# 74LVT125; 74LVTH125

3.3 V quad buffer; 3-state Rev. 8 — 18 August 2021

**Product data sheet** 

### 1. General description

The 74LVT125; 74LVTH125 is a guad 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. Bus hold data inputs eliminate the need for external pull-up resistors to define unused inputs. This device is fully specified for partial power down applications using  $I_{\text{OFF}}$ . The  $I_{\text{OFF}}$  circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

#### 2. Features and benefits

- Quad bus interface
- 3-state buffers
- Wide supply voltage range from 2.7 to 3.6 V
- BiCMOS high speed and output drive
- Output capability: +64 mA and -32 mA
- Direct interface with TTL levels
- Overvoltage tolerant inputs to 5.5 V
- Bus hold data inputs eliminate need for external pull-up resistors to hold unused inputs
- Live insertion and extraction permitted
- No bus current loading when output is tied to 5 V bus
- Power-up 3-state
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 500 mA per JESD 78 Class II Level B
- Complies with JEDEC standard JESD8C (2.7 V to 3.6 V)
- ESD protection:
  - HBM EIA/JESD22-A114-A exceeds 2000V
  - MM EIA/JESD22-A115-A exceeds 200V
- Specified from -40 °C to 85 °C

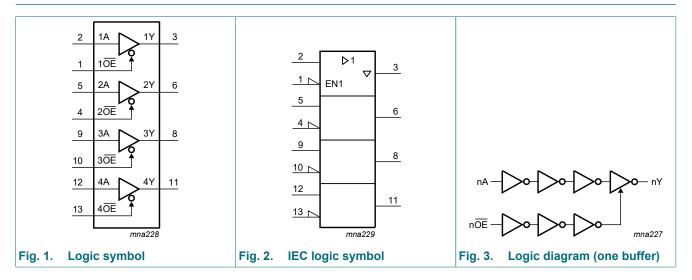
### 3. Ordering information

Table 1. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74LVT125D	-40 °C to +85 °C	SO14	plastic small outline package; 14 leads;	SOT108-1						
74LVTH125D			body width 3.9 mm							
74LVT125PW	-40 °C to +85 °C	TSSOP14	plastic thin shrink small outline package; 14 leads;	SOT402-1						
74LVTH125PW			body width 4.4 mm							
74LVT125BQ	-40 °C to +85 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced	SOT762-1						
74LVTH125BQ			very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm							

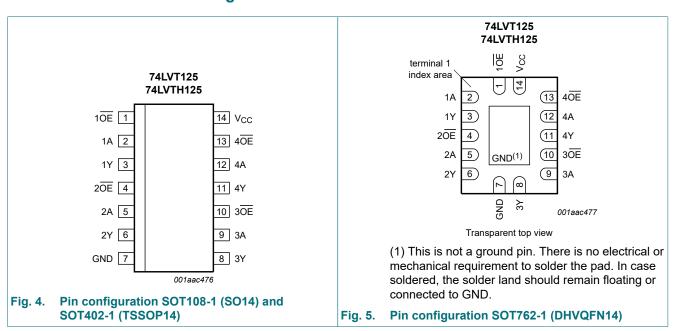


### 4. Functional diagram



## 5. Pinning information

### 5.1. Pinning



### 5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description				
1 <del>OE</del>	1	1 output enable input (active LOW)				
1A	2	1 data input				
1Y	3	1 data output				
2 <del>OE</del>	4	2 output enable input (active LOW)				
2A	5	2 data input				
2Y	6	2 data output				
GND	7	ground (0 V)				
3Y	8	3 data output				
3A	9	3 data input				
3 <del>OE</del>	10	3 output enable input (active LOW)				
4Y	11	4 data output				
4A	12	4 data input				
4 <del>OE</del>	13	4 output enable input (active LOW)				
V <sub>CC</sub>	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
nOE	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 <sub>CC</sub>	supply voltage		-0.5	+4.6	V
VI	input voltage	[1]	-0.5	+7.0	V
Vo	output voltage	output in OFF-state or HIGH-state [1]	-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-	-50	mA
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0 V	-	-50	mA
Io	output current	output in LOW-state	-	128	mA
		output in HIGH-state	-	-64	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
Tj	junction temperature	[2]	-	150	°C

