

74LV1T34

Single supply translating buffer

Rev. 1 — 28 November 2017

Product data sheet

1 General description

The 74LV1T34 is a single, level translating buffer. The low threshold inputs support 1.8 V input logic at $V_{CC} = 3.3$ V and can be used in 1.8 V to 3.3 V level up translation. In addition, the 5 V tolerant input pins enable level down translation (3.3 V to 2.5 V output at $V_{CC} = 2.5$ V). The output level is referenced to the supply voltage and supports 1.8 V, 2.5 V, 3.3 V and 5.0 V CMOS levels. The wide V_{CC} range permits the generation of output levels to connect to controllers or processors.

2 Features and benefits

- Single supply voltage translator at 1.8 V, 2.5 V, 3.3 V and 5.0 V
- Up translation
 - 1.2 V to 1.8 V at $V_{CC} = 1.8$ V
 - 1.5 V to 2.5 V at $V_{CC} = 2.5$ V
 - 1.8 V to 3.3 V at $V_{CC} = 3.3$ V
 - 3.3 V to 5.0 V at $V_{CC} = 5.0$ V
- Down translation
 - 3.3 V to 1.8 V at $V_{CC} = 1.8$ V
 - 3.3 V to 2.5 V at $V_{CC} = 2.5$ V
 - 5.0 V to 3.3 V at $V_{CC} = 3.3$ V
- 5 V tolerant inputs
- Latch-up performance exceeds 250 mA per JESD 78 Class II
- ESD protection:
 - HBM ANSI/ESDA/JEDEC JS-001 Class 2 exceeds 2 kV
 - CDM JESD22-C101F exceeds 1 kV
- Specified from -40 °C to $+85$ °C and from -40 °C to $+125$ °C

3 Applications

- Portable applications
- PC and notebooks
- Automotive
- Industrial controller
- Telecom

4 Ordering information

Table 1. Ordering information

| Type number | Package | | | |
|-------------|-------------------|--------|--|----------|
| | Temperature range | Name | Description | Version |
| 74LV1T34GW | -40 °C to +125 °C | TSSOP5 | plastic thin shrink small outline package; 5 leads; body width 1.25 mm | SOT353-1 |
| 74LV1T34GX | -40 °C to +125 °C | X2SON5 | plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 X 0.8 X 0.35 mm | SOT1226 |

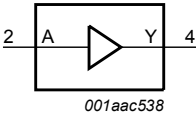
5 Marking

Table 2. Marking

| Type number | Marking code ^[1] |
|-------------|-----------------------------|
| 74LV1T34GW | SQ |
| 74LV1T34GX | SQ |

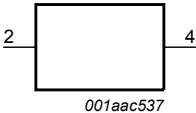
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

6 Functional diagram



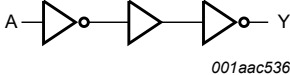
001aac538

Figure 1. Logic symbol



001aac537

Figure 2. IEC logic symbol

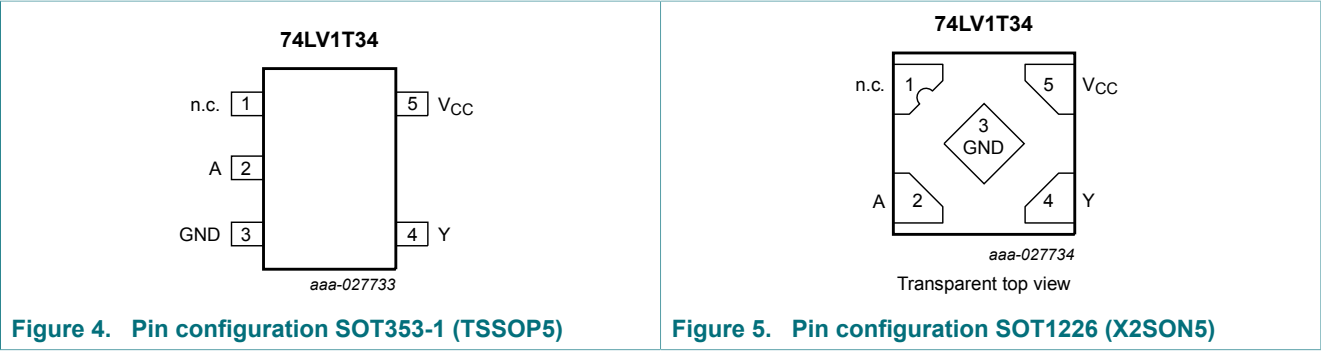


001aac536

Figure 3. Logic diagram

7 Pinning information

7.1 Pinning



7.2 Pin description

Table 3. Pin description

| Symbol | Pin | Description |
|-----------------|-----|----------------|
| n.c. | 1 | not connected |
| A | 2 | data input |
| GND | 3 | ground (0 V) |
| Y | 4 | data output |
| V _{CC} | 5 | supply voltage |

