

74ALVC16245; 74ALVCH16245

16-bit transceiver with direction pin; 3-state

Rev. 6 — 5 August 2021

Product data sheet

1. General description

The 74ALVC16245; 74ALVCH16245 is a 16-bit transceiver with 3-state outputs. The device can be used as two 8-bit transceivers or one 16-bit transceiver. The device features two output enables (1OE and 2OE) each controlling eight outputs, and two send/receive (1DIR and 2DIR) inputs for direction control. A HIGH on nOE causes the outputs to assume a high-impedance OFF-state. 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.

The 74ALVCH16245 has an active bushold circuitry which is provided to hold unused or floating data inputs at a valid logic level. This feature eliminates the need for external pull-up or pull-down resistors.

2. Features and benefits

- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- MULTIBYTE flow-through standard pin-out architecture
- Low inductance multiple V_{CC} and GND pins for minimize noise and ground bounce
- Overvoltage tolerant inputs to 5.5 V
- Direct interface with TTL levels
- I_{OFF} circuitry provides partial Power-down mode operation
- All data inputs have bushold (74ALVCH16245 only)
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Output drive capability 50 Ω transmission lines at 85 °C
- Current drive ±24 mA at V_{CC} = 3.0 V.
- Complies with JEDEC standards:
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - HBM ANSI/ESDA/JEDEC JS-001 exceeds 2000 V
 - CDM JESD22-C101E exceeds 1000 V

3. Ordering information

Table 1. Ordering information

| Type number | Package | | | Version |
|-----------------|-------------------|---------|---|----------|
| | Temperature range | Name | Description | |
| 74ALVC16245DGG | -40 °C to +85 °C | TSSOP48 | plastic thin shrink small outline package; 48 leads; body width 6.1 mm | SOT362-1 |
| 74ALVCH16245DGG | | | | |

