74LVC125A

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

Rev. 9 — 17 September 2021

Product data sheet

1. General description

The 74LVC125A 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 can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

2. Features and benefits

- Overvoltage tolerant inputs to 5.5 V
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- · Direct interface with TTL levels
- Complies with JEDEC standard:
 - JESD8-7A (1.65 V to 1.95 V)
 - JESD8-5A (2.3 V to 2.7 V)
 - JESD8-C/JESD36 (2.7 V to 3.6 V)
- I_{OFF} circuitry provides partial Power-down mode operation
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-B exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Ordering information

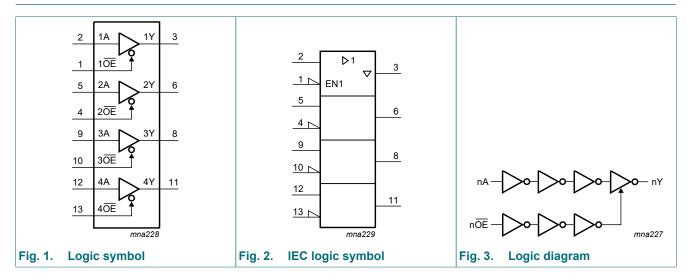
Table 1. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74LVC125AD	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1						
74LVC125APW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1						
74LVC125ABQ	-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						



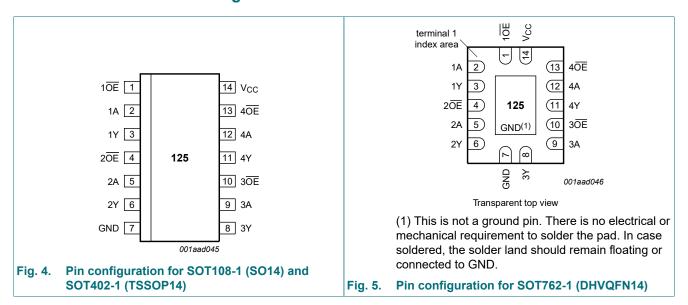
Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
10E, 20E, 30E, 40E	1, 4, 10, 13	data 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

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

6. Functional description

Table 3. Function selection

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

Inputs nOE		Output		
nŌE	nA	nY		
L	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	+6.5	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V	-	±50	mA
Vo	output voltage	output HIGH or LOW-state [2]	-0.5	V _{CC} + 0.5	V
		output 3-state [2]	-0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mA
I _{CC}	supply current		-	100	mA
I _{GND}	ground current		-100	-	mA
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$ [3]	-	500	mW
T _{stg}	storage temperature		-65	+150	°C

^[1] The minimum input voltage ratings may be exceeded if the input current ratings are observed.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	output HIGH or LOW state	0	-	V _{CC}	V
		output 3-state	0	-	5.5	V
T _{amb}	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 2.3 V to 2.7 V	0	-	20	ns/V
		V _{CC} = 2.7 V to 3.6 V	0	-	10	ns/V

^[2] The output voltage ratings may be exceeded if the output current ratings are observed.

^[3] For SOT108-1 (SO14) package: P_{tot} 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.