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

### 8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		2.7	-	3.6	V
VI	input voltage		0	-	5.5	V
V <sub>IH</sub>	HIGH-level input voltage		2.0	-	-	V
V <sub>IL</sub>	LOW-level input voltage		-	-	0.8	V
I <sub>OH</sub>	HIGH-level output current		-	-	-32	mA
I <sub>OL</sub>	LOW-level output current	none	-	-	32	mA
		current duty cycle ≤ 50 %;f ≥ 1 kHz	-	-	64	mA
Δt/ΔV	input transition rise and fall rate		0	-	10	ns/V
T <sub>amb</sub>	ambient temperature	in free air	-40	-	+85	°C

### 9. Static characteristics

#### **Table 6. Static characteristics**

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

Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
T <sub>amb</sub> = -4	40 °C to +85 °C					
V <sub>IK</sub>	input clamping voltage	I <sub>IK</sub> = -18 mA; V <sub>CC</sub> = 2.7 V	-	-0.9	-1.2	V
V <sub>OH</sub>	HIGH-level output voltage	$I_{OH}$ = -100 $\mu$ A; $V_{CC}$ = 2.7 V to 3.6 V	V <sub>CC</sub> - 0.2	V <sub>CC</sub> - 0.1	-	V
		I <sub>OH</sub> = -8 mA; V <sub>CC</sub> = 2.7 V	2.4	2.5	-	V
		I <sub>OH</sub> = -32 mA; V <sub>CC</sub> = 3.0 V	2.0	2.2	-	V

<sup>[2]</sup> The performance capability of a high-performance integrated circuit in conjunction with its thermal environment can create junction temperatures which are detrimental to reliability.

Symbol	Parameter	Conditions		Min	Typ [1]	Max	Unit
V <sub>OL</sub>	LOW-level output voltage	V <sub>CC</sub> = 2.7 V					
		I <sub>OL</sub> = 100 μA		-	0.1	0.2	V
		I <sub>OL</sub> = 24 mA		-	0.3	0.5	V
		V <sub>CC</sub> = 3.0 V					
		I <sub>OL</sub> = 16 mA		-	0.25	0.4	V
		I <sub>OL</sub> = 32 mA		-	0.3	0.5	V
		I <sub>OL</sub> = 64 mA		-	0.4	0.55	V
I <sub>I</sub>	input leakage current	all input pins					
		V <sub>CC</sub> = 0 V or 3.6 V; V <sub>I</sub> = 5.5 V		-	1	10	μA
		control pins					
		V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = V <sub>CC</sub> or GND		-	±0.1	±1	μΑ
		data pins	[2]				
		V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = V <sub>CC</sub>		-	0.1	1	μΑ
		V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = 0 V		-	-1	-5	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 0 \text{ V to } 4.5 \text{ V}$		-	1	±100	μΑ
I <sub>BHL</sub>	bus hold LOW current	V <sub>CC</sub> = 3 V; V <sub>I</sub> = 0.8 V	[3]	75	150	-	μA
I <sub>BHH</sub>	bus hold HIGH current	V <sub>CC</sub> = 3 V; V <sub>I</sub> = 2.0 V		-	-150	-75	μΑ
I <sub>BHLO</sub>	bus hold LOW overdrive current	$V_{CC} = 3.6 \text{ V}; V_I = 0 \text{ V to } 3.6 \text{ V}$		500	-	-	μA
Івнно	bus hold HIGH overdrive current	$V_{CC} = 3.6 \text{ V}; V_I = 0 \text{ V to } 3.6 \text{ V}$		-	-	-500	μA
I <sub>LO</sub>	output leakage current	output in HIGH-state when $V_O > V_{CC}$ ; $V_O = 5.5 \text{ V}$ ; $V_{CC} = 3.0 \text{ V}$		-	60	125	μA
I <sub>O(pu/pd)</sub>	power-up/power-down output current	$V_{CC} \le 1.2 \text{ V}; V_O = 0.5 \text{ V to } V_{CC};$ $V_I = \text{GND or } V_{CC}; \text{ nOE} = \text{don't care}$	[4]	-	±1	±100	μA
l <sub>OZ</sub>	OFF-state output current	$V_{CC}$ = 3.6 V; $V_I$ = $V_{IH}$ or $V_{IL}$					
		output HIGH: V <sub>O</sub> = 3.0 V		-	1	5	μA
		output LOW: V <sub>O</sub> = 0.5 V		-	-1	-5	μA
I <sub>CC</sub>	supply current	$V_{CC}$ = 3.6 V; $V_I$ = GND or $V_{CC}$ ; $I_O$ = 0 A					
		outputs HIGH		-	0.13	0.19	mA
		outputs LOW		-	2	7	mA
		outputs disabled	[5]	-	0.13	0.19	mA
ΔI <sub>CC</sub>	additional supply current	per input pin; V <sub>CC</sub> = 3 V to 3.6 V; one input at V <sub>CC</sub> - 0.6 V and other inputs at V <sub>CC</sub> or GND	[6]	-	0.1	0.2	mA
Cı	input capacitance	V <sub>I</sub> = 0 V or 3.0 V		-	4	-	pF
- 1		The state of the s			1		_

