Q100			enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm										

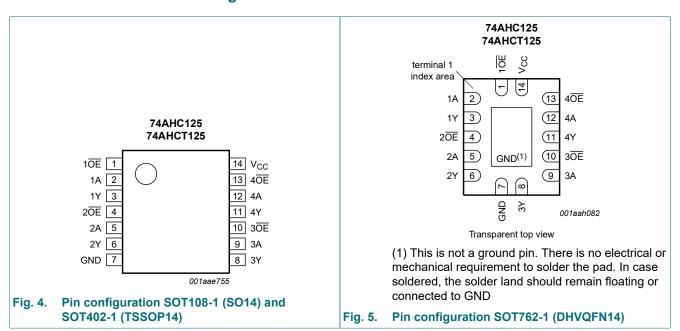


4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1 OE , 2 OE , 3 OE , 4 OE	1, 4, 10, 13	output enable input (active LOW)
1A, 2A, 3A, 4A	2, 5, 9, 12	data input
1Y, 2Y, 3Y, 4Y	3, 6, 8, 11	data output
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; X = don't care; Z = high-impedance OFF-state.

	Input	Output
nŌĒ	nA	nY
L	L	L
	Н	Н
Н	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 V or V_{O} > V_{CC} + 0.5 V	[1]	-	±20	mA
Io	output current	$V_O = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$		-	±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 °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	HC125-C	100	74AI	Q100	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	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	-	-	100	-	-	-	ns/V
	fall rate $V_{CC} = 5.0 \text{ V} \pm 0.5 \text{ V}$		-	-	20	-	-	20	ns/V

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	Unit	
			Min	Тур	Max	Min	Max	Min	Max	1
74AHC1	25-Q100		'	'	'			<u>'</u>	-	'
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}	HIGH-level	V _I = V _{IH} or V _{IL}								
	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 mA; V_{CC} = 4.5 V	3.94	-	-	3.8	-	3.70	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}								
	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
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	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 _{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
l _l	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
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

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
C _I	input capacitance		-	3.0	10	-	10	-	10	pF
Co	output capacitance		-	4.0	-	-	-	-	-	pF
74AHCT	125-Q100			<u> </u>			•		•	,
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	-	-	3.8	-	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
I _{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
l _l	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
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
ΔI _{CC}	additional supply current	per input pin; $V_1 = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A};$ other pins at V_{CC} or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
C _I	input capacitance		-	3.0	10	-	10	-	10	pF
Co	output capacitance		-	4.0	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; For test circuit see Fig. 8.

Symbol	Parameter	Conditions		25 °C		-40 °C 1	to +85 °C	-40 °C t	Unit	
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC1	25-Q100									
t _{pd}	propagation	nA to nY; see Fig. 6 [2]								
	delay	V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	4.4	8.0	1.0	9.5	1.0	11.5	ns
		C _L = 50 pF	-	6.2	11.5	1.0	13.0	1.0	14.5	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	3.0	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. 7 [2]								
		V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	4.7	8.0	1.0	9.5	1.0	11.5	ns
		C _L = 50 pF	-	6.8	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	5.1	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. 7 [2]								
		V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	6.7	9.7	1.0	11.5	1.0	12.5	ns
		C _L = 50 pF	-	9.6	13.2	1.0	15.0	1.0	16.5	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	4.8	6.8	1.0	8.0	1.0	8.5	ns
		C _L = 50 pF	-	6.8	8.8	1.0	10.0	1.0	11.0	ns
C _{PD}	power dissipation capacitance	C_L = 50 pF; f_i = 1 MHz; [3] V_I = GND to V_{CC}	-	10	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C t	Unit	
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHCT	125-Q100		'	'						<u>'</u>
t _{pd}	propagation	nA to nY; see Fig. 6 [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. 7 [2]								
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	3.4	5.1	1.0	6.0	1.0	6.5	ns
		C _L = 50 pF	-	4.9	7.3	1.0	8.3	1.0	9.5	ns
t _{dis}	disable time	nOE to nY; see Fig. 7 [2]								
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	4.5	6.8	1.0	8.0	1.0	8.5	ns
		C _L = 50 pF	-	6.5	8.8	1.0	10.0	1.0	11.0	ns
C _{PD}	power dissipation capacitance	C_L = 50 pF; f_i = 1 MHz; [3] V_I = GND to V_{CC}	-	12	-	-	-	-	-	pF

- 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}.

 t_{en} is the same as t_{PZL} and t_{PZH} .

 t_{dis} is the same as t_{PLZ} and t_{PHZ} .

