

74LVT16244B; 74LVTH16244B

3.3 V 16-bit buffer/driver; 3-state

Rev. 14 — 26 March 2024

Product data sheet

1. General description

The 74LVT16244B; 74LVTH16244B is a 16-bit buffer/line driver with 3-state outputs. The device can be used as four 4-bit buffers, two 8-bit buffers or one 16-bit buffer. The device features four output enables (1OE, 2OE, 3OE and 4OE), each controlling four of the 3-state outputs. 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

2. Features and benefits

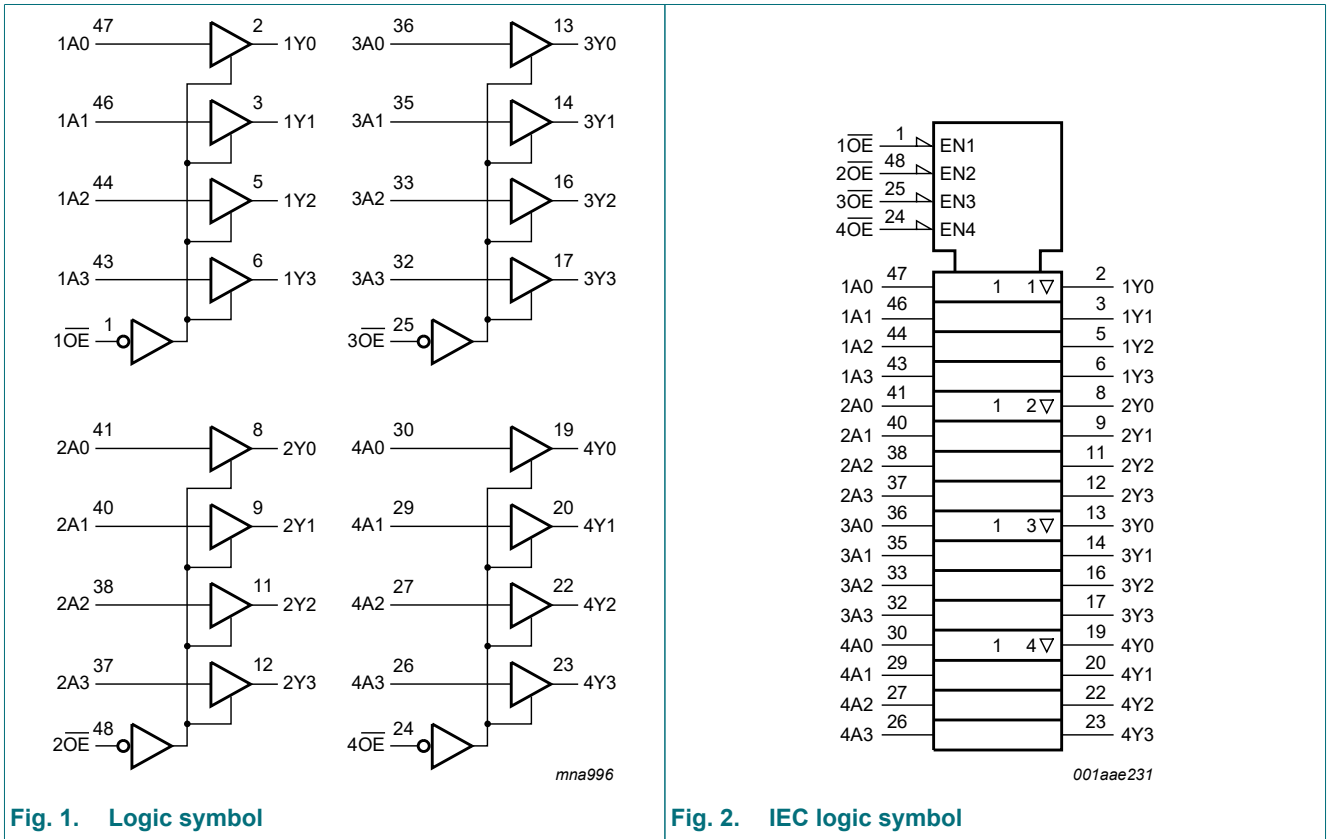
- 16-bit bus interface
- 3-state buffers
- Wide supply voltage range from 2.7 to 3.6 V
- Overvoltage tolerant inputs to 5.5 V
- BiCMOS high speed and output drive
- Output capability: +64 mA and -32 mA
- Direct interface with TTL levels
- Bus hold data inputs eliminate need for external pull-up resistors to hold unused inputs
- Power-up 3-state
- Live insertion and extraction permitted
- No bus current loading when output is tied to 5 V bus
- I_{OFF} 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 JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to 85 °C