4. Functional diagram

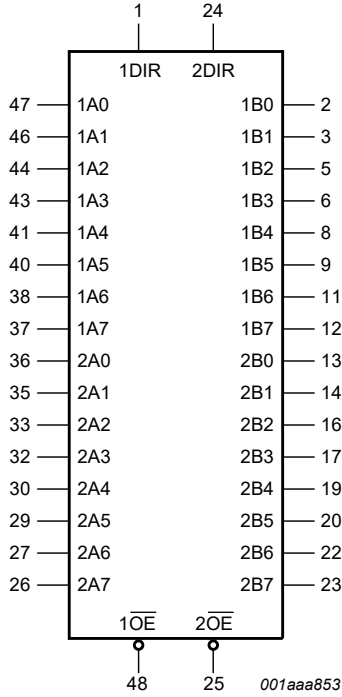


Fig. 1. Logic symbol

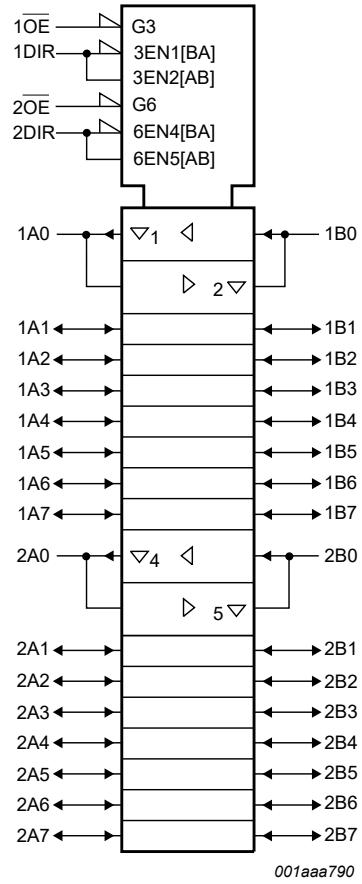


Fig. 2. IEC logic symbol

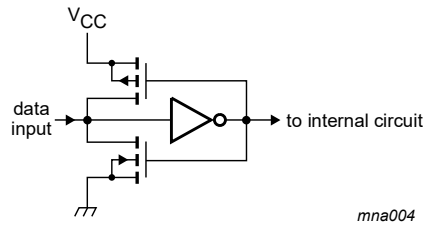


Fig. 3. Bushold circuit

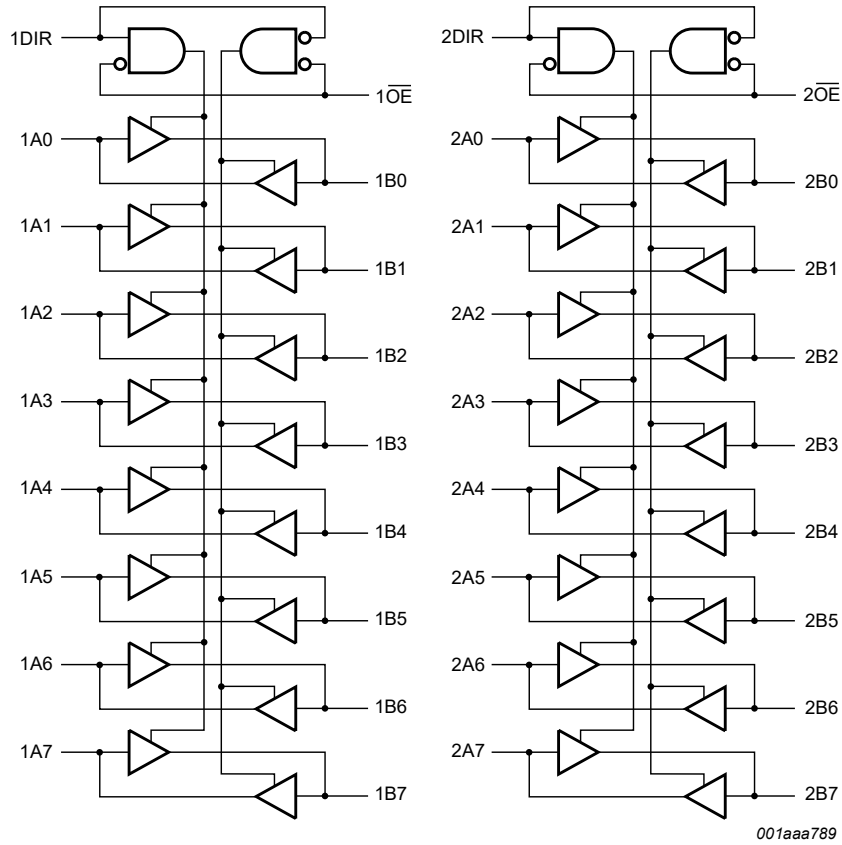


Fig. 4. Logic diagram

5. Pinning information

5.1. Pinning

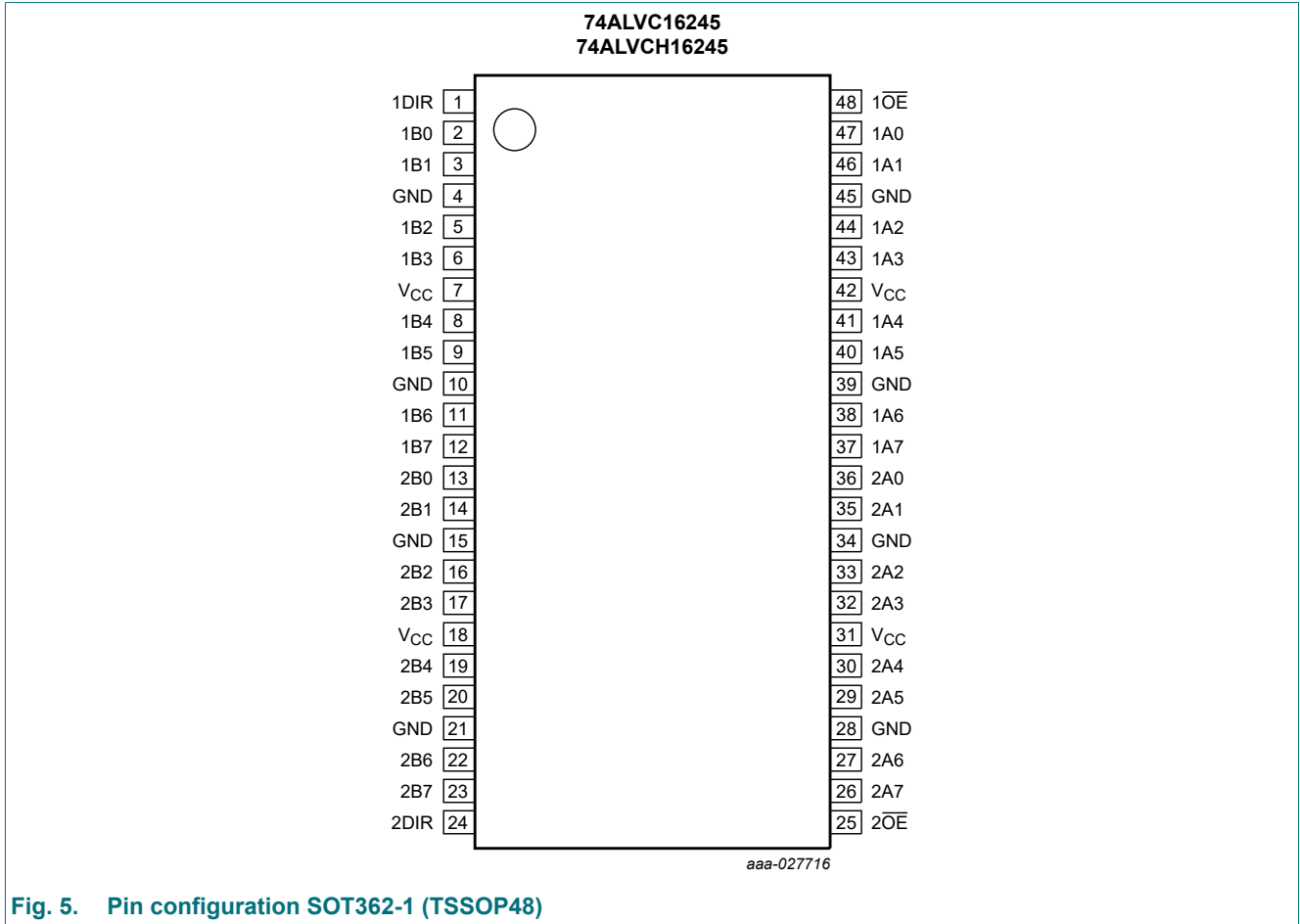


Fig. 5. Pin configuration SOT362-1 (TSSOP48)

5.2. Pin description

Table 2. Pin description

| Symbol | Pin | Description |
|--|--------------------------------|----------------------------------|
| 1DIR, 2DIR | 1, 24 | direction control inputs |
| 1B0, 1B1, 1B2, 1B3, 1B4, 1B5, 1B6, 1B7 | 2, 3, 5, 6, 8, 9, 11, 12 | data output or input |
| GND | 4, 10, 15, 21, 28, 34, 39, 45 | ground (0 V) |
| V _{CC} | 7, 18, 31, 42 | positive supply voltage |
| 2B0, 2B1, 2B2, 2B3, 2B4, 2B5, 2B6, 2B7 | 13, 14, 16, 17, 19, 20, 22, 23 | data output or input |
| 1OE, 2OE | 48, 25 | output enable input (active LOW) |
| 2A0, 2A1, 2A2, 2A3, 2A4, 2A5, 2A6, 2A7 | 36, 35, 33, 32, 30, 29, 27, 26 | data input or output |