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9. Static characteristics

Table 6. Static characteristics

At recommended operating conditions. 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 _{IH}	HIGH-level input	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
	voltage	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	0.65V _{CC}	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V _{IL}	LOW-level input	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
	voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	-	0.35V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V _{OH}	HIGH-level	V _I = V _{IH} or V _{IL}						
	output voltage	I_O = -100 μ A; V_{CC} = 1.65 V to 3.6 V	V _{CC} - 0.2	-	-	V _{CC} - 0.3	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	-	-	1.05	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.8	-	-	1.65	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	2.2	-	-	2.05	-	V
		I_{O} = -18 mA; V_{CC} = 3.0 V	2.4	-	-	2.25	-	V
		I_{O} = -24 mA; V_{CC} = 3.0 V	2.2	-	-	2.0	-	V
V _{OL}	LOW-level	V _I = V _{IH} or V _{IL}						
	output voltage	I _O = 100 μA; V _{CC} = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.65	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.6	-	0.8	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	-	0.6	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	-	0.8	V
I _I	input leakage current	$V_{CC} = 3.6 \text{ V}; V_I = 5.5 \text{ V or GND}$	-	±0.1	±5	-	±20	μA
l _{OZ}	OFF-state output current	$V_I = V_{IH} \text{ or } V_{IL}; V_{CC} = 3.6 \text{ V}; $ $V_O = 5.5 \text{ V or GND}$	-	±0.1	±5	-	±20	μΑ
I _{OFF}	power-off leakage current	$V_{CC} = 0.0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$	-	±0.1	±10	-	±20	μΑ
I _{CC}	supply current	V_{CC} = 3.6 V; V_I = V_{CC} or GND; I_O = 0 A	-	0.1	10	-	40	μΑ
ΔI _{CC}	additional supply current	per input pin; $V_1 = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$; $V_{CC} = 2.7 \text{ V}$ to 3.6 V	-	5	500	-	5000	μΑ
Cı	input capacitance	V_{CC} = 0 V to 3.6 V; V_I = GND to V_{CC}	-	4.0	-	-	-	pF

^[1] All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 25 °C.

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 8.

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 to nY; see Fig. 6	[2]						
		V _{CC} = 1.2 V		-	12.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		1.5	5.4	11.0	1.5	12.8	ns
		V _{CC} = 2.3 V to 2.7 V		1.0	2.9	5.7	1.0	6.7	ns
		V _{CC} = 2.7 V		1.5	2.8	5.5	1.5	7.0	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	2.5	4.8	1.0	6.0	ns
t _{en}	enable time	nOE to nY; see Fig. 7	[2]						
		V _{CC} = 1.2 V		-	16.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		1.0	5.0	12.2	1.0	14.2	ns
		V _{CC} = 2.3 V to 2.7 V		0.5	2.9	6.8	0.5	7.9	ns
		V _{CC} = 2.7 V		1.5	3.1	6.6	1.5	8.5	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	2.3	5.4	1.0	7.0	ns
t _{dis}	disable time	nOE to nY; see Fig. 7	[2]						
		V _{CC} = 1.2 V		-	7.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		2.2	4.6	7.5	2.2	8.7	ns
		V _{CC} = 2.3 V to 2.7 V		0.5	2.6	4.2	0.5	5.0	ns
		V _{CC} = 2.7 V		1.5	3.1	5.0	1.5	6.5	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	3.2	4.6	1.0	6.0	ns
t _{sk(o)}	output skew time	V _{CC} = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns
C _{PD}	power dissipation	per buffer; V_I = GND to V_{CC}	[4]						
	capacitance	V _{CC} = 1.65 V to 1.95 V		-	6.0	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V		-	9.4	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V		-	12.4	-	-	-	pF

^[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.2 V, 1.8 V, 2.5 V, 2.7 V, and 3.3 V respectively.

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

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

 f_i = input frequency in MHz; f_o = output frequency in MHz

C_L = output load capacitance in pF

V_{CC} = supply voltage in Volts

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

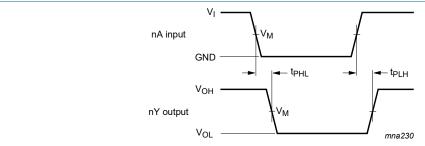
t_{pd} is the same as t_{PLH} and t_{PHL}.

Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.

 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:

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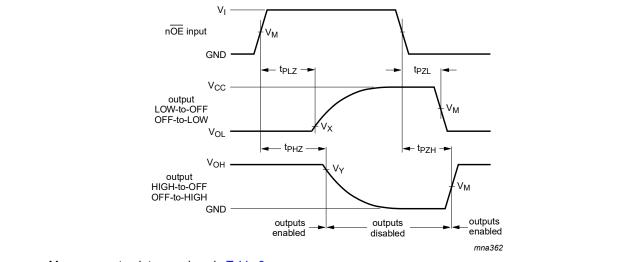
10.1. Waveforms and test circuit



Measurement points are given in <u>Table 8</u>.

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

Fig. 6. The input nA to output nY propagation delays



Measurement points are given in Table 8.