3. Ordering information

Table 1. Ordering information

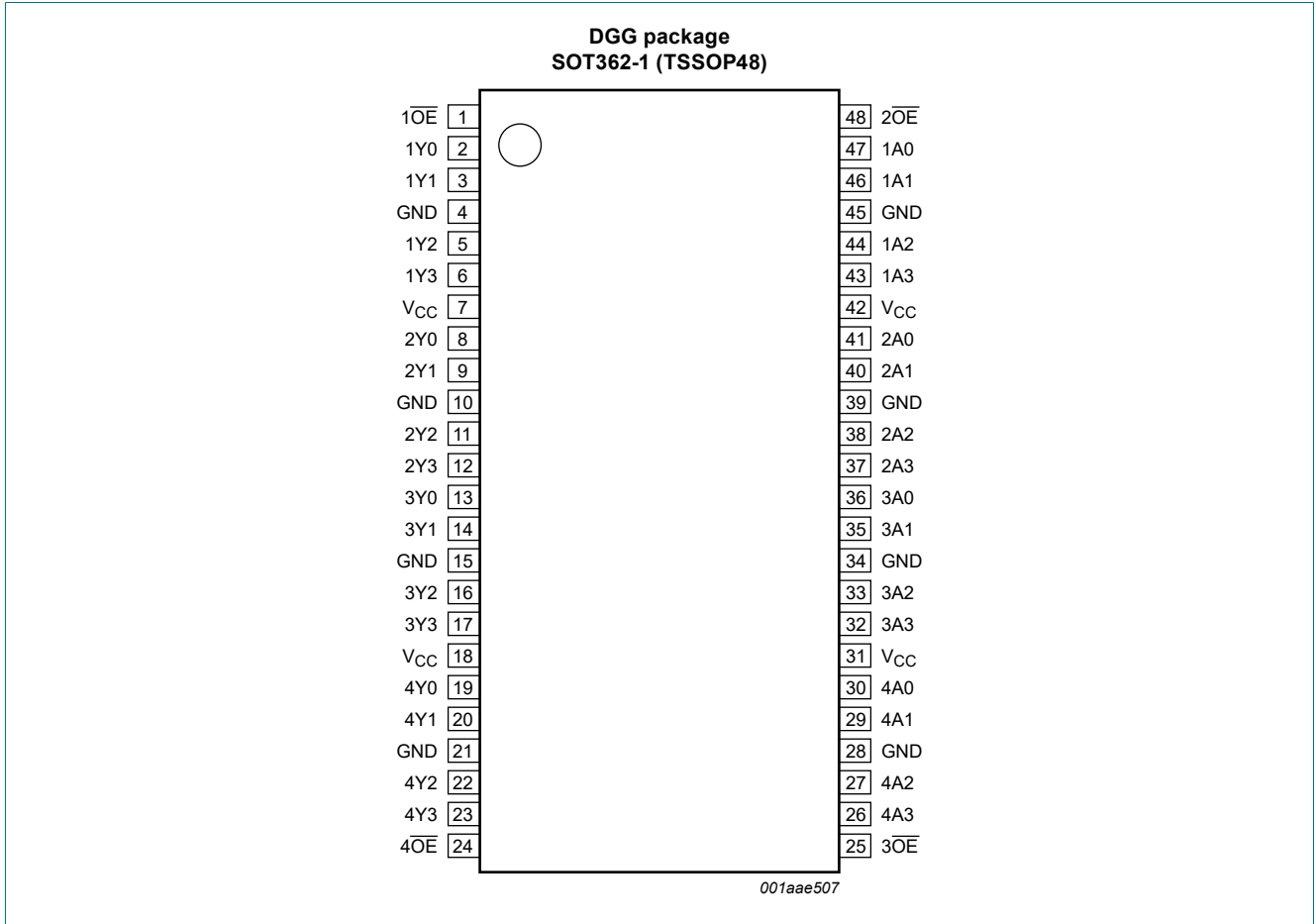
| Type number | Package | | | Version |
|---|-------------------|---------|--|--------------------------|
| | Temperature range | Name | Description | |
| 74LVT16244BDGG 74LVTH16244BDGG | -40 °C to +85 °C | TSSOP48 | plastic thin shrink small outline package; 48 leads; body width 6.1 mm | SOT362-1 |