| 1A0, 1A1, 1A2, 1A3, 1A4, 1A5, 1A6, 1A7 | 47, 46, 44, 43, 41, 40, 38, 37 | data input or output |

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 | | Input or output | |
|-------|------|------------------|------------------|
| nOE | nDIR | nAn | nBn |
| L | L | output nAn = nBn | input |
| L | H | input | output nBn = nAn |
| H | X | Z | 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 | 74ALVCH16245; data inputs [1] | -0.5 | $V_{CC} + 0.5$ | V |
| | | 74ALVC16245; data inputs [1] | -0.5 | +4.6 | V |
| | | control pins [1] | -0.5 | +4.6 | V |
| V_O | output voltage | [1] | -0.5 | $V_{CC} + 0.5$ | V |
| I_{IK} | input clamping current | $V_I < 0$ V | -50 | - | mA |
| I_{OK} | output clamping current | $V_O > V_{CC}$ or $V_O < 0$ V | - | ± 50 | mA |
| I_O | output current | $V_O = 0$ V to V_{CC} | - | ± 50 | mA |
| I_{CC} | supply current | | - | 100 | mA |
| I_{GND} | ground current | | -100 | - | mA |
| T_{stg} | storage temperature | | -65 | +150 | °C |
| P_{tot} | total power dissipation | $T_{amb} = -40$ °C to +85 °C | - | 500 | mW |

