



**THE DATASHEET OF
74LVC4245APW,112**



74LVC4245A

Octal dual supply translating transceiver; 3-state

Rev. 14 — 1 September 2023

Product data sheet

1. General description

The 74LVC4245A is an octal dual supply translating transceiver featuring 3-state bus compatible outputs in both send and receive directions. It is designed to interface between a 3 V and 5 V bus in a mixed 3 V and 5 V supply environment. The device features an output enable input (\overline{OE}) and a send/receive input (DIR) for direction control. A HIGH on \overline{OE} causes the outputs to assume a high-impedance OFF-state, effectively isolating the buses. In suspend mode, when either supply is zero, there is no current path between supplies. $V_{CCA} \geq V_{CCB}$, except in suspend mode. Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

2. Features and benefits

- 5 V tolerant inputs/outputs, for interfacing with 5 V logic
- Wide supply voltage range:
 - 3 V bus ($V_{CC(B)}$): 1.5 V to 3.6 V
 - 5 V bus ($V_{CC(A)}$): 1.5 V to 5.5 V
- CMOS low-power consumption
- TTL interface capability at 3.3 V
- Overvoltage tolerant control inputs to 5.5 V
- High-impedance when $V_{CC(A)} = 0$ V
- Complies with JEDEC standard no. JESD8B/JESD36
- Latch-up performance meets requirements of JESD78 Class 1
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 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 | | | Version |
|------------------------------|-------------------|----------|--|--------------------------|
| | Temperature range | Name | Description | |
| 74LVC4245AD | -40 °C to +125 °C | SO24 | plastic small outline package; 24 leads; body width 7.5 mm | SOT137-1 |
| 74LVC4245APW | -40 °C to +125 °C | TSSOP24 | plastic thin shrink small outline package; 24 leads; body width 4.4 mm | SOT355-1 |
| 74LVC4245ABQ | -40 °C to +125 °C | DHVQFN24 | plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 24 terminals; body 3.5 × 5.5 × 0.85 mm | SOT815-1 |

4. Functional diagram

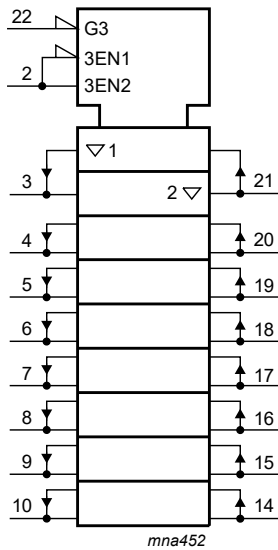


Fig. 1. IEC Logic symbol

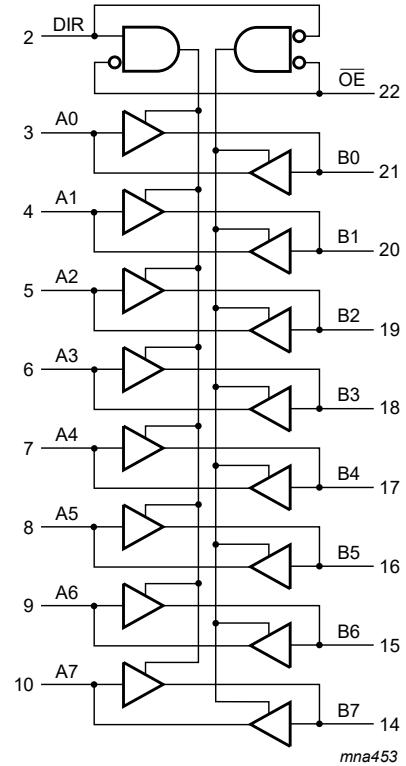
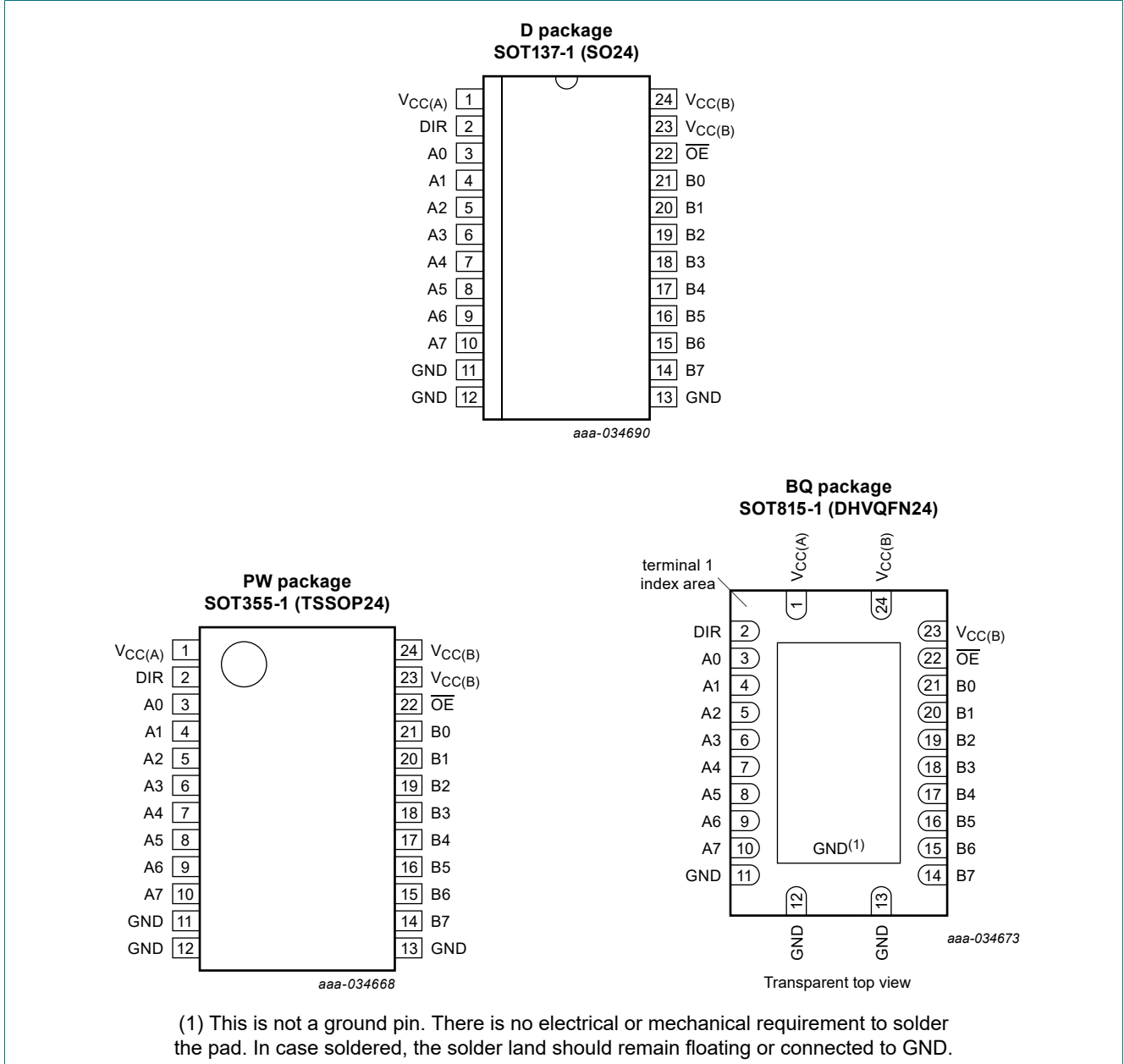