4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

| Symbol | Pin | Description |
|--------------------|-------------------------------|----------------------------------|
| 1OE, 2OE, 3OE, 4OE | 1, 48, 25, 24 | output enable input (active LOW) |
| 1Y0, 1Y1, 1Y2, 1Y3 | 2, 3, 5, 6 | data output |
| 2Y0, 2Y1, 2Y2, 2Y3 | 8, 9, 11, 12 | data output |
| 3Y0, 3Y1, 3Y2, 3Y3 | 13, 14, 16, 17 | data output |
| 4Y0, 4Y1, 4Y2, 4Y3 | 19, 20, 22, 23 | data output |
| GND | 4, 10, 15, 21, 28, 34, 39, 45 | ground (0 V) |
| V _{CC} | 7, 18, 31, 42 | supply voltage |
| 1A0, 1A1, 1A2, 1A3 | 47, 46, 44, 43 | data input |
| 2A0, 2A1, 2A2, 2A3 | 41, 40, 38, 37 | data input |
| 3A0, 3A1, 3A2, 3A3 | 36, 35, 33, 32 | data input |
| 4A0, 4A1, 4A2, 4A3 | 30, 29, 27, 26 | data input |

6. Functional description

Table 3. Function table

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

| Control | Input | Output |
|---------|-------|--------|
| nOE | nAn | nYn |
| L | L | L |
| L | H | H |
| H | 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 |
| V _I | input voltage | | [1] -0.5 | +7.0 | V |
| V _O | 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 _{OK} | 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 |
| T _j | junction temperature | | [2] - | 150 | °C |
| P _{tot} | total power dissipation | T _{amb} = -40 °C to +85 °C; | - | 500 | mW |

[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 | Typ | Max | Unit |
|------------------|-------------------------------------|---|-----|-----|-----|------|
| V _{CC} | supply voltage | | 2.7 | - | 3.6 | V |
| V _I | 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 _i ≥ 1 kHz | - | - | 64 | mA |
| T _{amb} | ambient temperature | in free-air | -40 | - | +85 | °C |
| Δt/ΔV | input transition rise and fall rate | outputs enabled | - | - | 10 | ns/V |

9. Static characteristics

Table 6. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); $T_{amb} = -40\text{ °C to }+85\text{ °C}$.