<sup>[1]</sup> Typical values are measured at  $V_{CC}$  = 3.3 V and  $T_{amb}$  = 25 °C.

<sup>[2]</sup> Unused pins at V<sub>CC</sub> or GND.

<sup>[3]</sup> This is the bus hold overdrive current required to force the input to the opposite logic state.

<sup>[4]</sup> This parameter is valid for any V<sub>CC</sub> between 0 V and 1.2 V with a transition time of up to 10 ms.

From  $V_{CC}$  = 1.2 V to  $V_{CC}$  = 3.0 V to 3.6 V a transition time of 100  $\mu$ s is permitted. This parameter is valid for  $T_{amb}$  = 25 °C only.

<sup>[5]</sup>  $I_{CC}$  is measured with outputs pulled to  $V_{CC}$  or GND.

<sup>[6]</sup> This is the increase in supply current for each input at the specified voltage level other than V<sub>CC</sub> or GND.

### 10. Dynamic characteristics

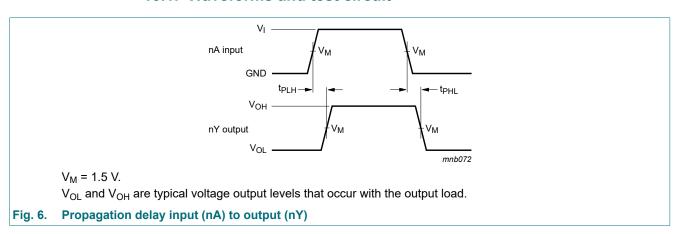
#### **Table 7. Dynamic characteristics**

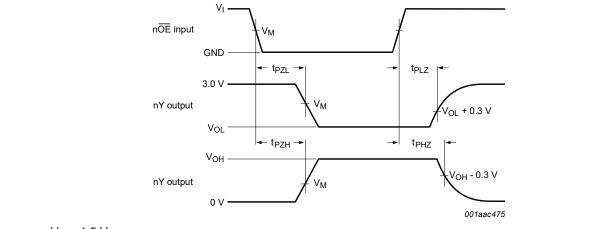
Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 8.

Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
T <sub>amb</sub> = -	40 °C to +85 °C		<b>-</b>			
t <sub>PLH</sub>	LOW to HIGH propagation delay	nAn to nY; see Fig. 6				
		V <sub>CC</sub> = 2.7 V	-	-	4.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	2.7	4.0	ns
t <sub>PHL</sub>	HIGH to LOW propagation delay	nAn to nY; see Fig. 6				
		V <sub>CC</sub> = 2.7 V	-	-	4.9	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	2.9	3.9	ns
t <sub>PZH</sub>	OFF-state to HIGH propagation delay	nOE to nY; see Fig. 7				
		V <sub>CC</sub> = 2.7 V	-	-	6.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	3.4	4.7	ns
t <sub>PZL</sub>	OFF-state to LOW propagation delay	nOE to nY; see Fig. 7				
		V <sub>CC</sub> = 2.7 V	-	-	6.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.1	3.4	4.7	ns
t <sub>PHZ</sub>	HIGH to OFF-state propagation delay	nOE to nY; see Fig. 7				
		V <sub>CC</sub> = 2.7 V	-	-	5.7	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.8	3.7	5.1	ns
t <sub>PLZ</sub>	LOW to OFF-state propagation delay	nOE to nY; see Fig. 7				
		V <sub>CC</sub> = 2.7 V	-	-	4.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.3	2.6	4.5	ns

<sup>[1]</sup> Typical values are at  $V_{CC}$  = 3.3 V and  $T_{amb}$  = 25 °C.