Fig. 2. Logic diagram

5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

| Symbol | Pin | Description |
|--------------------------------|--------------------------------|----------------------------------|
| $V_{CC(A)}$ | 1 | supply voltage (5 V bus) |
| $V_{CC(B)}$ | 23, 24 | supply voltage (3 V bus) |
| GND | 11, 12, 13 | ground (0 V) |
| DIR | 2 | direction control |
| A0, A1, A2, A3, A4, A5, A6, A7 | 3, 4, 5, 6, 7, 8, 9, 10 | data input or output |
| B0, B1, B2, B3, B4, B5, B6, B7 | 21, 20, 19, 18, 17, 16, 15, 14 | data input or output |
| \overline{OE} | 22 | output enable input (active LOW) |

6. Functional description

Table 3. Functional table

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

| Input | | Input/output | |
|-----------------|-----|--------------|-------|
| \overline{OE} | DIR | An | Bn |
| L | L | A = B | input |
| L | H | input | B = A |
| 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 |
|-------------|-------------------------|--------------------------------|----------|----------------|------|
| $V_{CC(A)}$ | supply voltage A | | -0.5 | +6.5 | V |
| $V_{CC(B)}$ | supply voltage B | | -0.5 | +4.6 | V |
| I_{IK} | input clamping current | $V_I < 0$ V | -50 | - | mA |
| V_I | input voltage | | [1] -0.5 | +6.5 | V |
| I_{OK} | output clamping current | $V_O > V_{CCO}$ or $V_O < 0$ V | [2] - | ± 50 | mA |
| V_O | output voltage | output HIGH or LOW state | [1] -0.5 | $V_{CC} + 0.5$ | V |
| | | output 3-state | [1] -0.5 | +6.5 | V |
| I_O | output current | $V_O = 0$ V to V_{CCO} | [2] - | ± 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 +125 °C | [3] - | 500 | mW |

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

[2] V_{CCO} is the supply voltage associated with the output.

[3] For SOT137-1 (SO24) package: P_{tot} derates linearly with 16.2 mW/K above 119 °C.

For SOT355-1 (TSSOP24) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C.

For SOT815-1 (DHVQFN24) package: P_{tot} derates linearly with 15.0 mW/K above 117 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---------------------|-------------------------------------|--|-----|-----|----------|------|
| $V_{CC(A)}$ | supply voltage A | $V_{CC(A)} \geq V_{CC(B)}$; see Fig. 3 for maximum speed performance | 1.5 | - | 5.5 | V |
| $V_{CC(B)}$ | supply voltage B | $V_{CC(A)} \geq V_{CC(B)}$; see Fig. 3 for low-voltage applications | 1.5 | - | 3.6 | V |
| V_I | input voltage | for control inputs | 0 | - | 5.5 | V |
| V_O | 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 |
| $\Delta t/\Delta V$ | input transition rise and fall rate | $V_{CC(B)} = 2.7\text{ V to }3.0\text{ V}$ | - | - | 20 | ns/V |
| | | $V_{CC(B)} = 3.0\text{ V to }3.6\text{ V}$ | - | - | 10 | ns/V |
| | | $V_{CC(A)} = 3.0\text{ V to }4.5\text{ V}$ | - | - | 20 | ns/V |
| | | $V_{CC(A)} = 4.5\text{ V to }5.5\text{ V}$ | - | - | 10 | ns/V |