| Symbol | Parameter | Conditions | Min | Typ [1] | Max | Unit |
|-----------------|---|---|----------------|----------|-----------|---------------|
| V_{IK} | input clamping voltage | $V_{CC} = 2.7\text{ V}$; $I_{IK} = -18\text{ mA}$ | -1.2 | -0.85 | - | V |
| V_{OH} | HIGH-level output voltage | $I_{OH} = -100\text{ }\mu\text{A}$; $V_{CC} = 2.7\text{ V to }3.6\text{ V}$ | $V_{CC} - 0.2$ | V_{CC} | - | V |
| | | $I_{OH} = -8\text{ mA}$; $V_{CC} = 2.7\text{ V}$ | 2.4 | 2.5 | - | V |
| | | $I_{OH} = -32\text{ mA}$; $V_{CC} = 3.0\text{ V}$ | 2.0 | 2.3 | - | V |
| V_{OL} | LOW-level output voltage | $V_{CC} = 2.7\text{ V}$ | | | | |
| | | $I_{OL} = 100\text{ }\mu\text{A}$ | - | 0.07 | 0.2 | V |
| | | $I_{OL} = 24\text{ mA}$ | - | 0.3 | 0.5 | V |
| | | $V_{CC} = 3.0\text{ V}$ | | | | |
| | | $I_{OL} = 16\text{ mA}$ | - | 0.25 | 0.4 | V |
| | | $I_{OL} = 32\text{ mA}$ | - | 0.3 | 0.5 | V |
| I_I | input leakage current | all input pins; $V_{CC} = 0\text{ V or }3.6\text{ V}$; $V_I = 5.5\text{ V}$ | - | 0.1 | 10 | μA |
| | | control pins; $V_{CC} = 3.6\text{ V}$; $V_I = V_{CC}$ or GND | - | 0.1 | ± 1.0 | μA |
| | | data pins; $V_{CC} = 3.6\text{ V}$ [2] | | | | |
| | | $V_I = V_{CC}$ | - | 0.1 | 1 | μA |
| | | $V_I = 0\text{ V}$ | -5 | -0.1 | - | μA |
| I_{OFF} | power-off leakage current | $V_{CC} = 0\text{ V}$; V_I or $V_O = 0\text{ V to }4.5\text{ V}$ | - | 0.1 | ± 100 | μA |
| I_{BHL} | bus hold LOW current | $V_{CC} = 3\text{ V}$; $V_I = 0.8\text{ V}$ [3] | 75 | 135 | - | μA |
| I_{BHH} | bus hold HIGH current | $V_{CC} = 3\text{ V}$; $V_I = 2.0\text{ V}$ | - | -135 | -75 | μA |
| I_{BHLO} | bus hold LOW overdrive current | nAn input; $V_{CC} = 3.6\text{ V}$; $V_I = 0\text{ V to }3.6\text{ V}$ | 500 | - | - | μA |
| I_{BHHO} | bus hold HIGH overdrive current | nAn input; $V_{CC} = 3.6\text{ V}$; $V_I = 0\text{ V to }3.6\text{ V}$ | - | - | -500 | μA |
| I_{LO} | output leakage current | output in HIGH-state when $V_O > V_{CC}$; $V_O = 5.5\text{ V}$; $V_{CC} = 3.0\text{ V}$ | - | 50 | 125 | μA |
| $I_{O(pu/pd)}$ | power-up/ power-down output current | $V_{CC} \leq 1.2\text{ V}$; $V_O = 0.5\text{ V to }V_{CC}$; $V_I = \text{GND or }V_{CC}$; nOE = don't care [4] | - | 1 | ± 100 | μA |
| I_{OZ} | OFF-state output current | $V_{CC} = 3.6\text{ V}$; $V_I = V_{IH}$ or V_{IL} | | | | |
| | | output HIGH: $V_O = 3.0\text{ V}$ | - | 0.5 | 5 | μA |
| | | output LOW: $V_O = 0.5\text{ V}$ | -5 | +0.5 | - | μA |
| I_{CC} | supply current | $V_{CC} = 3.6\text{ V}$; $V_I = \text{GND or }V_{CC}$; $I_O = 0\text{ A}$ | | | | |
| | | output HIGH | - | 0.07 | 0.12 | mA |
| | | output LOW | - | 4.0 | 6.0 | mA |
| | | outputs disabled [5] | - | 0.07 | 0.12 | mA |
| ΔI_{CC} | additional supply current | per input pin; $V_{CC} = 3.0\text{ V to }3.6\text{ V}$; one input at $V_{CC} - 0.6\text{ V}$, other inputs at V_{CC} or GND [6] | - | 0.1 | 0.2 | mA |

| Symbol | Parameter | Conditions | Min | Typ [1] | Max | Unit |
|--------|--------------------|--|-----|---------|-----|------|
| C_I | input capacitance | $V_I = 0\text{ V}$ or 3.0 V | - | 3 | - | pF |
| C_O | output capacitance | outputs disabled; $V_O = 0\text{ V}$ or 3.0 V | - | 9 | - | pF |

[1] Typical values are measured at $V_{CC} = 3.3\text{ V}$ and at $T_{amb} = 25\text{ }^\circ\text{C}$.