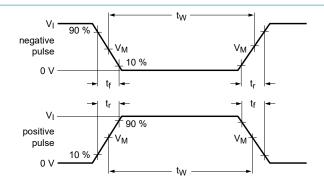
V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

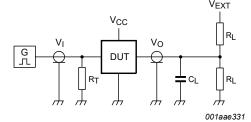
Fig. 7. 3-state enable and disable times

Table 8. Measurement points

Supply voltage	Input		Output					
V _{CC} V _I		V _M	V _M	V _X	V _Y			
1.2 V	V _{CC}	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V			
1.65 V to 1.95 V	V _{CC}	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V			
2.3 V to 2.7 V	V _{CC}	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V			
2.7 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V			
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V			

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state





Test data is given in Table 9.

Definitions for test circuit:

R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

 V_{EXT} = External voltage for measuring switching times.

Fig. 8. Test circuit for measuring switching times

Table 9. Test data

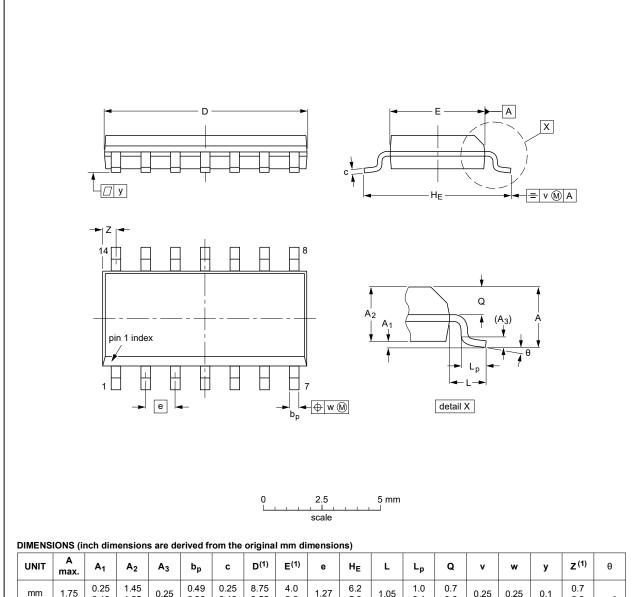
Supply voltage Input			Load		V _{EXT}			
V _{CC} V _I		t _r , t _f	CL	R_L	t _{PLH} , t _{PHL}	t _{PLZ} , t _{PZL}	t _{PHZ} , t _{PZH}	
1.2 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ	open	2 × V _{CC}	GND	
1.65 V to 1.95 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ	open	2 × V _{CC}	GND	
2.3 V to 2.7 V	V _{CC}	≤ 2 ns	30 pF	500 Ω	open	2 × V _{CC}	GND	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V _{CC}	GND	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V _{CC}	GND	

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

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°
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°

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

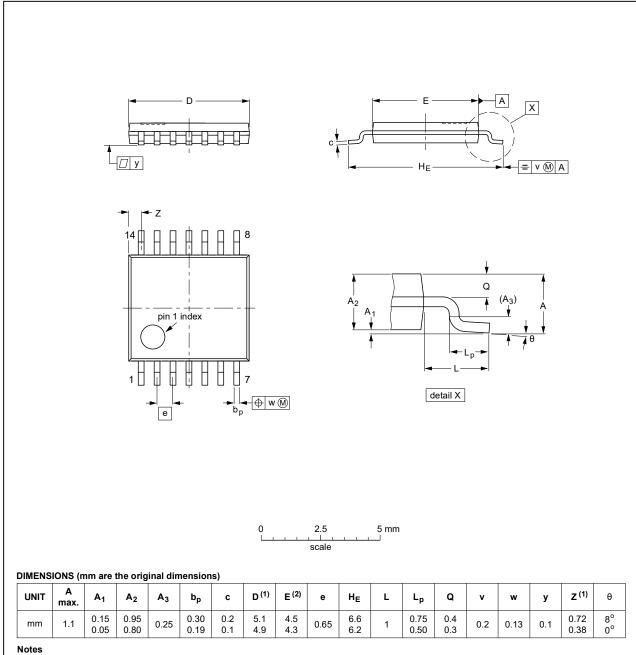
OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT108-1	076E06	MS-012				99-12-27 03-02-19

