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

1. General description

The 74LVT125; 74LVTH125 is a quad buffer/line driver with 3-state outputs controlled by the output enable inputs ($n\overline{OE}$). A HIGH on $n\overline{OE}$ 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_{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

- 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
- IOFF 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

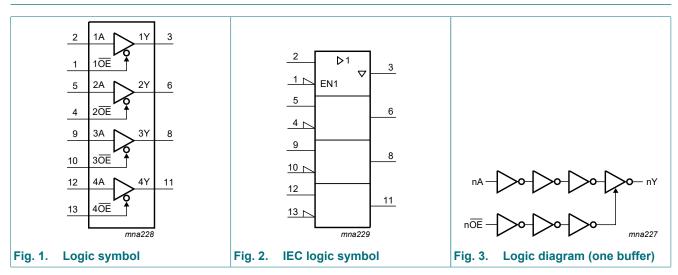
3. Ordering information

Table 1. Ordering information

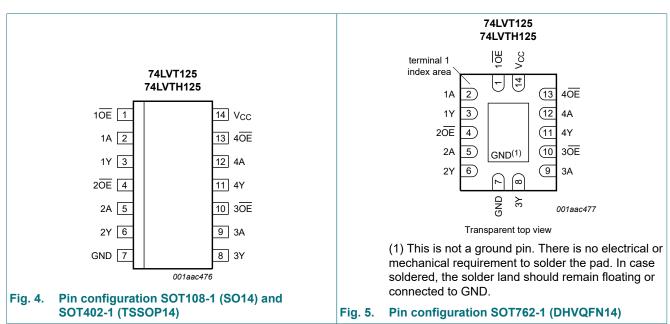
| Type number | Package | | | | | | |
|-------------|-------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|--|--|
| | 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 | | plastic thin shrink small outline package; 14 leads; | SOT402-1 | | | |
| 74LVTH125PW | | | body width 4.4 mm | | | | |
| 74LVT125BQ | -40 °C to +85 °C | DHVQFN14 | France and the second s | | | | |
| 74LVTH125BQ | | | very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm | | | | |

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4. Functional diagram



5. Pinning information



5.1. Pinning

| Table 2. Pin description | | | | | |
|--------------------------|-----|------------------------------------|--|--|--|
| Symbol | Pin | Description | | | |
| 1 0E | 1 | 1 output enable input (active LOW) | | | |
| 1A | 2 | 1 data input | | | |
| 1Y | 3 | 1 data output | | | |
| 2 0E | 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 0E | 10 | 3 output enable input (active LOW) | | | |
| 4Y | 11 | 4 data output | | | |
| 4A | 12 | 4 data input | | | |
| 4 0E | 13 | 4 output enable input (active LOW) | | | |
| V _{CC} | 14 | supply voltage | | | |
| | | | | | |

5.2. Pin description

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 _{CC} | 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 _{IK} | input clamping current | V _I < 0 V | - | -50 | mA |
| I _{ОК} | output clamping current | V _O < 0 V | - | -50 | mA |
| I _O | output current | output in LOW-state | - | 128 | mA |
| | | output in HIGH-state | - | -64 | mA |
| T _{stg} | storage temperature | | -65 | +150 | °C |
| Tj | junction temperature | [2] | - | 150 | °C |