[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 $V_{CC} = 1.2\text{ V}$ to $V_{CC} = 3.3\text{ V} \pm 0.3\text{ V}$ a transition time of $100\text{ }\mu\text{s}$ is permitted. This parameter is valid for $T_{amb} = 25\text{ }^\circ\text{C}$ 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); $T_{amb} = -40\text{ }^\circ\text{C}$ to $+85\text{ }^\circ\text{C}$; for test circuit see Fig. 5.

| Symbol | Parameter | Conditions | Min | Typ [1] | Max | Unit |
|-----------|-------------------------------------|---|-----|---------|-----|------|
| t_{PLH} | LOW to HIGH propagation delay | nAn to nYn; see Fig. 3 | | | | |
| | | $V_{CC} = 2.7\text{ V}$ | - | - | 4.0 | ns |
| | | $V_{CC} = 3.0\text{ V}$ to 3.6 V | 0.5 | 1.8 | 3.2 | ns |
| t_{PHL} | HIGH to LOW propagation delay | nAn to nYn; see Fig. 3 | | | | |
| | | $V_{CC} = 2.7\text{ V}$ | - | - | 4.0 | ns |
| | | $V_{CC} = 3.0\text{ V}$ to 3.6 V | 0.5 | 1.7 | 3.2 | ns |
| t_{PZH} | OFF-state to HIGH propagation delay | $n\overline{OE}$ to nYn; see Fig. 4 | | | | |
| | | $V_{CC} = 2.7\text{ V}$ | - | - | 5.0 | ns |
| | | $V_{CC} = 3.0\text{ V}$ to 3.6 V | 1.0 | 2.3 | 4.0 | ns |
| t_{PZL} | OFF-state to LOW propagation delay | $n\overline{OE}$ to nYn; see Fig. 4 | | | | |
| | | $V_{CC} = 2.7\text{ V}$ | - | - | 5.3 | ns |
| | | $V_{CC} = 3.0\text{ V}$ to 3.6 V | 1.0 | 2.1 | 4.0 | ns |
| t_{PHZ} | HIGH to OFF-state propagation delay | $n\overline{OE}$ to nYn; see Fig. 4 | | | | |
| | | $V_{CC} = 2.7\text{ V}$ | - | - | 5.0 | ns |
| | | $V_{CC} = 3.0\text{ V}$ to 3.6 V | 1.0 | 3.2 | 4.5 | ns |
| t_{PLZ} | LOW to OFF-state propagation delay | $n\overline{OE}$ to nYn; see Fig. 4 | | | | |
| | | $V_{CC} = 2.7\text{ V}$ | - | - | 4.4 | ns |
| | | $V_{CC} = 3.0\text{ V}$ to 3.6 V | 1.0 | 2.9 | 4.0 | ns |

[1] Typical values are measured at $V_{CC} = 3.3\text{ V}$ and $T_{amb} = 25\text{ }^\circ\text{C}$.