#### 10.1. Waveforms and test circuit

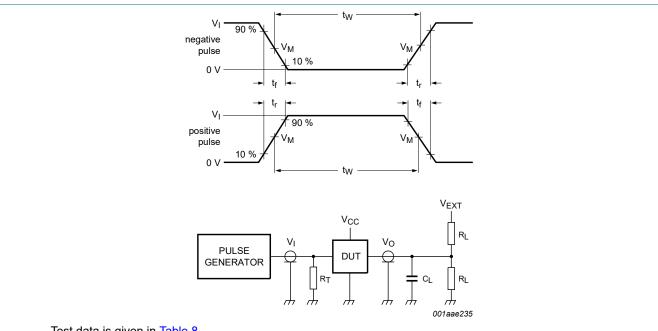




 $V_M = 1.5 V.$ 

V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

#### Enable and disable times of 3-state outputs Fig. 7.



Test data is given in Table 8.

Definitions test circuit:

R<sub>L</sub> = Load resistance.

C<sub>L</sub> = Load capacitance including jig and probe capacitance.

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

V<sub>EXT</sub> = Test voltage for switching times.

Fig. 8. Test circuit for measuring switching times

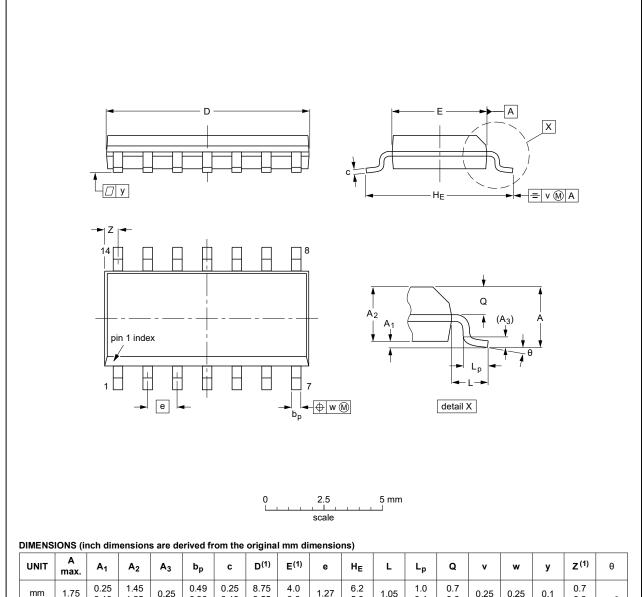
Table 8. Test data

Input				Load		V <sub>EXT</sub>			
V <sub>I</sub> f <sub>i</sub> t <sub>W</sub>		t <sub>W</sub>	t <sub>W</sub> t <sub>r</sub> , t <sub>f</sub> C <sub>L</sub>		$R_L$	t <sub>PHZ</sub> , t <sub>PZH</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>		
2.7 V	≤ 10 MHz	500 ns	≤ 2.5 ns	50 pF	500 Ω	GND	6 V	open	

### 11. Package outline

#### SO14: plastic small outline package; 14 leads; body width 3.9 mm

SOT108-1



	UNIT	A max.	<b>A</b> <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(1)</sup>	е	HE	L	Lp	Q	v	w	у	Z <sup>(1)</sup>	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°