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

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

8. Recommended operating conditions

Table 5. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Тур | Мах | Unit |
|------------------|-------------------------------------|-------------------------------------|-----|-----|-----|------|
| V _{CC} | supply voltage | | 2.7 | - | 3.6 | V |
| VI | input voltage | | 0 | - | 5.5 | V |
| V _{IH} | HIGH-level input voltage | | 2.0 | - | - | V |
| V _{IL} | LOW-level input voltage | | - | - | 0.8 | V |
| I _{OH} | HIGH-level output current | | - | - | -32 | mA |
| I _{OL} | 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 _{amb} | 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 | meter Conditions | | Тур <mark>[1]</mark> | Max | Unit | |
|-----------------------|-------------------------------------|---------------------------------------------------|-----------------------|-----------------------|------|------|--|
| T _{amb} = -4 | T _{amb} = -40 °C to +85 °C | | | | | | |
| V _{IK} | input clamping voltage | I _{IK} = -18 mA; V _{CC} = 2.7 V | - | -0.9 | -1.2 | V | |
| V _{OH} | HIGH-level output voltage | I_{OH} = -100 µA; V_{CC} = 2.7 V to 3.6 V | V _{CC} - 0.2 | V _{CC} - 0.1 | - | V | |
| | | I _{OH} = -8 mA; V _{CC} = 2.7 V | 2.4 | 2.5 | - | V | |
| | | I _{OH} = -32 mA; V _{CC} = 3.0 V | 2.0 | 2.2 | - | V | |

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| Symbol | Parameter | Conditions | | Min | Typ [1] | Мах | Unit |
|-----------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----|-----|---------|------|------|
| V _{OL} | LOW-level output voltage | V _{CC} = 2.7 V | | | | | |
| | | I _{OL} = 100 μA | | - | 0.1 | 0.2 | V |
| | | I _{OL} = 24 mA | | - | 0.3 | 0.5 | V |
| | | V _{CC} = 3.0 V | | | | | |
| | | I _{OL} = 16 mA | | - | 0.25 | 0.4 | V |
| | | I _{OL} = 32 mA | | - | 0.3 | 0.5 | V |
| | | I _{OL} = 64 mA | | - | 0.4 | 0.55 | V |
| l _l | input leakage current | all input pins | | | | | |
| | | V _{CC} = 0 V or 3.6 V; V _I = 5.5 V | | - | 1 | 10 | μA |
| | | control pins | | | | | |
| | | V_{CC} = 3.6 V; V_{I} = V_{CC} or GND | | - | ±0.1 | ±1 | μA |
| | | data pins | [2] | | | | |
| | | $V_{CC} = 3.6 \text{ V}; \text{ V}_{I} = \text{V}_{CC}$ | | - | 0.1 | 1 | μA |
| | | V _{CC} = 3.6 V; V _I = 0 V | | - | -1 | -5 | μA |
| I _{OFF} | power-off leakage current | $V_{CC} = 0 \text{ V}; \text{ V}_{I} \text{ or } \text{ V}_{O} = 0 \text{ V to } 4.5 \text{ V}$ | | - | 1 | ±100 | μA |
| I _{BHL} | bus hold LOW current | V _{CC} = 3 V; V _I = 0.8 V | [3] | 75 | 150 | - | μA |
| I _{BHH} | bus hold HIGH current | V _{CC} = 3 V; V _I = 2.0 V | | - | -150 | -75 | μA |
| I _{BHLO} | bus hold LOW overdrive current | $V_{CC} = 3.6 \text{ V}; \text{ V}_{I} = 0 \text{ V} \text{ to } 3.6 \text{ V}$ | | 500 | - | - | μA |
| I _{BHHO} | bus hold HIGH overdrive current | $V_{CC} = 3.6 \text{ V}; \text{ V}_{I} = 0 \text{ V} \text{ to } 3.6 \text{ V}$ | | - | - | -500 | μA |
| I _{LO} | output leakage current | output in HIGH-state when $V_O > V_{CC}$; $V_O = 5.5 V$; $V_{CC} = 3.0 V$ | | - | 60 | 125 | μA |
| I _{O(pu/pd)} | power-up/power-down output current | $V_{CC} \le 1.2 \text{ V}; V_O = 0.5 \text{ V to } V_{CC};$ V _I = GND or V _{CC} ; nOE = don't care | [4] | - | ±1 | ±100 | μA |
| I _{OZ} | OFF-state output current | V_{CC} = 3.6 V; V_{I} = V_{IH} or V_{IL} | | | | | |
| | | output HIGH: V _O = 3.0 V | | - | 1 | 5 | μA |
| | | output LOW: V _O = 0.5 V | | - | -1 | -5 | μA |
| I _{CC} | 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 |
| ∆I _{CC} | additional supply current | per input pin; V_{CC} = 3 V to 3.6 V; [6] one input at V_{CC} - 0.6 V and other inputs at V_{CC} or GND | | - | 0.1 | 0.2 | mA |
| CI | input capacitance | V _I = 0 V or 3.0 V | | - | 4 | - | pF |
| Co | output capacitance | outputs disabled; $V_0 = 0 V$ or 3.0 V | | - | 8 | - | pF |

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

[2] Unused pins at V_{CC} or GND.