Fig. 9. Package outline SOT108-1 (SO14)

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

TSSOP14: plastic thin shrink small outline package; 14 leads; body width 4.4 mm

SOT402-1



- 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		REFER	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)

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

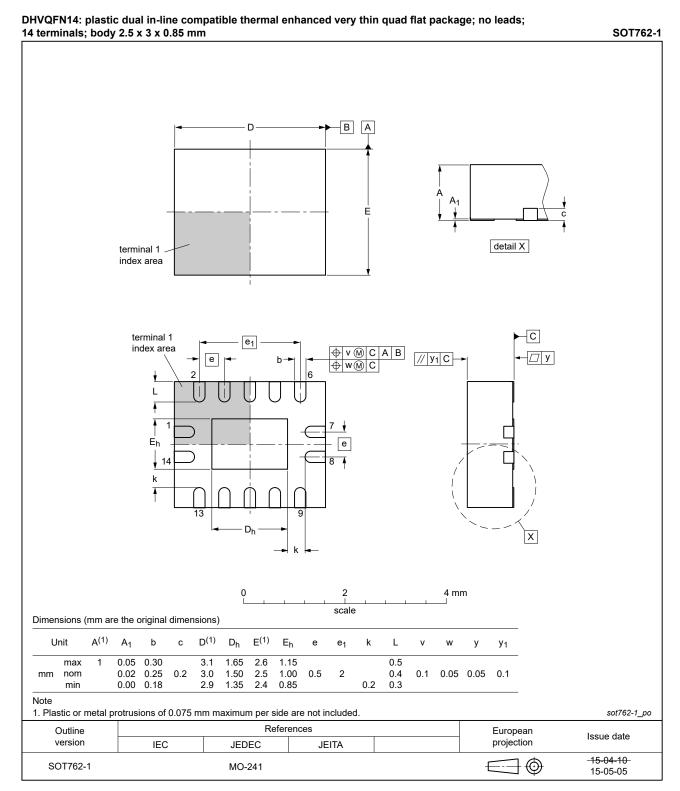


Fig. 11. Package outline SOT762-1 (DHVQFN14)

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

12. Abbreviations

Table 10. Abbreviations

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

13. Revision history

Table 11. Revision history

Release date	Data sheet status	Change notice	Supersedes
20210917	Product data sheet	-	74LVC125A v.8
1	•	7-1/SSOP14) rem	oved.
20200505	Product data sheet	-	74LVC125A v.7
 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. Table 8: Added measurement points for V_X and V_Y. Fig. 11: Package outline drawing SOT762-1 (DHVQFN14) updated. 			
20130411	Product data sheet	-	74LVC125A v.6
Features lis	t corrected (errata)		
20130305	Product data sheet	-	74LVC125A v.5
20120208	Product data sheet	-	74LVC125A v.4
20030507	Product specification	-	74LVC125A v.3
20020308	Product specification	-	74LVC125A v.2
19980428	Product specification	-	74LVC125A v.1
19970801	Product specification	_	_
	20210917 Type numbe Section 1 at 20200505 The format guidelines of Legal texts Legal texts Table 4: Det Table 8: Add Fig. 11: Pact 20130411 Features lis 20130305 20120208 20030507 20020308 19980428	 Type number 74LVC125ADB (SOT337) Section 1 and Section 2 updated. The format of this data sheet has beer guidelines of Nexperia. Legal texts have been adapted to the result of the section of the	20210917 Product data sheet - • Type number 74LVC125ADB (SOT337-1/SSOP14) reme • Section 1 and Section 2 updated. 20200505 Product data sheet - • The format of this data sheet has been redesigned to conguidelines of Nexperia. • Legal texts have been adapted to the new company name • Table 4: Derating values for Ptot total power dissipation of the new section of the new company name • Table 8: Added measurement points for Vx and Vy. • Fig. 11: Package outline drawing SOT762-1 (DHVQFN1) 20130411 Product data sheet - • Features list corrected (errata) 20130305 Product data sheet - 20120208 Product data sheet - 20020308 Product specification - 19980428 Product specification -

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

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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