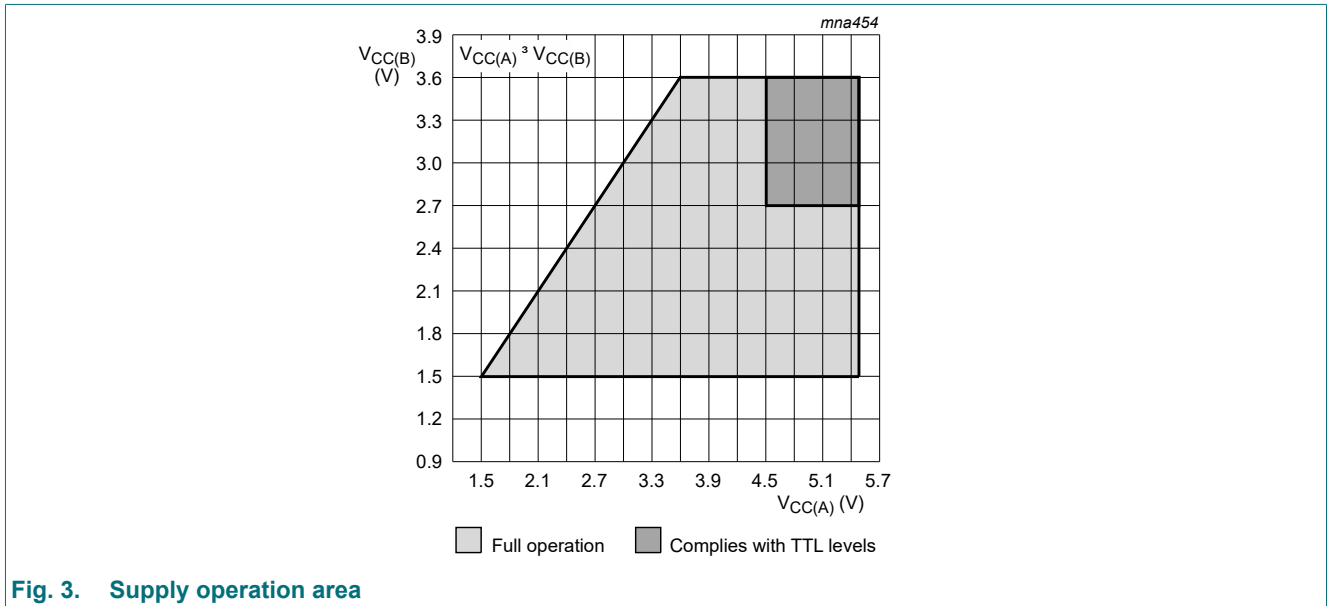


Fig. 3. Supply operation area

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(B)} = 2.7 V to 3.6 V | 2.0 | - | - | V |
| | | V _{CC(A)} = 4.5 V to 5.5 V | 2.0 | - | - | V |
| V _{IL} | LOW-level input voltage | V _{CC(B)} = 2.7 V to 3.6 V | - | - | 0.8 | V |
| | | V _{CC(A)} = 4.5 V to 5.5 V | - | - | 0.8 | V |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | V _{CC(B)} = 2.7 V to 3.6 V; I _O = -100 μA | V _{CC(B)} - 0.2 | V _{CC(B)} | - | V |
| | | V _{CC(B)} = 2.7 V; I _O = -12 mA | V _{CC(B)} - 0.5 | - | - | V |
| | | V _{CC(B)} = 3.0 V; I _O = -24 mA | V _{CC(B)} - 0.8 | - | - | V |
| | | V _{CC(A)} = 4.5 V to 5.5 V; I _O = -100 μA | V _{CC(A)} - 0.2 | V _{CC(A)} | - | V |
| | | V _{CC(A)} = 4.5 V; I _O = -12 mA | V _{CC(A)} - 0.5 | - | - | V |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | V _{CC(B)} = 2.7 V to 3.6 V; I _O = 100 μA | - | - | 0.20 | V |
| | | V _{CC(B)} = 2.7 V; I _O = 12 mA | - | - | 0.40 | V |
| | | V _{CC(B)} = 3.0 V; I _O = 24 mA | - | - | 0.55 | V |
| | | V _{CC(A)} = 4.5 V to 5.5 V; I _O = 100 μA | - | - | 0.20 | V |
| | | V _{CC(A)} = 4.5 V; I _O = 12 mA | - | - | 0.40 | V |
| I _I | input leakage current | V _I = 5.5 V or GND | - | ±0.1 | ±5 | μA |
| | | | | | | |
| I _{OZ} | OFF-state output current | V _I = V _{IH} or V _{IL} [2] | | | | |
| | | V _{CC(B)} = 3.6 V; V _O = V _{CC(B)} or GND | - | ±0.1 | ±5 | μA |
| | | V _{CC(A)} = 5.5 V; V _O = V _{CC(A)} or GND | - | ±0.1 | ±5 | μA |
| I _{CC} | supply current | I _O = 0 A | | | | |
| | | V _{CC(B)} = 3.6 V; other inputs at V _{CC(B)} or GND | - | 0.1 | 10 | μA |
| | | V _{CC(A)} = 5.5 V; other inputs at V _{CC(A)} or GND | - | 0.1 | 10 | μA |
| ΔI _{CC} | additional supply current | per pin; I _O = 0 A | | | | |
| | | V _{CC(B)} = 2.7 V to 3.6 V; V _I = V _{CC(B)} - 0.6 V; other inputs at V _{CC(B)} or GND | - | 5 | 500 | μA |
| | | V _{CC(A)} = 4.5 V to 5.5 V; V _I = V _{CC(A)} - 0.6 V; other inputs at V _{CC(A)} or GND | - | 5 | 500 | μA |
| C _I | input capacitance | | - | 4.0 | - | pF |
| C _{I/O} | input/output capacitance | An and Bn | - | 5.0 | - | pF |