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

[4] This parameter is valid for any V_{CC} 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 µs is permitted. This parameter is valid for T_{amb} = 25 °C only.

[5] I_{CC} is measured with outputs pulled to V_{CC} or GND.

[6] This is the increase in supply current for each input at the specified voltage level other than V_{CC} or GND.

10. Dynamic characteristics

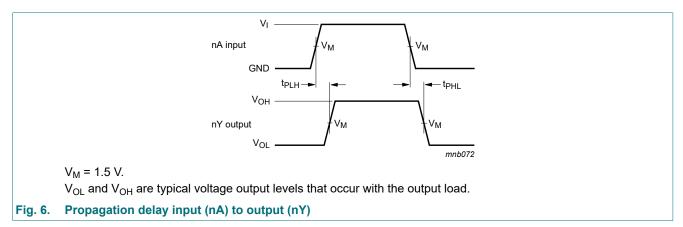
Table 7. Dynamic characteristics

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

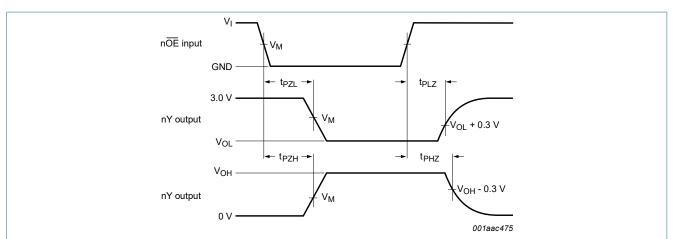
| Symbol | Parameter | Conditions | Min | Typ [1] | Max | Unit |
|----------------------------|-------------------------------------|----------------------------------|-----|---------|-----|------|
| T _{amb} = - | 40 °C to +85 °C | | | 11 | | -1 |
| t _{PLH} | LOW to HIGH propagation delay | nAn to nY; see <u>Fig. 6</u> | | | | |
| | | V _{CC} = 2.7 V | - | - | 4.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 2.7 | 4.0 | ns |
| t _{PHL} | HIGH to LOW propagation delay | nAn to nY; see <u>Fig. 6</u> | | | | |
| | | V _{CC} = 2.7 V | - | - | 4.9 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 2.9 | 3.9 | ns |
| t _{PZH} OFF-state | OFF-state to HIGH propagation delay | nOE to nY; see Fig. 7 | | | | |
| | | V _{CC} = 2.7 V | - | - | 6.0 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 3.4 | 4.7 | ns |
| t _{PZL} | OFF-state to LOW propagation delay | nOE to nY; see Fig. 7 | | | | |
| | | V _{CC} = 2.7 V | - | - | 6.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.1 | 3.4 | 4.7 | ns |
| t _{PHZ} | HIGH to OFF-state propagation delay | nOE to nY; see <u>Fig. 7</u> | | | | |
| | | V _{CC} = 2.7 V | - | - | 5.7 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.8 | 3.7 | 5.1 | ns |
| t _{PLZ} | LOW to OFF-state propagation delay | nOE to nY; see Fig. 7 | | | | |
| | | V _{CC} = 2.7 V | - | - | 4.0 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.3 | 2.6 | 4.5 | ns |

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

10.1. Waveforms and test circuit



3.3 V quad buffer; 3-state



V_M = 1.5 V.