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

8. Recommended operating conditions

Table 5. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---------------------|-------------------------------------|---------------------------|-----|-----|----------|------|
| V_{CC} | supply voltage | maximum speed performance | | | | |
| | | $C_L = 30$ pF | 2.3 | - | 2.7 | V |
| | | $C_L = 50$ pF | 3.0 | - | 3.6 | V |
| | | low-voltage applications | 1.2 | - | 3.6 | V |
| V_I | input voltage | | 0 | - | V_{CC} | V |
| V_O | output voltage | | 0 | - | V_{CC} | V |
| T_{amb} | ambient temperature | | -40 | - | +85 | °C |
| $\Delta t/\Delta V$ | input transition rise and fall rate | $V_{CC} = 2.3$ V to 3.0 V | - | - | 20 | ns/V |
| | | $V_{CC} = 3.0$ V to 3.6 V | - | - | 10 | ns/V |

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_{amb} = -40 °C to +85 °C | | | | | | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 2.3 V to 2.7 V | 1.7 | 1.2 | - | V |
| | | V _{CC} = 2.7 V to 3.6 V | 2.0 | 1.5 | - | V |
| V _{IL} | LOW-level input voltage | V _{CC} = 2.3 V to 2.7 V | - | 1.2 | 0.7 | V |
| | | V _{CC} = 2.7 V to 3.6 V | - | 1.5 | 0.8 | V |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = -100 μA; V _{CC} = 2.3 V to 3.6 V | V _{CC} - 0.2 | V _{CC} | - | V |
| | | I _O = -6 mA; V _{CC} = 2.3 V | V _{CC} - 0.3 | V _{CC} - 0.08 | - | V |
| | | I _O = -12 mA; V _{CC} = 2.3 V | V _{CC} - 0.6 | V _{CC} - 0.26 | - | V |
| | | I _O = -12 mA; V _{CC} = 2.7 V | V _{CC} - 0.5 | V _{CC} - 0.14 | - | V |
| | | I _O = -12 mA; V _{CC} = 3.0 V | V _{CC} - 0.6 | V _{CC} - 0.09 | - | V |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | I _O = 100 μA; V _{CC} = 2.3 V to 3.6 V | - | GND | 0.20 | V |
| | | I _O = 6 mA; V _{CC} = 2.3 V | - | 0.07 | 0.40 | V |
| | | I _O = 12 mA; V _{CC} = 2.3 V | - | 0.15 | 0.70 | V |
| | | I _O = 12 mA; V _{CC} = 2.7 V | - | 0.14 | 0.40 | V |
| | | I _O = 24 mA; V _{CC} = 3.0 V | - | 0.27 | 0.55 | V |
| I _I | input leakage current | V _{CC} = 2.3 V to 3.6 V; V _I = V _{CC} or GND | - | 0.1 | 5 | μA |
| I _{OZ} | OFF-state output current | V _{CC} = 2.3 V to 3.6 V; V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND | - | 0.1 | 10 | μA |
| I _{CC} | supply current | V _{CC} = 2.3 V to 3.6 V; V _I = V _{CC} or GND; I _O = 0 A | - | 0.2 | 40 | μA |
| ΔI _{CC} | additional supply current | 74ALVCH16245; per data I/O pin; V _{CC} = 2.3 V to 3.6 V; V _I = V _{CC} - 0.6 V; I _O = 0 A | - | 150 | 750 | μA |
| I _{BHL} | bus hold LOW current | V _{CC} = 2.3 V; V _I = 0.7 V [2] | 45 | - | - | μA |
| | | V _{CC} = 3.0 V; V _I = 0.8 V [2] | 75 | 150 | - | μA |
| I _{BHH} | bus hold HIGH current | V _{CC} = 2.3 V; V _I = 1.7 V [2] | -45 | - | - | μA |
| | | V _{CC} = 3.0 V; V _I = 2.0 V [2] | -75 | -175 | - | μA |
| I _{BHLO} | bus hold LOW overdrive current | V _{CC} = 3.6 V [2] | 500 | - | - | μA |
| I _{BHHO} | bus hold HIGH overdrive current | V _{CC} = 3.6 V [2] | -500 | - | - | μA |
| C _I | input capacitance | | - | 4.0 | - | pF |
| C _{I/O} | input/output capacitance | | - | 8.0 | - | pF |

[1] All typical values are measured at T_{amb} = 25 °C.