Octal dual supply translating transceiver; 3-state

| Symbol | Parameter | Conditions | Min | Typ [1] | Max | Unit |
|--|---------------------------|--|---------------------------|---------|------|------|
| T_{amb} = -40 °C to +125 °C | | | | | | |
| V _{IH} | HIGH-level input voltage | V _{CC(B)} = 2.7 V to 3.6 V | 2.0 | - | - | V |
| | | V _{CC(A)} = 4.5 V to 5.5 V | 2.0 | - | - | V |
| V _{IL} | LOW-level input voltage | V _{CC(B)} = 2.7 V to 3.6 V | - | - | 0.8 | V |
| | | V _{CC(A)} = 4.5 V to 5.5 V | - | - | 0.8 | V |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | V _{CC(B)} = 2.7 V to 3.6 V; I _O = -100 μA | V _{CC(B)} - 0.3 | - | - | V |
| | | V _{CC(B)} = 2.7 V; I _O = -12 mA | V _{CC(B)} - 0.65 | - | - | V |
| | | V _{CC(B)} = 3.0 V; I _O = -24 mA | V _{CC(B)} - 1.0 | - | - | V |
| | | V _{CC(A)} = 4.5 V to 5.5 V; I _O = -100 μA | V _{CC(A)} - 0.3 | - | - | V |
| | | V _{CC(A)} = 4.5 V; I _O = -12 mA | V _{CC(A)} - 0.65 | - | - | V |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | |
| | | V _{CC(B)} = 2.7 V to 3.6 V; I _O = 100 μA | - | - | 0.30 | V |
| | | V _{CC(B)} = 2.7 V; I _O = 12 mA | - | - | 0.60 | V |
| | | V _{CC(B)} = 3.0 V; I _O = 24 mA | - | - | 0.80 | V |
| | | V _{CC(A)} = 4.5 V to 5.5 V; I _O = 100 μA | - | - | 0.30 | V |
| | | V _{CC(A)} = 4.5 V; I _O = 12 mA | - | - | 0.60 | V |
| I _I | input leakage current | V _I = 5.5 V or GND | - | - | ±20 | μA |
| | | | | | | |
| I _{OZ} | OFF-state output current | V _I = V _{IH} or V _{IL} [2] | | | | |
| | | V _{CC(B)} = 3.6 V; V _O = V _{CC(B)} or GND | - | - | ±20 | μA |
| | | V _{CC(A)} = 5.5 V; V _O = V _{CC(A)} or GND | - | - | ±20 | μA |
| I _{CC} | supply current | I _O = 0 A | | | | |
| | | V _{CC(B)} = 3.6 V; other inputs at V _{CC(B)} or GND | - | - | 40 | μA |
| | | V _{CC(A)} = 5.5 V; other inputs at V _{CC(A)} or GND | - | - | 40 | μA |
| ΔI _{CC} | additional supply current | per pin; I _O = 0 A | | | | |
| | | V _{CC(B)} = 2.7 V to 3.6 V; V _I = V _{CC(B)} - 0.6 V; other inputs at V _{CC(B)} or GND | - | - | 5000 | μA |
| | | V _{CC(A)} = 4.5 V to 5.5 V; V _I = V _{CC(A)} - 0.6 V; other inputs at V _{CC(A)} or GND | - | - | 5000 | μA |

[1] All typical values are measured at V_{CC(A)} = 5.0 V, V_{CC(B)} = 3.3 V and T_{amb} = 25 °C.

[2] For transceivers, the parameter I_{OZ} includes the input leakage current.

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). $V_{CC(A)} = 4.5\text{ V to }5.5\text{ V}$; $t_r = t_f \leq 2.5\text{ ns}$. For test circuit see Fig. 6.