10.1. Waveforms and test circuit

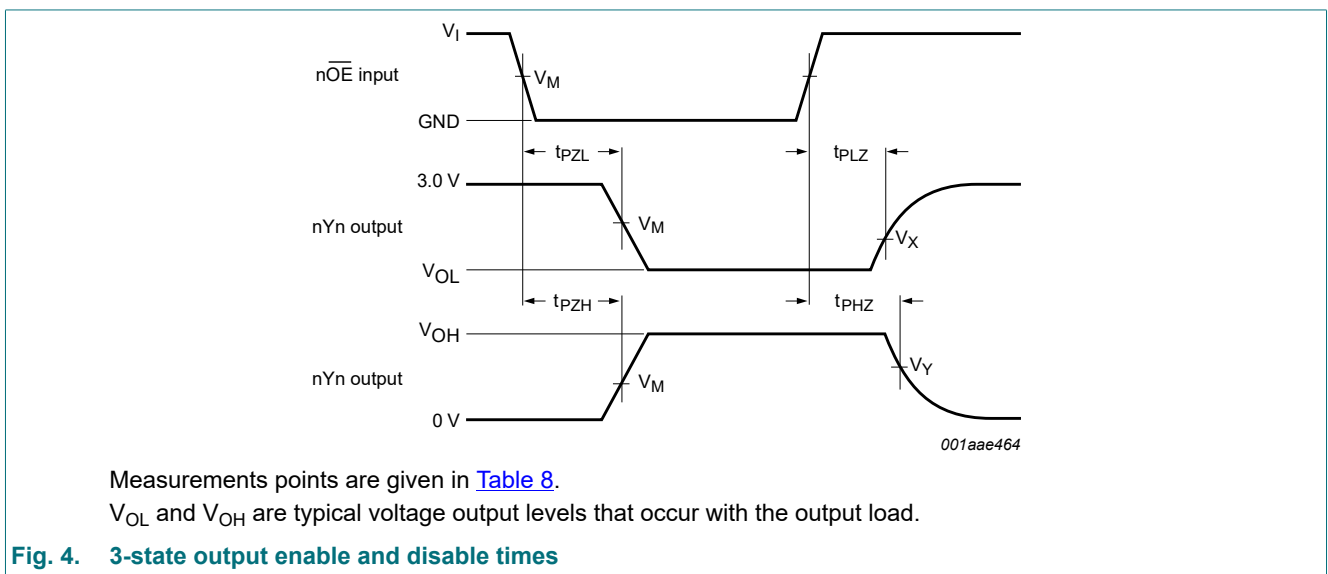
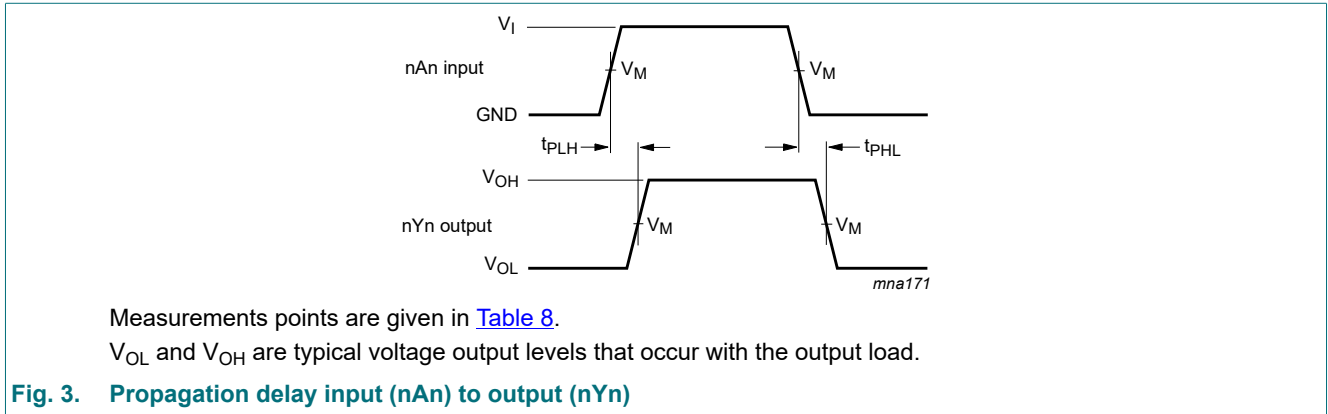
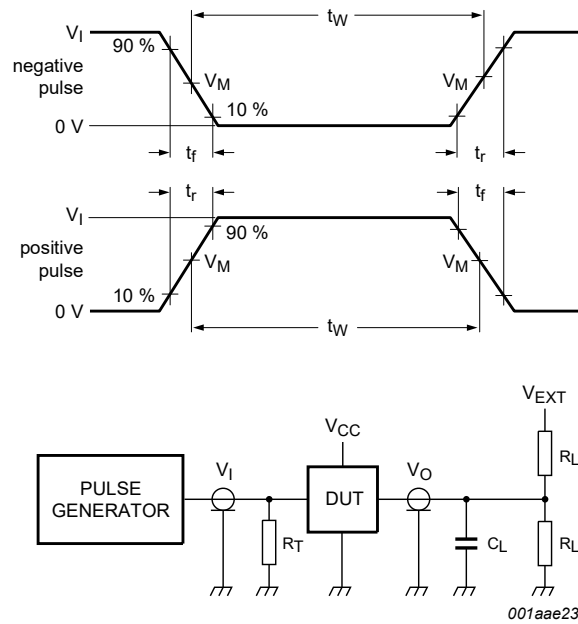