[2] Valid for data inputs of bushold parts.

10. Dynamic characteristics

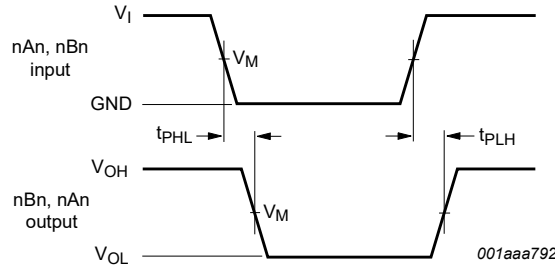
Table 7. Dynamic characteristics

At recommended operating conditions; 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 | | | | | | |
| t _{pd} | propagation delay | nAn to nBn; nBn to nAn; see Fig. 6 [2] | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.0 | 3.7 | ns |
| | | V _{CC} = 2.7 V | 1.0 | 2.1 | 3.6 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 1.9 | 3.0 | ns |
| t _{en} | enable time | n $\overline{\text{OE}}$ to nAn; n $\overline{\text{OE}}$ to nBn; see Fig. 7 [3] | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.7 | 5.7 | ns |
| | | V _{CC} = 2.7 V | 1.0 | 3.0 | 5.4 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 2.3 | 4.4 | ns |
| t _{dis} | disable time | n $\overline{\text{OE}}$ to nAn; n $\overline{\text{OE}}$ to nBn; see Fig. 7 [4] | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.2 | 5.2 | ns |
| | | V _{CC} = 2.7 V | 1.0 | 3.1 | 4.6 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 2.8 | 4.1 | ns |
| C _{PD} | power dissipation capacitance | per buffer; V _I = GND to V _{CC} [5] | | | | |
| | | outputs enabled | - | 29 | - | pF |
| | | outputs disabled | - | 5 | - | pF |

- [1] Typical values are measured at T_{amb} = 25 °C
 Typical values for V_{CC} = 2.3 V to 2.7 V are measured at V_{CC} = 2.5 V.
 Typical values for V_{CC} = 3.0 V to 3.6 V are measured at V_{CC} = 3.3 V.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL}.
- [3] t_{en} is the same as t_{PZL} and t_{PZH}.
- [4] t_{dis} is the same as t_{PLZ} and t_{PHZ}.
- [5] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$ where:
 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 = total load switching outputs;
 $\sum (C_L \times V_{CC}^2 \times f_o)$ = sum of outputs.

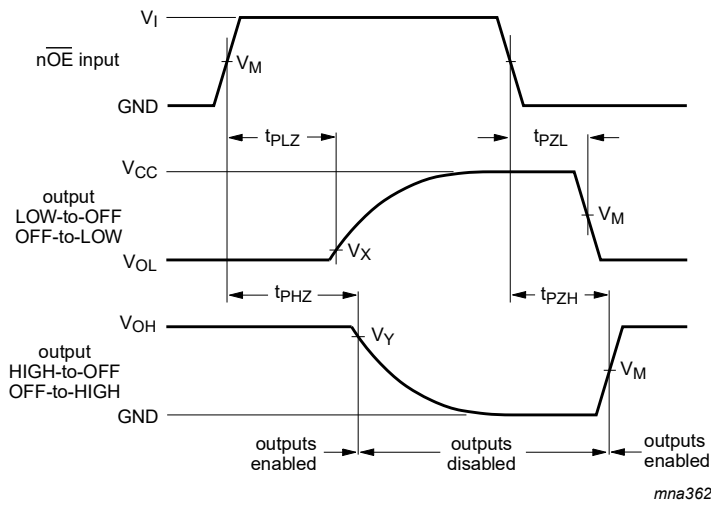
10.1. Waveforms and test circuit



Measurement points are given in [Table 8](#).