| Symbol | Parameter | Conditions | $V_{CC(B)}$ | -40 °C to +85 °C | | | -40 °C to +125 °C | | Unit |
|-------------|-------------------------------------|--|----------------|------------------|---------|-----|-------------------|------|------|
| | | | | Min | Typ [1] | Max | Min | Max | |
| t_{PHL} | HIGH to LOW propagation delay | An to Bn; see Fig. 4 | 2.7 V | 1.0 | 3.6 | 6.3 | 1.0 | 8.0 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 3.3 | 6.3 | 1.0 | 8.0 | ns |
| | | Bn to An; see Fig. 4 | 2.7 V | 1.0 | 3.4 | 6.1 | 1.0 | 8.0 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 3.4 | 6.1 | 1.0 | 8.0 | ns |
| t_{PLH} | LOW to HIGH propagation delay | An to Bn; see Fig. 4 | 2.7 V | 1.0 | 3.3 | 6.7 | 1.0 | 8.5 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 2.8 | 6.5 | 1.0 | 8.5 | ns |
| | | Bn to An; see Fig. 4 | 2.7 V | 1.0 | 3.0 | 5.0 | 1.0 | 6.5 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 3.0 | 5.0 | 1.0 | 6.5 | ns |
| t_{PZL} | OFF-state to LOW propagation delay | \overline{OE} to An; see Fig. 5 | 2.7 V | 1.0 | 4.5 | 9.0 | 1.0 | 11.5 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 4.5 | 9.0 | 1.0 | 11.5 | ns |
| | | \overline{OE} to Bn; see Fig. 5 | 2.7 V | 1.0 | 4.4 | 8.7 | 1.0 | 11.0 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 3.8 | 8.1 | 1.0 | 10.5 | ns |
| t_{PZH} | OFF-state to HIGH propagation delay | \overline{OE} to An; see Fig. 5 | 2.7 V | 1.0 | 4.5 | 8.1 | 1.0 | 10.5 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 4.5 | 8.1 | 1.0 | 10.5 | ns |
| | | \overline{OE} to Bn; see Fig. 5 | 2.7 V | 1.0 | 4.3 | 8.7 | 1.0 | 11.0 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 3.2 | 8.1 | 1.0 | 10.5 | ns |
| t_{PLZ} | LOW to OFF-state propagation delay | \overline{OE} to An; see Fig. 5 | 2.7 V | 1.0 | 2.9 | 7.0 | 1.0 | 9.0 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 2.9 | 7.0 | 1.0 | 9.0 | ns |
| | | \overline{OE} to Bn; see Fig. 5 | 2.7 V | 1.0 | 3.9 | 7.7 | 1.0 | 10.0 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 3.5 | 7.7 | 1.0 | 10.0 | ns |
| t_{PHZ} | HIGH to OFF-state propagation delay | \overline{OE} to An; see Fig. 5 | 2.7 V | 1.0 | 2.8 | 5.8 | 1.0 | 7.5 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 2.8 | 5.8 | 1.0 | 7.5 | ns |
| | | \overline{OE} to Bn; see Fig. 5 | 2.7 V | 1.0 | 3.3 | 7.8 | 1.0 | 10.0 | ns |
| | | | 3.0 V to 3.6 V | 1.0 | 2.9 | 7.8 | 1.0 | 10.0 | ns |
| $t_{sk(o)}$ | output skew time | | [2] | - | - | 1.0 | - | 1.5 | ns |
| C_{PD} | power dissipation capacitance | 5 V bus: Bn to An; $V_I = \text{GND to } V_{CC(A)}$; $V_{CC(A)} = 5.0\text{ V}$ | [3] | | | | | | |
| | | outputs enabled | - | - | 17 | - | - | - | pF |
| | | outputs disabled | - | - | 5 | - | - | - | pF |
| | | 3 V bus: An to Bn; $V_I = \text{GND to } V_{CC(B)}$; $V_{CC(B)} = 3.3\text{ V}$ | [3] | | | | | | |
| | | outputs enabled | - | - | 17 | - | - | - | pF |
| | outputs disabled | - | - | 5 | - | - | - | pF | |

[1] Typical values are measured at $T_{amb} = 25\text{ °C}$, $V_{CC(A)} = 5.0\text{ V}$, and $V_{CC(B)} = 2.7\text{ V}$ and 3.3 V respectively.

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

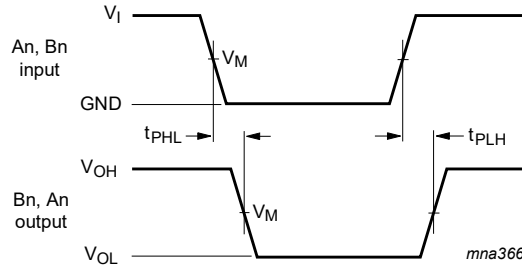
[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$ where:

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

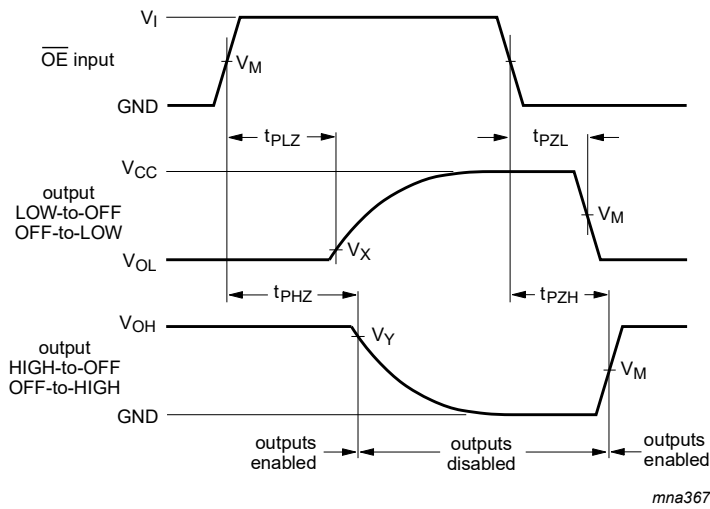
10.1. Waveforms and test circuit



Measurement point are given in Table 8.

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

Fig. 4. Input (An, Bn) to output (Bn, An) propagation delays



Measurement point are given in Table 8.

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

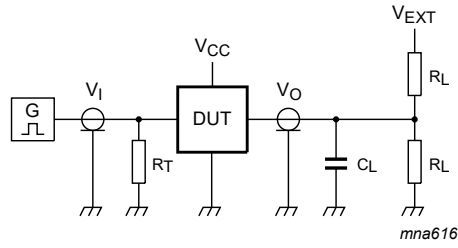
Fig. 5. 3-state enable and disable times

Table 8. Measurement points

| Supply voltage | | Input | | Output | | |
|---------------------|--------------------------------|----------------|----------------|----------------|-------------------------|-------------------------|
| $V_{CC(A)}$ | $V_{CC(B)}$ | V_M [1] | V_I [1] | V_M [2] | V_X | V_Y |
| $\leq 2.7\text{ V}$ | $\leq 2.7\text{ V}$ | $0.5 V_{CCI}$ | V_{CCI} | $0.5 V_{CCO}$ | - | - |
| - | $2.7\text{ V to }3.6\text{ V}$ | 1.5 V | 2.7 V | 1.5 V | - | - |
| $\geq 4.5\text{ V}$ | - | $0.5 V_{CCI}$ | 3.0 V | $0.5 V_{CCO}$ | - | - |
| - | $\geq 2.7\text{ V}$ | - | V_{CCI} | - | $V_{OL} + 0.3\text{ V}$ | $V_{OH} - 0.3\text{ V}$ |

[1] V_{CCI} is the supply voltage associated with the data input port.