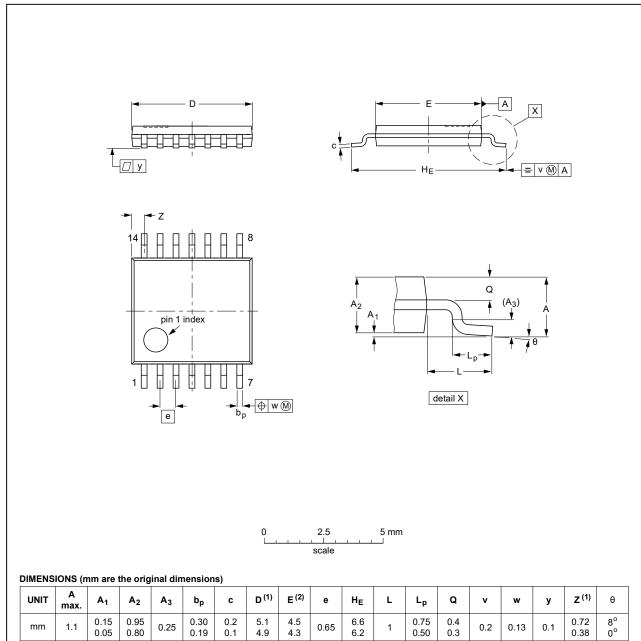
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

	OUTLINE		REFER	EUROPEAN	ISSUE DATE		
	VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
	SOT108-1	076E06	MS-012				<del>99-12-27</del> 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		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT402-1		MO-153				<del>99-12-27</del> 03-02-18

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

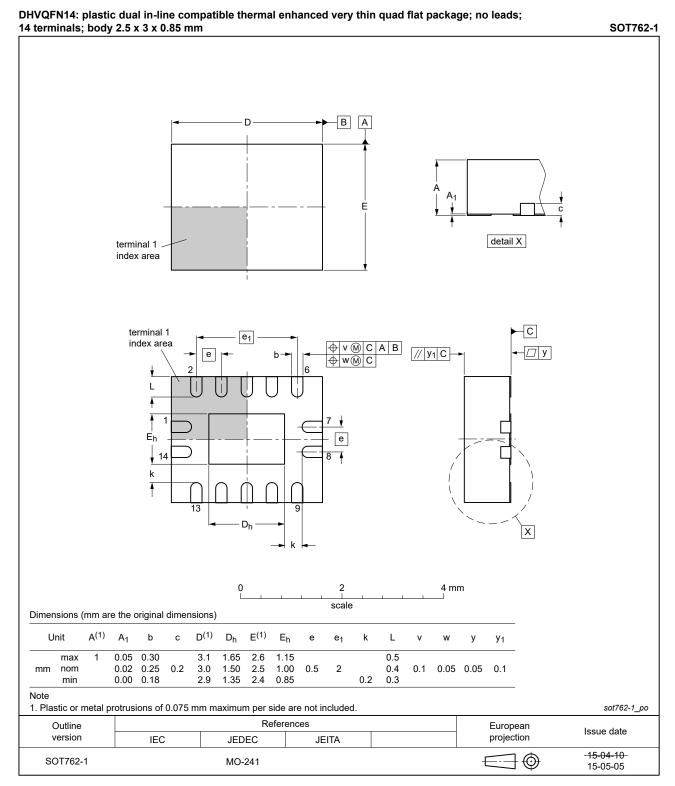


Fig. 11. Package outline SOT762-1 (DHVQFN14)

### 12. Abbreviations

#### **Table 9. Abbreviations**

Acronym	Description
BiCMOS	Bipolar Complementary Metal Oxide Semiconductor
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 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVT_LVTH125 v.8	20210818	Product data sheet	-	74LVT_LVTH125 v.7
Modifications:	guidelines of Legal texts Type number Section 1 a	of this data sheet has been of Nexperia. have been adapted to the error 74LVT125DB and 74LV and Section 2 updated. ed with test conditions (error	new company nar /TH125DB (SOT3	ne where appropriate.
74LVT_LVTH125 v.7	20160531	Product data sheet	-	74LVT125 v.6
Modifications:	guidelines o	of this data sheet has beer of NXP Semiconductors. have been adapted to the	· ·	
74LVT_LVTH125 v.6	20060306	Product data sheet	-	74LVT125 v.5
Modifications:	• <u>Section 3</u> : A 74LVTH125	• .	TH125D, 74LVTH1	125DB, 74LVTH125PW and
74LVT125 v.5	20050210	Product data sheet	-	74LVT125 v.4
74LVT125 v.4	20050207	Product data sheet	-	74LVT125 v.3
74LVT125 v.3	20040624	Product data sheet	-	74LVT125 v.2
74LVT125 v.2	19980219	Product specification	-	74LVT125 v.1
74LVT125 v.1	-	-	-	-

### 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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