8 Functional description

Table 4. Function table ^[1]

| Input | Output |
|-------|--------|
| A | Y |
| L | L |
| H | H |

[1] H = HIGH voltage level; L = LOW voltage level

9 Limiting values

Table 5. 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 | +7.0 | V |
| V_I | input voltage | [1] | -0.5 | +7.0 | V |
| V_O | output voltage | output HIGH or LOW state [2] [3] | -0.5 | $V_{CC} + 0.5$ | V |
| | | output in power-off state [2] | -0.5 | 4.6 | V |
| I_{IK} | input clamping current | $V_I < 0$ V | -20 | - | mA |
| I_{OK} | output clamping current | $V_O < 0$ V or $V_O > V_{CC}$ | - | ± 20 | mA |
| I_O | output current | $V_O = 0$ V to V_{CC} | - | ± 25 | mA |
| I_{CC} | supply current | | - | 50 | mA |
| I_{GND} | ground current | | -50 | - | mA |
| T_{stg} | storage temperature | | -65 | +150 | °C |
| P_{tot} | total power dissipation | $T_{amb} = -40$ °C to +125 °C [4] | - | 250 | mW |

[1] If the input current ratings are observed, the minimum input voltage ratings may be exceeded.

[2] If the output current ratings are observed, the output voltage ratings may be exceeded.

[3] This value is limited to 7 V maximum.

[4] For TSSOP5 packages: above 75 °C the value of P_{tot} derates linearly with 3.3 mW/K.
For X2SON5 package: above 70 °C the value of P_{tot} derates linearly with 3.1 mW/K.

10 Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---------------------|-------------------------------------|---------------------------|-----|-----|----------|------|
| V_{CC} | supply voltage | | 1.6 | 5.0 | 5.5 | V |
| V_I | input voltage | | 0 | - | 5.5 | V |
| V_O | output voltage | output HIGH or LOW state | 0 | - | V_{CC} | V |
| T_{amb} | ambient temperature | | -40 | +25 | +125 | °C |
| $\Delta t/\Delta V$ | input transition rise and fall rate | $V_{CC} = 1.8$ V to 5.0 V | - | - | 20 | ns/V |