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

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

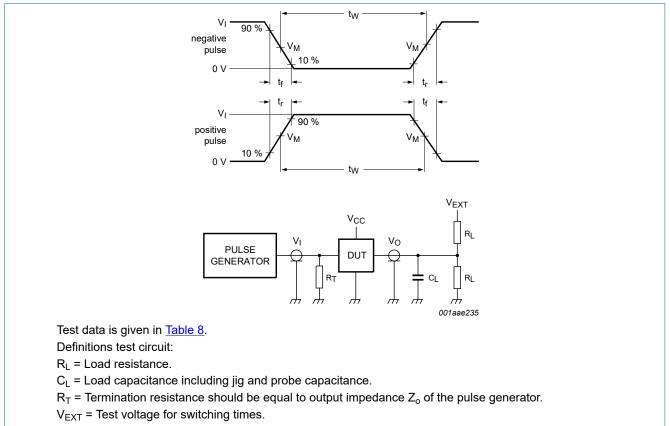


Fig. 8. Test circuit for measuring switching times

| Table 8. Test data | | | | | | | | |
|--------------------|----------|----------------|---------------------------------|-------|-------|-------------------------------------|-------------------------------------|-------------------------------------|
| Input | | | Load | Load | | V _{EXT} | | |
| VI | fi | t _w | t _r , t _f | CL | RL | t _{PHZ} , t _{PZH} | t _{PLZ} , t _{PZL} | t _{PLH} , t _{PHL} |
| 2.7 V | ≤ 10 MHz | 500 ns | ≤ 2.5 ns | 50 pF | 500 Ω | GND | 6 V | open |

74LVT_LVTH125

11. Package outline

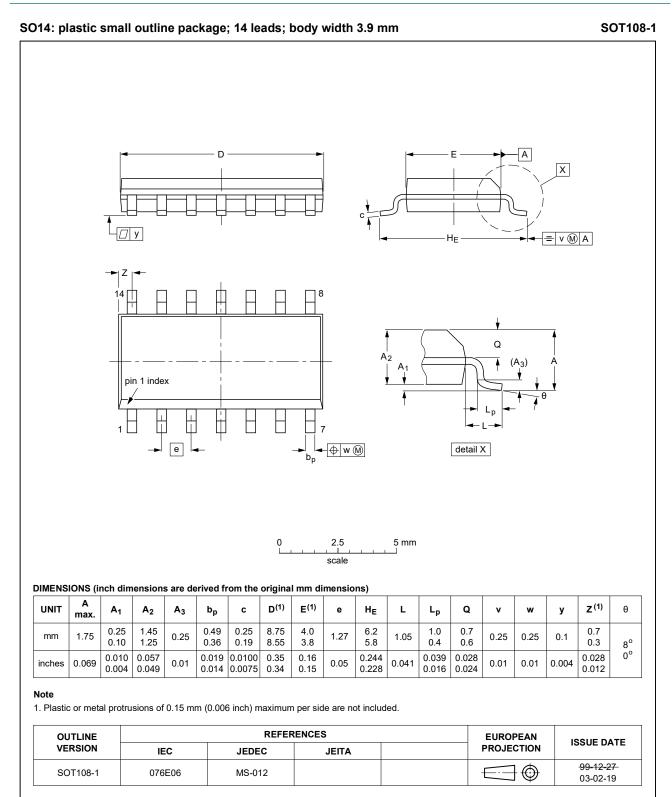


Fig. 9. Package outline SOT108-1 (SO14)