 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

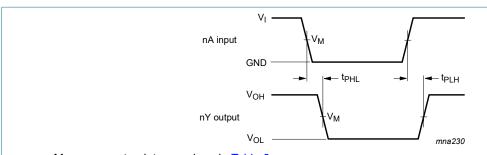
C_I = output load capacitance in pF

V_{CC} = supply voltage in Volts

N = number of inputs switching

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

10.1. 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.

Propagation delay input (nA) to output (nY) Fig. 6.

7 / 15

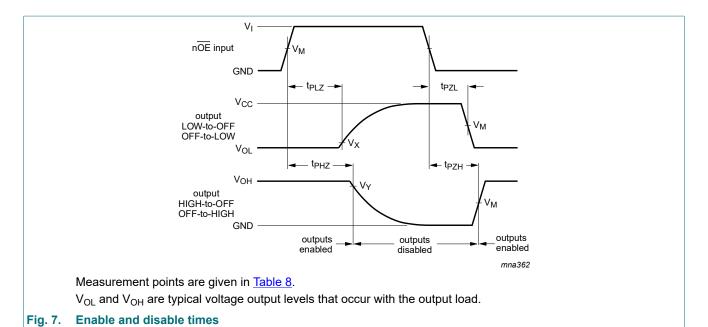
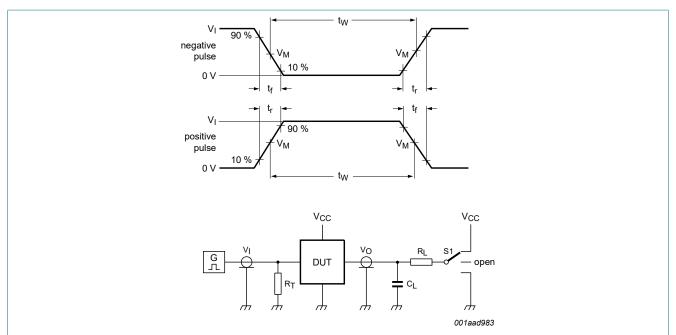


Table 8. Measurement points

Table 0. Weasuremen	it points										
Туре	Input	Output	Output								
	V _M	V _M	V _X	V _Y							
74AHC125-Q100	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OL} - 0.3 V							
74AHCT125-Q100	1.5 V	0.5V _{CC}	V _{OL} + 0.3 V	V _{OI} - 0.3 V							

8 / 15



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.

R_L = Load resistance.

S1 = Test selection switch.

Fig. 8. Test circuit for measuring switching times

Table 9. Test data

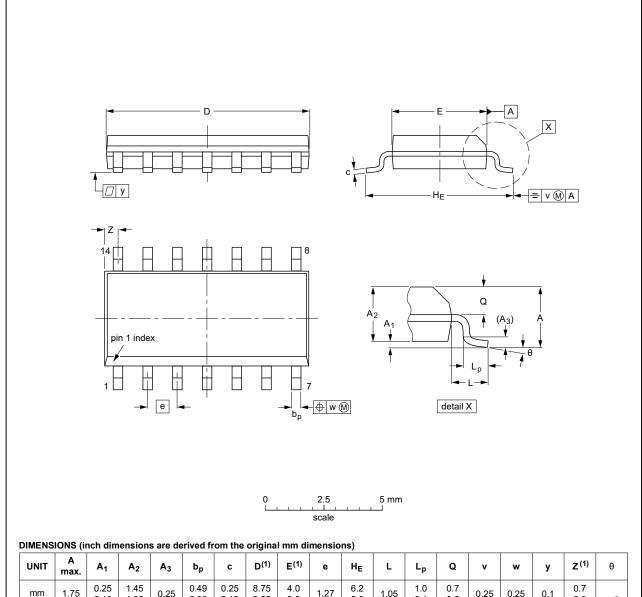
Туре	Input		Load		S1 position				
	V _I	t _r , t _f	C _L		t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}		
74AHC125-Q100	V _{CC}	≤ 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}		
74AHCT125-Q100	3.0 V ≤ 3.0 ns 1		15 pF, 50 pF		open	GND	V _{CC}		

9 / 15

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	bp	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°
ir	nches	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