11 Static characteristics

Table 7. Static characteristics

Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | 25 °C | | -40 °C to +85 °C | | -40 °C to +125 °C | | Unit |
|-----------------|---------------------------|---|----------------------|------|----------------------|------|----------------------|------|------|
| | | | Min | Max | Min | Max | Min | Max | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 1.65 V to 1.8 V | 0.94 | - | 1.0 | - | 1.0 | - | V |
| | | V _{CC} = 2.0 V | 0.99 | - | 1.03 | - | 1.03 | - | V |
| | | V _{CC} = 2.25 V to 2.5 V | 1.135 | - | 1.18 | - | 1.18 | - | V |
| | | V _{CC} = 2.75 V | 1.21 | - | 1.23 | - | 1.23 | - | V |
| | | V _{CC} = 3.0 V to 3.3 V | 1.35 | - | 1.37 | - | 1.37 | - | V |
| | | V _{CC} = 3.6 V | 1.47 | - | 1.48 | - | 1.48 | - | V |
| | | V _{CC} = 4.5 V to 5.0 V | 2.02 | - | 2.03 | - | 2.03 | - | V |
| | | V _{CC} = 5.5 V | 2.10 | - | 2.11 | - | 2.11 | - | V |
| V _{IL} | LOW-level input voltage | V _{CC} = 1.65 V to 2.0 V | - | 0.58 | - | 0.55 | - | 0.55 | V |
| | | V _{CC} = 2.25 V to 2.75 V | - | 0.75 | - | 0.71 | - | 0.71 | V |
| | | V _{CC} = 3.0 V to 3.6 V | - | 0.80 | - | 0.65 | - | 0.65 | V |
| | | V _{CC} = 4.5 V to 5.5 V | - | 0.80 | - | 0.80 | - | 0.80 | V |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} ; | | | | | | | |
| | | V _{CC} = 1.65 V to 5.5 V; I _O = -20 µA | V _{CC} -0.1 | - | V _{CC} -0.1 | - | V _{CC} -0.1 | - | V |
| | | V _{CC} = 1.65 V; I _O = -2 mA | 1.28 | - | 1.21 | - | 1.21 | - | V |
| | | V _{CC} = 1.8 V; I _O = -2 mA | 1.5 | - | 1.45 | - | 1.45 | - | V |
| | | V _{CC} = 2.3 V; I _O = -2.3 mA | 2.0 | - | 2.0 | - | 2.0 | - | V |
| | | V _{CC} = 2.3 V; I _O = -3 mA | 2.0 | - | 1.93 | - | 1.93 | - | V |
| | | V _{CC} = 2.5 V; I _O = -3 mA | 2.25 | - | 2.15 | - | 2.15 | - | V |
| | | V _{CC} = 3.0 V; I _O = -3 mA | 2.78 | - | 2.7 | - | 2.7 | - | V |
| | | V _{CC} = 3.0 V; I _O = -5.5 mA | 2.6 | - | 2.49 | - | 2.49 | - | V |
| | | V _{CC} = 3.3 V; I _O = -5.5 mA | 2.9 | - | 2.8 | - | 2.8 | - | V |
| | | V _{CC} = 4.5 V; I _O = -4 mA | 4.2 | - | 4.1 | - | 4.1 | - | V |
| | | V _{CC} = 4.5 V; I _O = -8 mA | 4.1 | - | 3.95 | - | 3.95 | - | V |
| | | V _{CC} = 5.0 V; I _O = -8 mA | 4.6 | - | 4.5 | - | 4.5 | - | V |

| Symbol | Parameter | Conditions | 25 °C | | -40 °C to +85 °C | | -40 °C to +125 °C | | Unit |
|------------------|---------------------------|---|-------|------|------------------|-------|-------------------|-------|------|
| | | | Min | Max | Min | Max | Min | Max | |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | | | | |
| | | V _{CC} = 1.65 V to 5.5 V; I _O = 20 µA | - | 0.1 | - | 0.1 | - | 0.1 | V |
| | | V _{CC} = 1.65 V; I _O = 2 mA | - | 0.2 | - | 0.25 | - | 0.25 | V |
| | | V _{CC} = 2.3 V; I _O = 2.3 mA | - | 0.1 | - | 0.15 | - | 0.15 | V |
| | | V _{CC} = 2.3 V; I _O = 3 mA | - | 0.15 | - | 0.2 | - | 0.2 | V |
| | | V _{CC} = 3.0 V; I _O = 3 mA | - | 0.1 | - | 0.15 | - | 0.15 | V |
| | | V _{CC} = 3.0 V; I _O = 5.5 mA | - | 0.2 | - | 0.252 | - | 0.252 | V |
| | | V _{CC} = 4.5 V; I _O = 4 mA | - | 0.15 | - | 0.2 | - | 0.2 | V |
| | | V _{CC} = 4.5 V; I _O = 8 mA | - | 0.3 | - | 0.35 | - | 0.35 | V |
| I _I | input leakage current | V _I = V _{CC} or GND; V _{CC} = 0 V to 5.5 V | - | ±0.1 | - | ±1 | - | ±1 | µA |
| I _{CC} | supply current | V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 1.8 V, 2.5 V, 3.3 V, 5.0 V | - | 1 | - | 10 | - | 10 | µA |
| ΔI _{CC} | additional supply current | per input pin; V _{CC} = 1.8 V; V _I = 0.3 V or 1.1 V; I _O = 0 A; other pins at V _{CC} or GND | - | 10 | - | 10 | - | 10 | µA |
| | | per input pin; V _{CC} = 5.5 V; V _I = 0.3 V or 3.4 V; I _O = 0 A; other pins at V _{CC} or GND | - | 1.35 | - | 1.5 | - | 1.5 | mA |

12 Dynamic characteristics

Table 8. Dynamic characteristics

GND = 0 V. For test circuit, see [Figure 7](#).