[2] V_{CCO} is the supply voltage associated with the data output port.



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_o of the pulse generator.

Fig. 6. Test circuit for measuring switching times

Table 9. Test data

| Supply voltage | | Input | Load | | V_{EXT} | | |
|----------------|----------------|-----------|-------|--------------|--------------------|--------------------|------------------------|
| $V_{CC(A)}$ | $V_{CC(B)}$ | V_I [1] | C_L | R_L | t_{PLH}, t_{PHL} | t_{PZH}, t_{PHZ} | t_{PZL}, t_{PLZ} [2] |
| < 2.7 V | < 2.7 V | V_{CCI} | 50 pF | 500 Ω | open | GND | $2 \times V_{CCO}$ |
| - | 2.7 V to 3.6 V | 2.7 V | 50 pF | 500 Ω | open | GND | $2 \times V_{CCO}$ |
| 4.5 V to 5.5 V | - | 3.0 V | 50 pF | 500 Ω | open | GND | $2 \times V_{CCO}$ |

[1] V_{CCI} is the supply voltage associated with the data input port.

[2] V_{CCO} is the supply voltage associated with the output port.

11. Package outline

SO24: plastic small outline package; 24 leads; body width 7.5 mm

SOT137-1

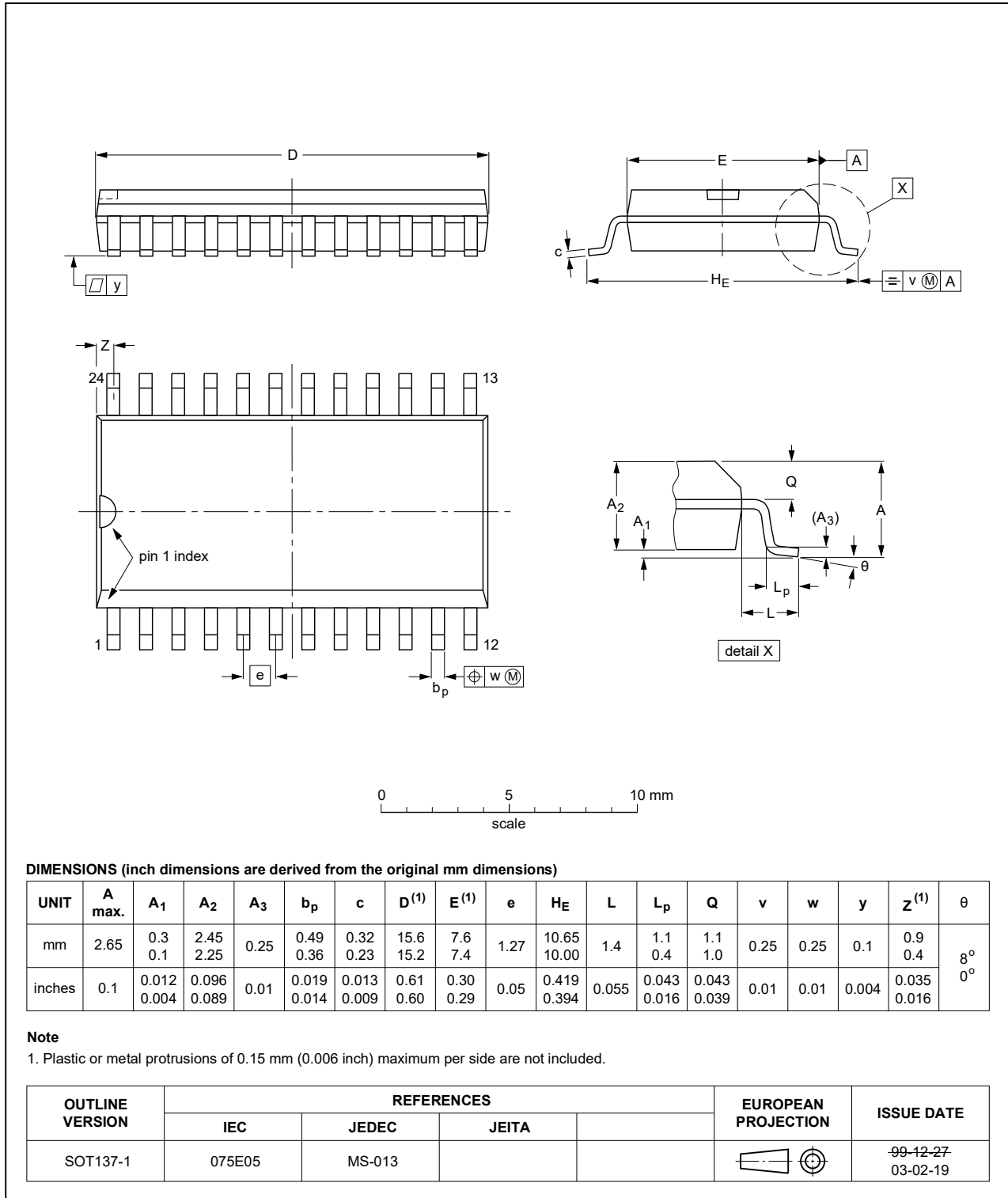


Fig. 7. Package outline SOT137-1 (SO24)