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

Fig. 6. Input (nAn, nBn) to output (nBn, nAn) propagation delay times



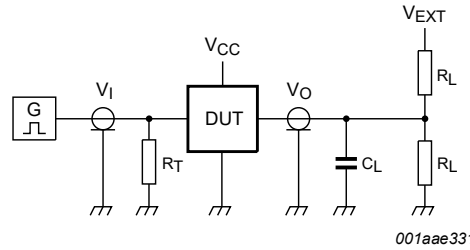
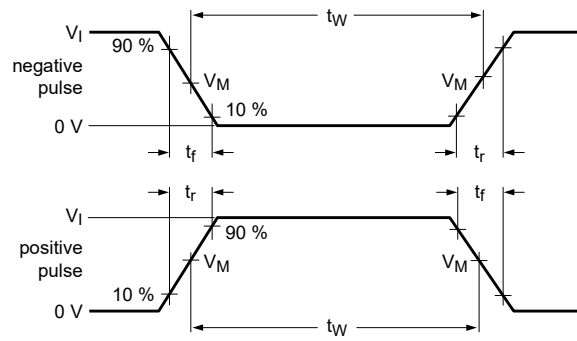
Measurement points are given in [Table 8](#).

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_M | V_M | V_X | V_Y |
| $< 2.7\text{ V}$ | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ | $V_{OL} + 0.15\text{ V}$ | $V_{OH} - 0.15\text{ V}$ |
| $\geq 2.7\text{ V}$ | 1.5 V | 1.5 V | $V_{OL} + 0.3\text{ V}$ | $V_{OH} - 0.3\text{ V}$ |



001aae331

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

Definitions test circuit:

R_L = Load resistance.

C_L = Load capacitance includes jig and probe capacitance.

R_T = Termination resistance should be equal to Z_o of pulse generator.

V_{EXT} = Test voltage for 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 | C_L | R_L | t_{PLH}, t_{PHL} | t_{PHZ}, t_{PZH} | t_{PLZ}, t_{PZL} |
| < 2.7 V | V_{CC} | ≤ 2.0 ns | 30 pF | 500 Ω | open | GND | $2 \times V_{CC}$ |
| 2.7 V to 3.6 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open | GND | $2 \times V_{CC}$ |