| Symbol | Parameter | Conditions | -40 °C to +125 °C | | | | | Unit |
|-----------------|--------------------|--|-------------------|--------------|--------------|--------------|---------------|------|
| | | | Min | Typ 25 °C | Max 25 °C | Max 85 °C | Max 125 °C | |
| t _{pd} | propagation delay | A, B to Y; see Figure 6 ^[1] | | | | | | |
| | | V _{CC} = 1.8 V; C _L = 15 pF | - | 6.3 | 9.4 | 10.6 | 11.4 | ns |
| | | V _{CC} = 1.8 V; C _L = 30 pF | - | 7.4 | 10.5 | 12.0 | 12.8 | ns |
| | | V _{CC} = 2.5 V; C _L = 15 pF | - | 4.5 | 6.4 | 7.2 | 7.8 | ns |
| | | V _{CC} = 2.5 V; C _L = 30 pF | - | 5.3 | 7.2 | 8.2 | 8.9 | ns |
| | | V _{CC} = 3.3 V; C _L = 15 pF | - | 3.7 | 5.2 | 5.9 | 6.3 | ns |
| | | V _{CC} = 3.3 V; C _L = 30 pF | - | 4.3 | 5.9 | 6.8 | 7.1 | ns |
| | | V _{CC} = 5.0 V; C _L = 15 pF | - | 3.1 | 3.9 | 4.3 | 4.5 | ns |
| | | V _{CC} = 5.0 V; C _L = 30 pF | - | 3.6 | 4.5 | 4.9 | 5.2 | ns |
| C _I | input capacitance | V _I = V _{CC} or GND; V _{CC} = 3.3 V | - | 1.5 | 10 | 10 | 10 | pF |
| C _O | output capacitance | V _O = V _{CC} or GND; V _{CC} = 3.3 V | - | 2.5 | - | - | - | pF |

| Symbol | Parameter | Conditions | -40 °C to +125 °C | | | | | Unit |
|-----------------|-------------------------------|--|-------------------|--------------|--------------|--------------|---------------|------|
| | | | Min | Typ 25 °C | Max 25 °C | Max 85 °C | Max 125 °C | |
| C _{PD} | power dissipation capacitance | per buffer; V _I = GND to V _{CC} ; ^[2] C _L = 30 pF; f = 10 MHz | | | | | | |
| | | V _{CC} = 1.8 V | - | 4.2 | - | - | - | pF |
| | | V _{CC} = 2.5 V | - | 5.5 | - | - | - | pF |
| | | V _{CC} = 3.3 V | - | 7.4 | - | - | - | pF |
| | | V _{CC} = 5.0 V | - | 11.5 | - | - | - | pF |

[1] t_{pd} is the same as t_{PLH} and t_{PHL}.
[2] 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 V;
N = number of inputs switching;
Σ(C_L × V_{CC}² × f_o) = sum of the outputs.

12.1 Waveforms and test circuit

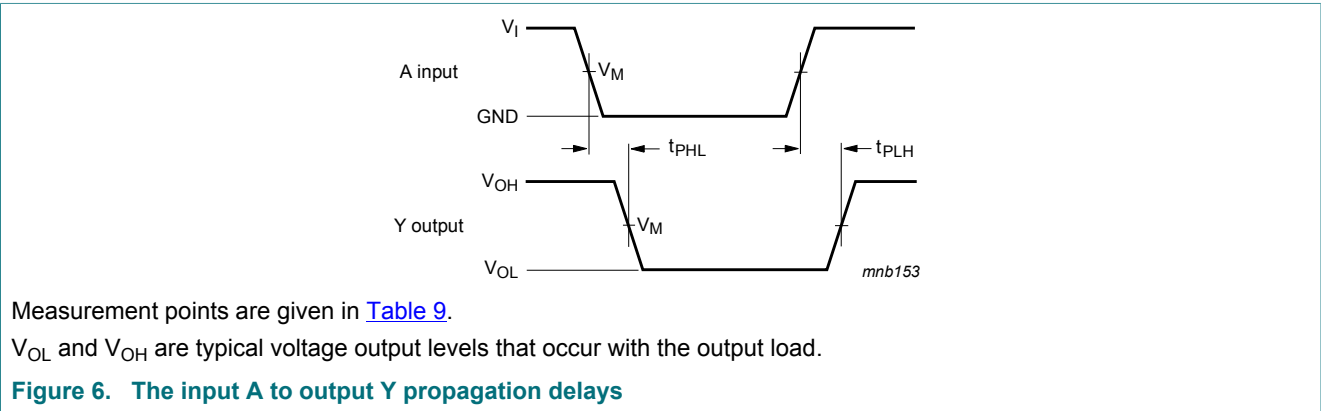


Table 9. Measurement points

| Input | Output |
|-------------------|--------------------|
| V _M | V _M |
| 0.5V _I | 0.5V _{CC} |