TSSOP24: plastic thin shrink small outline package; 24 leads; body width 4.4 mm

SOT355-1

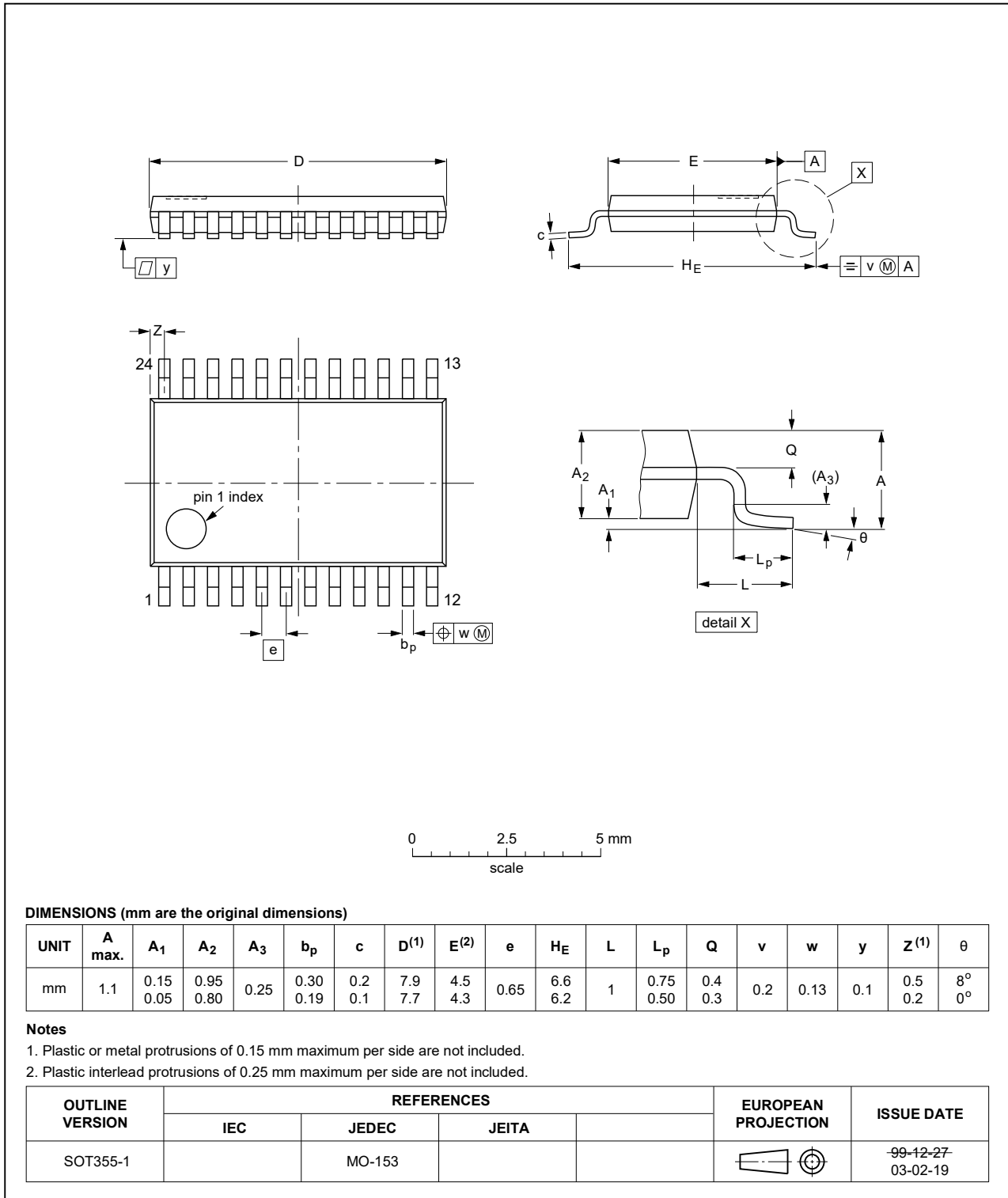


Fig. 8. Package outline SOT355-1 (TSSOP24)

DHVQFN24: plastic dual in-line compatible thermal enhanced very thin quad flat package;
no leads; 24 terminals; body 3.5 x 5.5 x 0.85 mm