Table 8. Measurement points

| Input | Output | | |
|-------|--------|--------------------------|--------------------------|
| V_M | V_M | V_X | V_Y |
| 1.5 V | 1.5 V | $V_{OL} + 0.3 \text{ V}$ | $V_{OH} - 0.3 \text{ V}$ |



Test data is given in [Table 9](#).

Definitions 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_o of the pulse generator;

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

Fig. 5. Test circuit for measuring switching times

Table 9. Test data

| Input | | | | Load | | V_{EXT} | | |
|-------|---------------|--------|---------------|-------|--------------|--------------------|--------------------|--------------------|
| V_I | f_i | t_w | t_r, t_f | C_L | R_L | 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 |

11. Package outline

TSSOP48: plastic thin shrink small outline package; 48 leads; body width 6.1 mm

SOT362-1

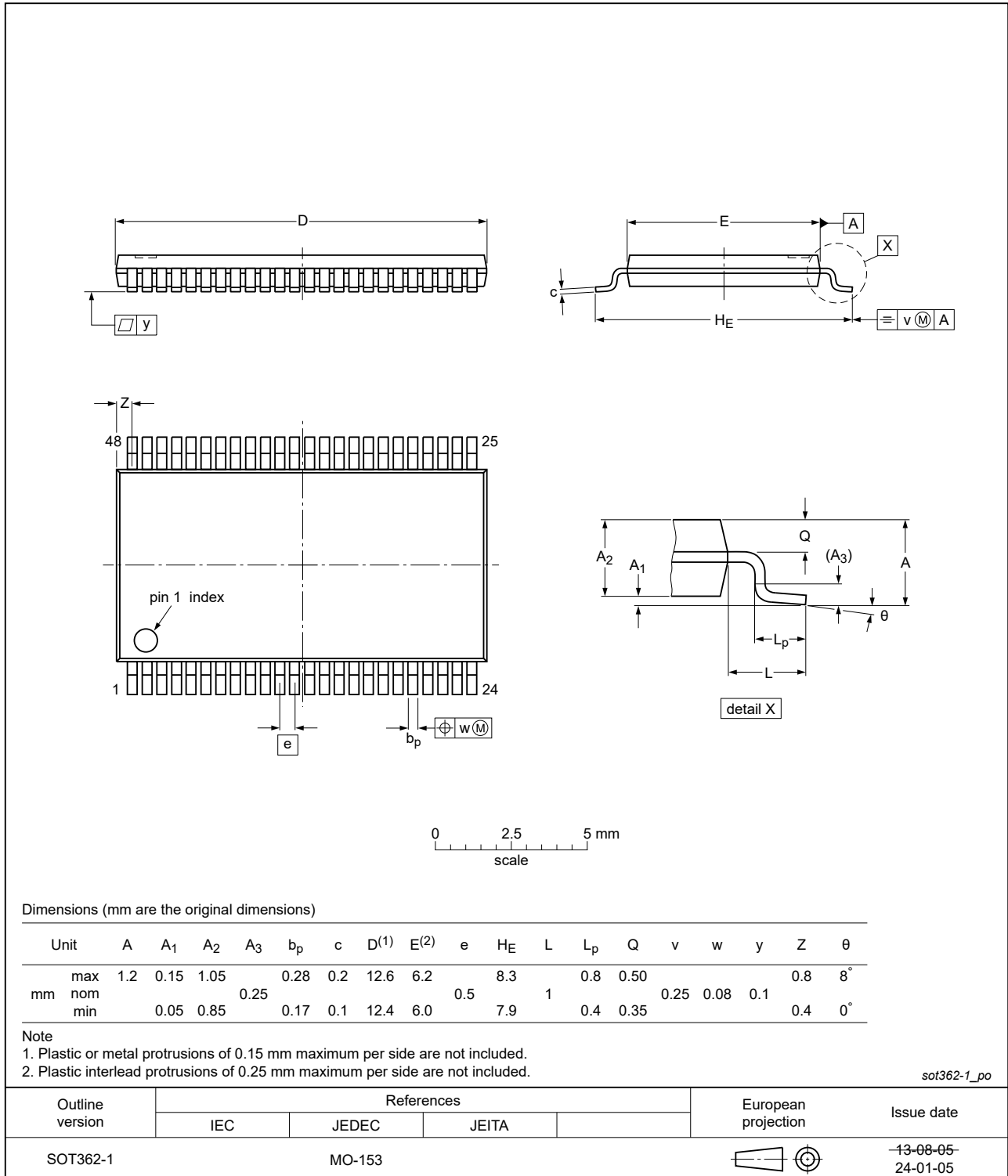


Fig. 6. Package outline SOT362-1 (TSSOP48)

12. Abbreviations

Table 10. Abbreviations

| Acronym | Description |
|---------|---|
| BiCMOS | Bipolar Complementary Metal Oxide Semiconductor |
| DUT | Device Under Test |
| ESD | ElectroStatic Discharge |
| HBM | Human Body Model |
| MM | Machine Model |
| TTL | Transistor-Transistor Logic |

13. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|-----------------------|---|-----------------------|---------------|-----------------------|
| 74LVT_LVTH16244B v.14 | 20240326 | Product data sheet | - | 74LVT_LVTH16244B v.13 |
| Modifications: | <ul style="list-style-type: none"> • Fig. 6: Updated package outline drawing SOT362-1 (TSSOP48). | | | |
| 74LVT_LVTH16244B v.13 | 20210812 | Product data sheet | - | 74LVT_LVTH16244B v.12 |