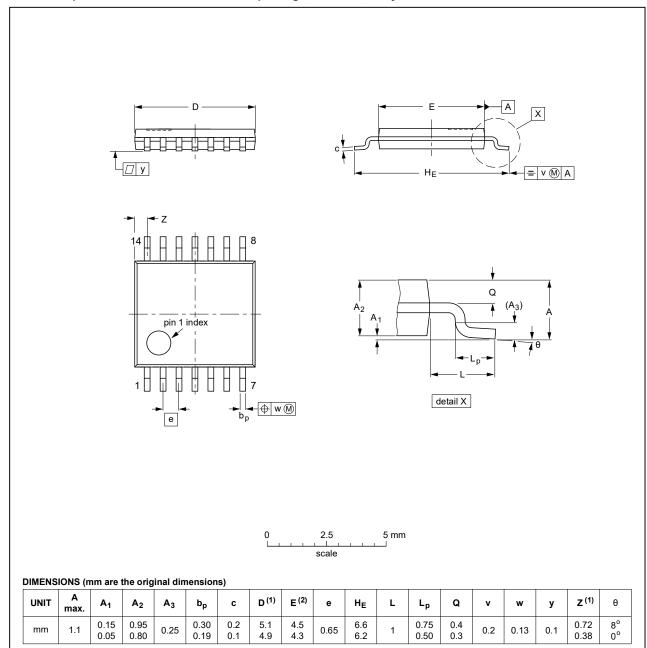
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

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

Fig. 9. 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. 10. Package outline SOT402-1 (TSSOP14)

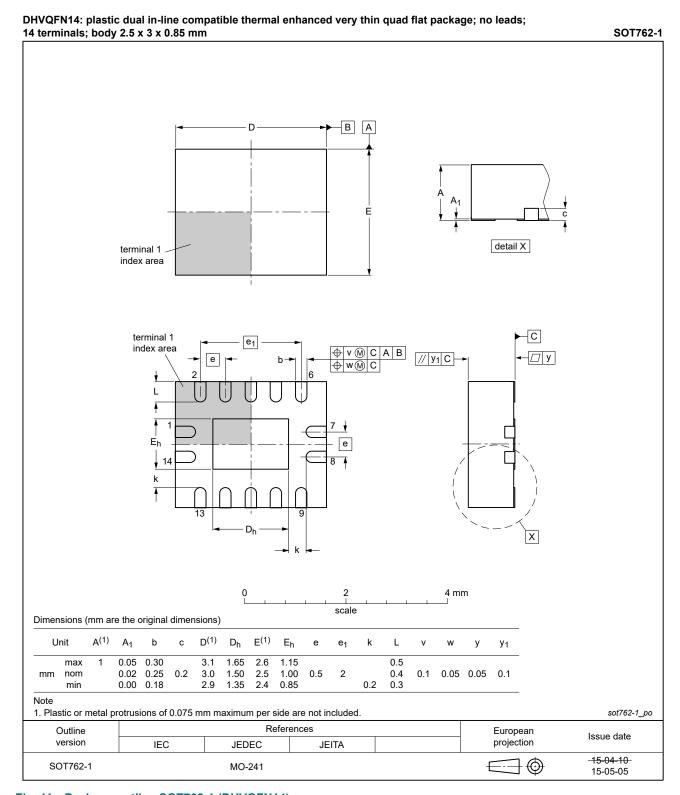


Fig. 11. Package outline SOT762-1 (DHVQFN14)

12. Abbreviations

Table 10. Abbreviations

Acronym	Description
CMOS	Complementary Metal Oxide Semiconductor
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MIL	Military
MM	Machine Model
TTL	Transistor-Transistor Logic

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74AHC_AHCT125_Q100 v.2	20200612	Product data sheet	-	74AHC_AHCT125_Q100 v.1		
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. Section 1 and Section 2 updated. Table 4: Derating values for P_{tot} total power dissipation have been updated. 					
	 <u>Table 6</u>: Conditions for I_{OZ} corrected. Package outline drawing of SOT762-1 (<u>Fig. 11</u>) updated. 					
74AHC_AHCT125_Q100 v.1	20120605	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.
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Contents

1. General description	1
2. Features and benefits	1
3. Ordering information	1
4. Functional diagram	2
5. Pinning information	2
5.1. Pinning	2
5.2. Pin description	3
6. Functional description	3
7. Limiting values	3
8. Recommended operating conditions	4
9. Static characteristics	
10. Dynamic characteristics	6
10.1. Waveforms and test circuit	7
11. Package outline	10
12. Abbreviations	13
13. Revision history	13
14. Legal information	

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