SOT815-1

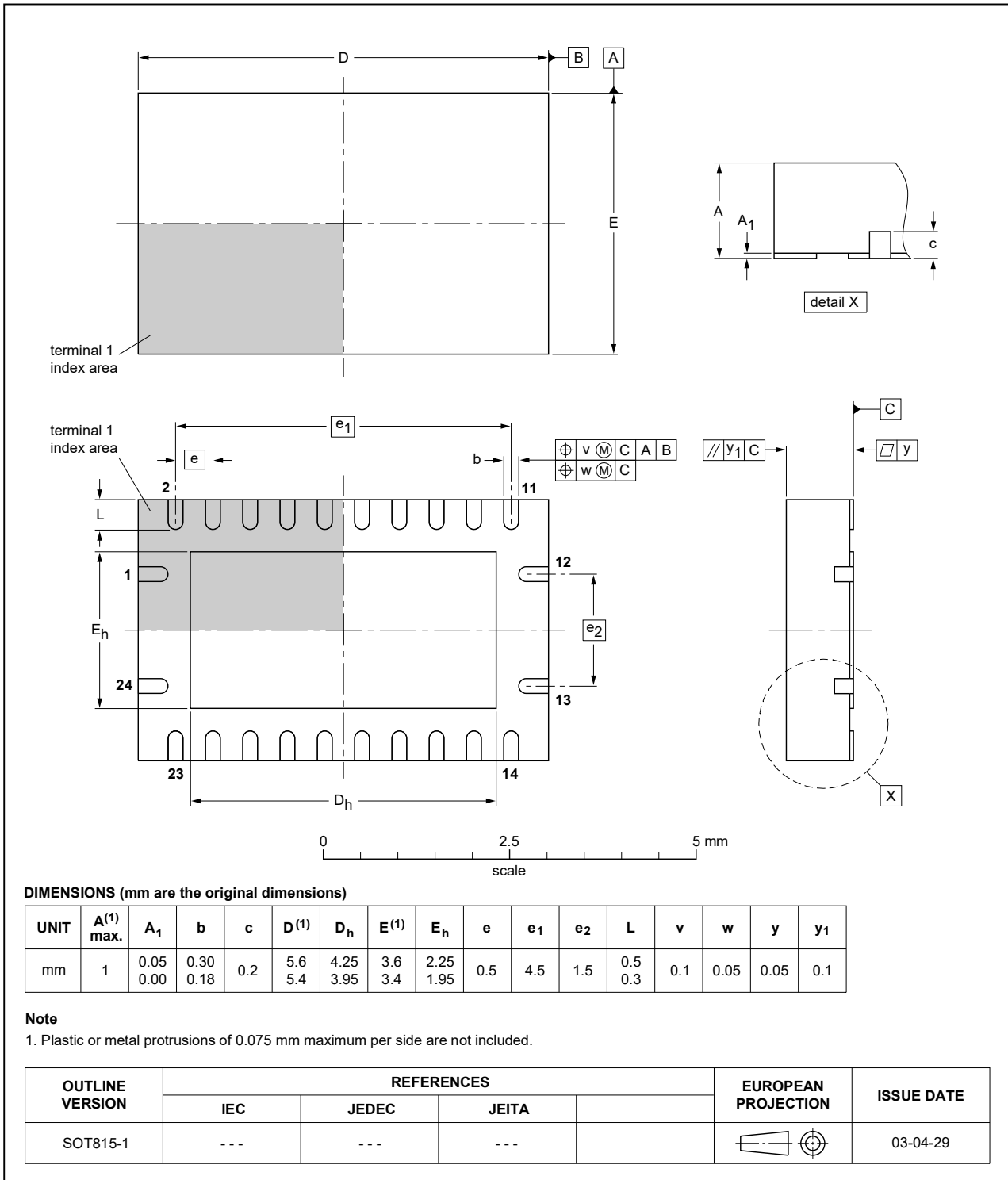


Fig. 9. Package outline SOT815-1 (DHVQFN24)

12. Abbreviations

Table 10. Abbreviations

| Acronym | Description |
|---------|---|
| 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 |
|-----------------|--|-----------------------|---------------|-----------------|
| 74LVC4245A v.14 | 20230901 | Product data sheet | - | 74LVC4245A v.13 |
| Modifications: | <ul style="list-style-type: none"> Section 2: ESD specification updated according to the latest JEDEC standard. | | | |
| 74LVC4245A v.13 | 20210827 | Product data sheet | - | 74LVC4245A v.12 |
| Modifications: | <ul style="list-style-type: none"> Type number 74LVC4245ADB (SOT340-1/SSOP24) removed. | | | |
| 74LVC4245A v.12 | 20210412 | Product data sheet | - | 74LVC4245A v.11 |
| Modifications: | <ul style="list-style-type: none"> Section 9: ΔI_{CC} conditions have changed. | | | |
| 74LVC4245A v.11 | 20200922 | Product data sheet | - | 74LVC4245A v.10 |
| 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. Section 1 updated. Table 4: Derating values for P_{tot} total power dissipation updated. Measurement points related to Fig. 4 and Fig. 5 are given in Table 8. | | | |
| 74LVC4245A v.10 | 20121218 | Product data sheet | - | 74LVC4245A v.9 |
| Modifications: | <ul style="list-style-type: none"> $V_{CC(A)}$ and $V_{CC(B)}$ changed into $V_{CC(A)}$ and $V_{CC(B)}$ (errata) | | | |
| 74LVC4245A v.9 | 20121120 | Product data sheet | - | 74LVC4245A v.8 |
| Modifications: | <ul style="list-style-type: none"> Section 5.1: Pin configuration drawing corrected for DHVQFN24 package | | | |
| 74LVC4245A v.8 | 20111122 | Product data sheet | - | 74LVC4245A v.7 |
| 74LVC4245A v.7 | 20110812 | Product data sheet | - | 74LVC4245A v.6 |
| 74LVC4245A v.6 | 20080118 | Product data sheet | - | 74LVC4245A v.5 |
| 74LVC4245A v.5 | 20040330 | Product specification | - | 74LVC4245A v.4 |
| 74LVC4245A v.4 | 20040211 | Product specification | - | 74LVC4245A v.3 |
| 74LVC4245A v.3 | 19990615 | Product specification | - | 74LVC4245A v.2 |
| 74LVC4245A v.2 | 19980729 | Product specification | - | 74LVC4245A v.1 |
| 74LVC4245A v.1 | 19980729 | Product specification | - | - |

14. Legal information

Data sheet status

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