3.3 V quad buffer; 3-state

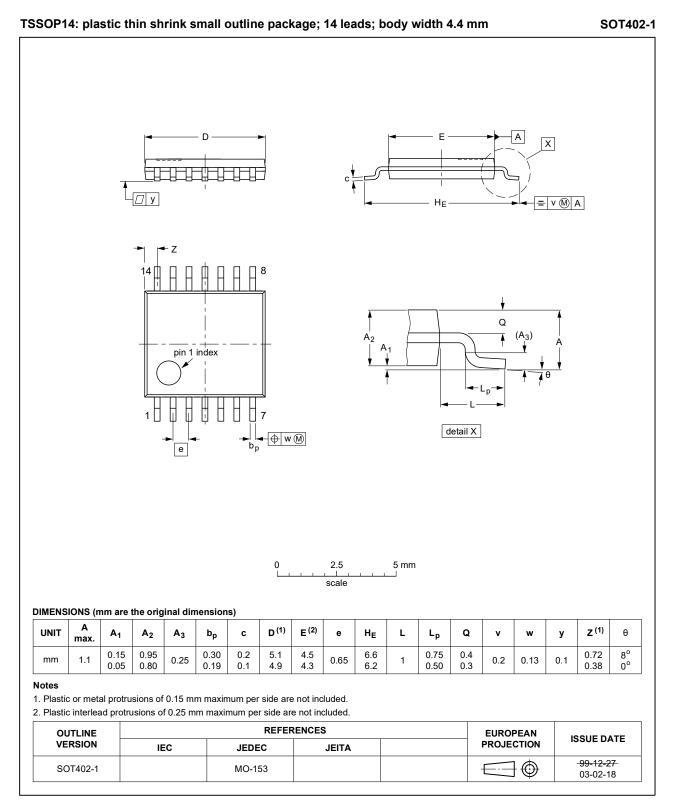


Fig. 10. Package outline SOT402-1 (TSSOP14)

3.3 V quad buffer; 3-state

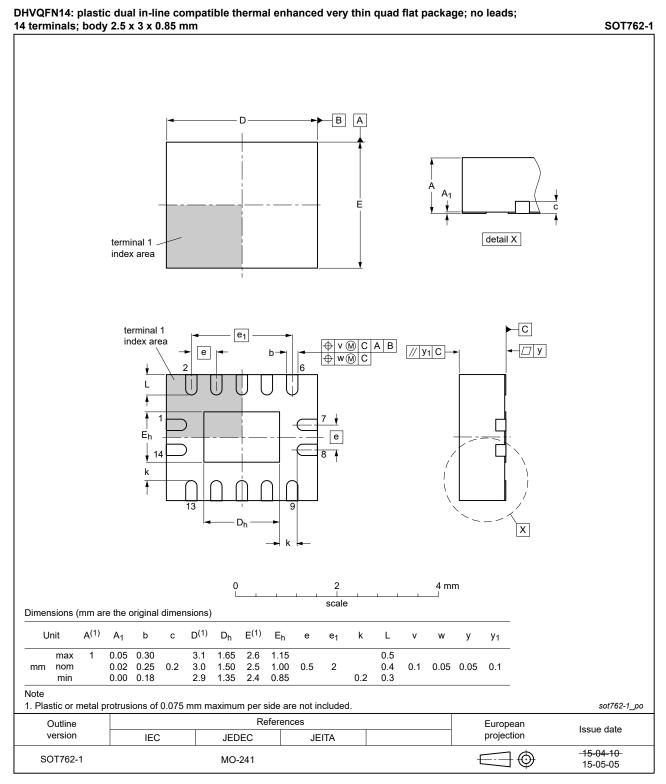


Fig. 11. Package outline SOT762-1 (DHVQFN14)

12. 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 |
| ММ | 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 Legal texts Type numb <u>Section 1</u> a | Type numbers 74LVT125DB and 74LVTH125DB (SOT337-1/SSOP14) removed. Section 1 and Section 2 updated. | | | | | | |
| 74LVT_LVTH125 v.7 | 20160531 | Product data sheet | - | 74LVT125 v.6 | | | | |
| Modifications: | guidelines | of this data sheet has bee of NXP Semiconductors. have been adapted to the | - | omply with the new identity ne where appropriate. | | | | |
| 74LVT_LVTH125 v.6 | 20060306 | Product data sheet | - | 74LVT125 v.5 | | | | |
| Modifications: | • <u>Section 3</u> : 74LVTH12 | •• | TH125D, 74LVTH ⁻ | 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 | - | - | - | - | | | | |

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| Document status [1][2] | Product status [3] | Definition |
|-----------------------------------|-----------------------|---------------------------------------------------------------------------------------------|
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