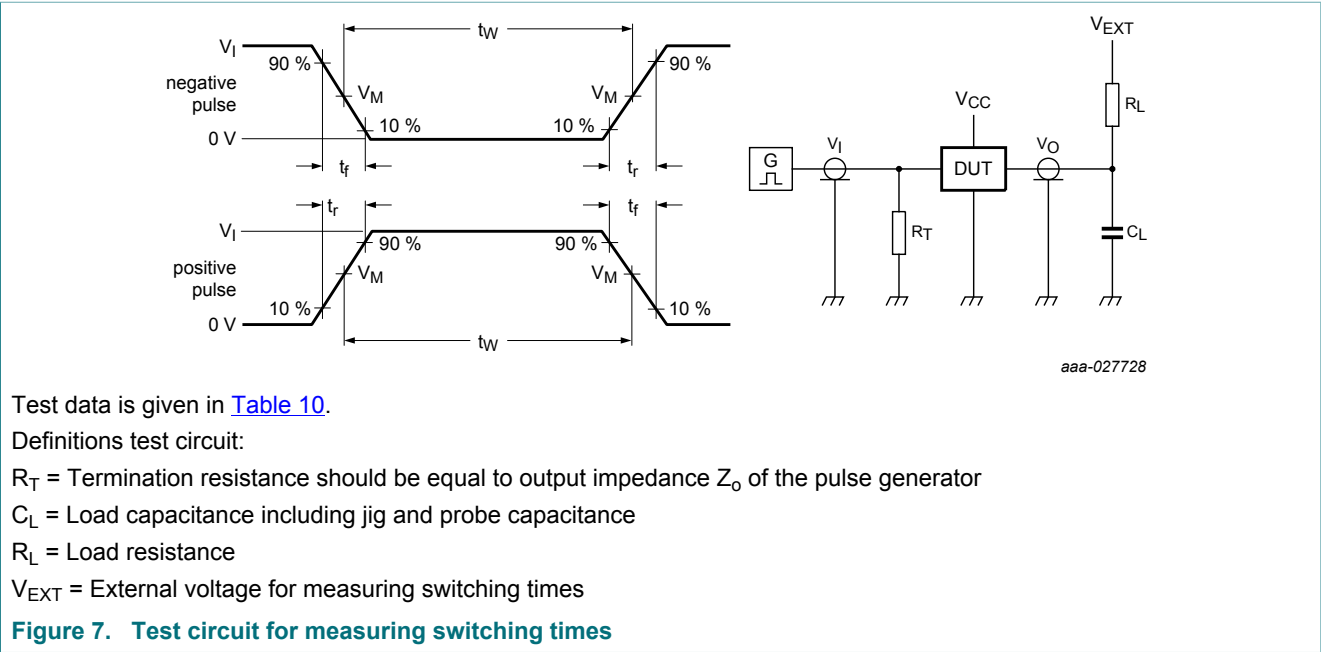


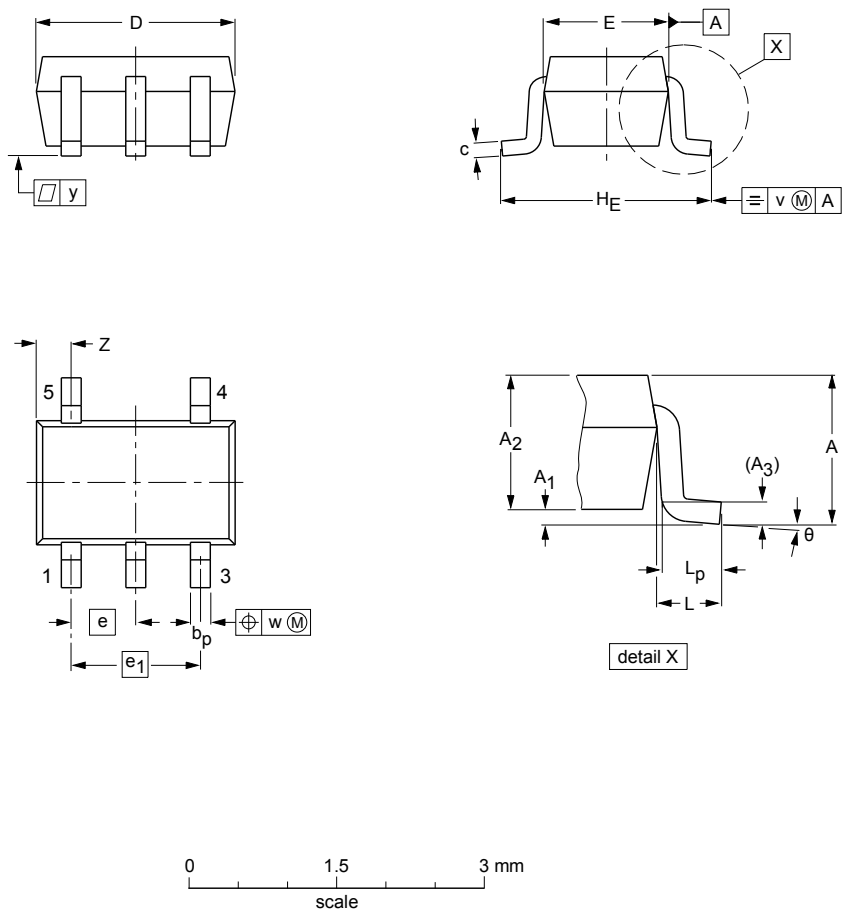
Table 10. Test data

| Supply voltage | Input | | | Load | V_{EXT} | | | |
|----------------|----------|-------------------------|-----------|--------------|-------------|--------------------|--------------------|--------------------|
| V_{CC} | V_I | $\Delta t/\Delta V$ [1] | f_{max} | C_L | R_L | t_{PLH}, t_{PHL} | t_{PZH}, t_{PHZ} | t_{PZL}, t_{PLZ} |
| 1.8 V | V_{CC} | $\leq 1.0 \text{ ns/V}$ | 15 MHz | 15 pF, 30 pF | 1M Ω | GND | GND | V_{CC} |
| 2.5 V | V_{CC} | $\leq 1.0 \text{ ns/V}$ | 25 MHz | 15 pF, 30 pF | 1M Ω | GND | GND | V_{CC} |
| 3.3 V | 3 V | $\leq 1.0 \text{ ns/V}$ | 50 MHz | 15 pF, 30 pF | 1M Ω | GND | GND | V_{CC} |
| 5.0 V | 3 V | $\leq 1.0 \text{ ns/V}$ | 50 MHz | 15 pF, 30 pF | 1M Ω | GND | GND | V_{CC} |

[1] $dV/dt \geq 1.0 \text{ V/ns}$

13 Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm SOT353-1



DIMENSIONS (mm are the original dimensions)