| Modifications: | <ul style="list-style-type: none"> • Section 1 and Section 2 updated. • Type numbers 74LVT16244BDL and 74LVTH16244BDL (SOT370-1/SSOP48) removed. • Section 7: Derating values for P_{tot} total power dissipation removed. | | | |
| 74LVT_LVTH16244B v.12 | 20181019 | Product data sheet | - | 74LVT_LVTH16244B v.11 |
| Modifications: | <ul style="list-style-type: none"> • 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. • Type numbers 74LVT16244BEV (SOT702-1), 74LVT16244BBX (SOT1134-2) and 74LVTH16244BBX (SOT1134-2) removed. • Package outline drawing SOT362-1 updated | | | |
| 74LVT_LVTH16244B v.11 | 20120301 | Product data sheet | - | 74LVT_LVTH16244B v.10 |
| Modifications: | <ul style="list-style-type: none"> • For type number 74LVT16244BBX and 74LVTH16244BBX the sot code has changed to SOT1134-2. | | | |
| 74LVT_LVTH16244B v.10 | 20111122 | Product data sheet | - | 74LVT_LVTH16244B v.9 |
| Modifications: | <ul style="list-style-type: none"> • Legal pages updated. | | | |
| 74LVT_LVTH16244B v.9 | 20110620 | Product data sheet | - | 74LVT_LVTH16244B v.8 |
| 74LVT_LVTH16244B v.8 | 20100322 | Product data sheet | - | 74LVT_LVTH16244B v.7 |
| 74LVT_LVTH16244B v.7 | 20090326 | Product data sheet | - | 74LVT_LVTH16244B v.6 |
| 74LVT_LVTH16244B v.6 | 20081113 | Product data sheet | - | 74LVT_LVTH16244B v.5 |
| 74LVT_LVTH16244B v.5 | 20060321 | Product data sheet | - | 74LVT16244B v.4 |
| 74LVT16244B v.4 | 20021031 | Product specification | - | 74LVT16244B v.3 |
| 74LVT16244B v.3 | 19981007 | Product specification | - | 74LVT16244B v.2 |
| 74LVT16244B v.2 | 19980219 | Product specification | - | - |

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. |

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- [2] The term 'short data sheet' is explained in section "Definitions".
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