11. Package outline

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

SOT362-1

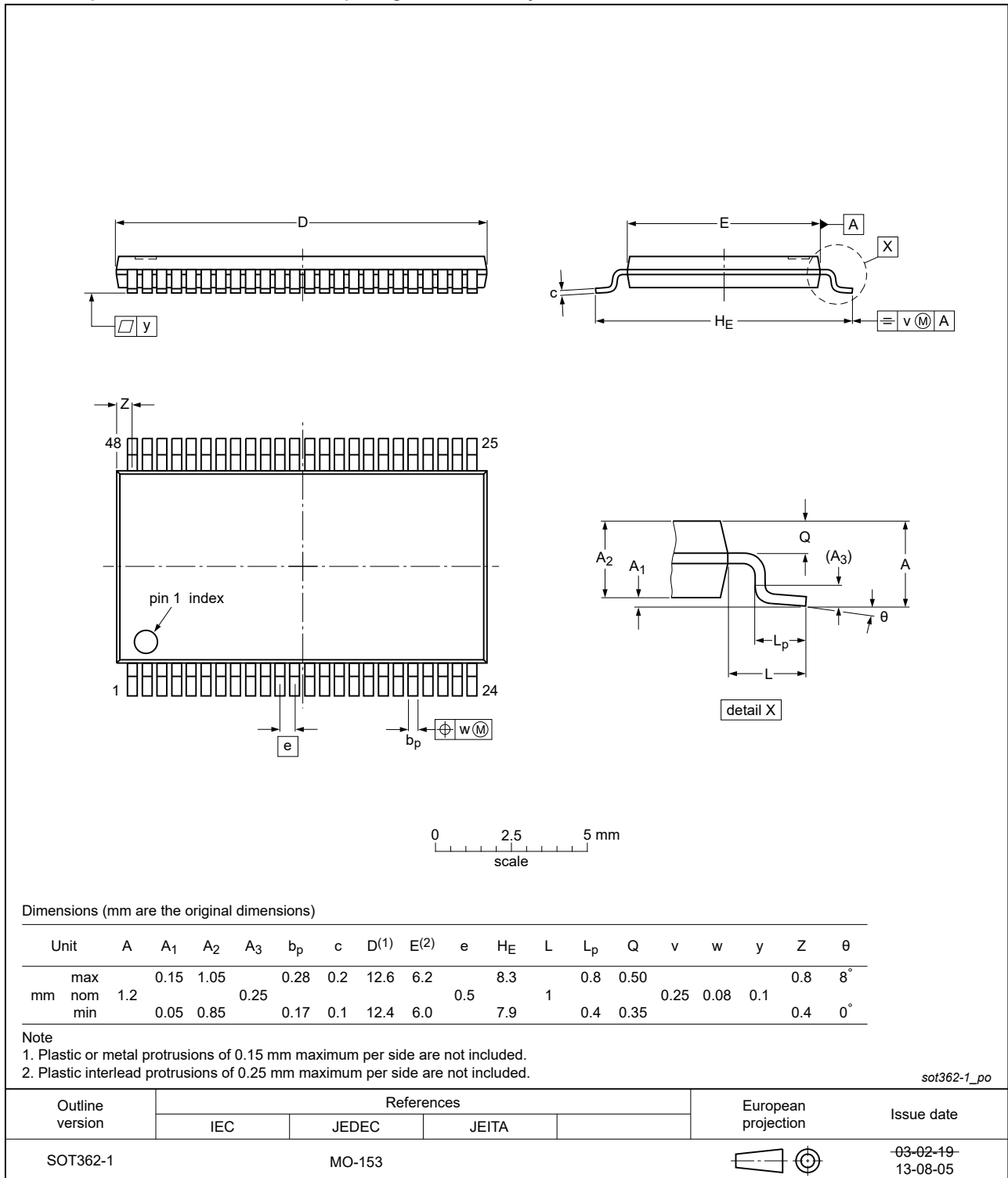


Fig. 9. Package outline SOT362-1 (TSSOP48)

12. Abbreviations

Table 10. Abbreviations

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

13. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|----------------------------------|---|---------------------------|---------------|--|
| 74ALVC_ALVCH16245 v.6 | 20210805 | Product data sheet | - | 74ALVC_ALVCH16245 v.5 |
| Modifications: | <ul style="list-style-type: none"> Type number 74ALVC16245DL (SOT370-1/SSOP48) removed. | | | |
| 74ALVC_ALVCH16245 v.5 | 20201016 | Product data sheet | - | 74ALVC_ALVCH16245 v.4 |
| Modifications: | <ul style="list-style-type: none"> Type number 74ALVCH16245DL (SOT370-1/SSOP48) removed. Section 1 and Section 2 updated. Table 4: Derating values for P_{tot} total power dissipation updated. | | | |
| 74ALVC_ALVCH16245 v.4 | 20171121 | Product data sheet | - | 74ALVC_ALVCH16245 v.3 |
| 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. | | | |
| 74ALVC_ALVCH16245 v.3 | 20040512 | Product data sheet | - | 74ALVCH16245 v.2 74ALVC16245_ 74ALVCH16245 v.1 |
| Modifications: | <ul style="list-style-type: none"> The format of this data sheet has been redesigned to comply with the current presentation and information standard of Philips Semiconductors. Section 1: General description updated. | | | |
| 74ALVCH16245 v.2 | 19980629 | Product specification | - | 74ALVCH16245 v.1 |
| 74ALVC16245_ 74ALVCH16245 v.1 | 19980325 | Product specification | - | - |
| 74ALVCH16245 v.1 | 19950102 | Preliminary specification | - | - |

14. Legal information

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| Document status [1][2] | Product status [3] | Definition |
|--------------------------------|--------------------|---|
| Objective [short] data sheet | Development | This document contains data from the objective specification for product development. |
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- [2] The term 'short data sheet' is explained in section "Definitions".
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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 | 4 |
| 5.1. Pinning..... | 4 |
| 5.2. Pin description..... | 4 |
| 6. Functional description | 5 |
| 7. Limiting values | 5 |
| 8. Recommended operating conditions | 5 |
| 9. Static characteristics | 6 |
| 10. Dynamic characteristics | 7 |
| 10.1. Waveforms and test circuit..... | 8 |
| 11. Package outline | 10 |
| 12. Abbreviations | 11 |
| 13. Revision history | 11 |
| 14. Legal information | 12 |

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