| UNIT | A max. | A ₁ | A ₂ | A ₃ | b _p | c | D ⁽¹⁾ | E ⁽¹⁾ | e | e ₁ | H _E | L | L _p | v | w | y | Z ⁽¹⁾ | θ |
|------|-----------|----------------|----------------|----------------|----------------|--------------|------------------|------------------|------|----------------|----------------|-------|----------------|-----|-----|-----|------------------|----------|
| mm | 1.1 | 0.1 0 | 1.0 0.8 | 0.15 | 0.30 0.15 | 0.25 0.08 | 2.25 1.85 | 1.35 1.15 | 0.65 | 1.3 | 2.25 2.0 | 0.425 | 0.46 0.21 | 0.3 | 0.1 | 0.1 | 0.60 0.15 | 7° 0° |

Note
1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

| OUTLINE VERSION | REFERENCES | | | | EUROPEAN PROJECTION | ISSUE DATE |
|--------------------|------------|--------|--------|--|------------------------|---------------------------------|
| | IEC | JEDEC | JEITA | | | |
| SOT353-1 | | MO-203 | SC-88A | | | 00-09-01 03-02-19 |

Figure 8. Package outline SOT353-1 (TSSOP5)

X2SON5: plastic thermal enhanced extremely thin small outline package; no leads;
5 terminals; body 0.8 x 0.8 x 0.35 mm

SOT1226

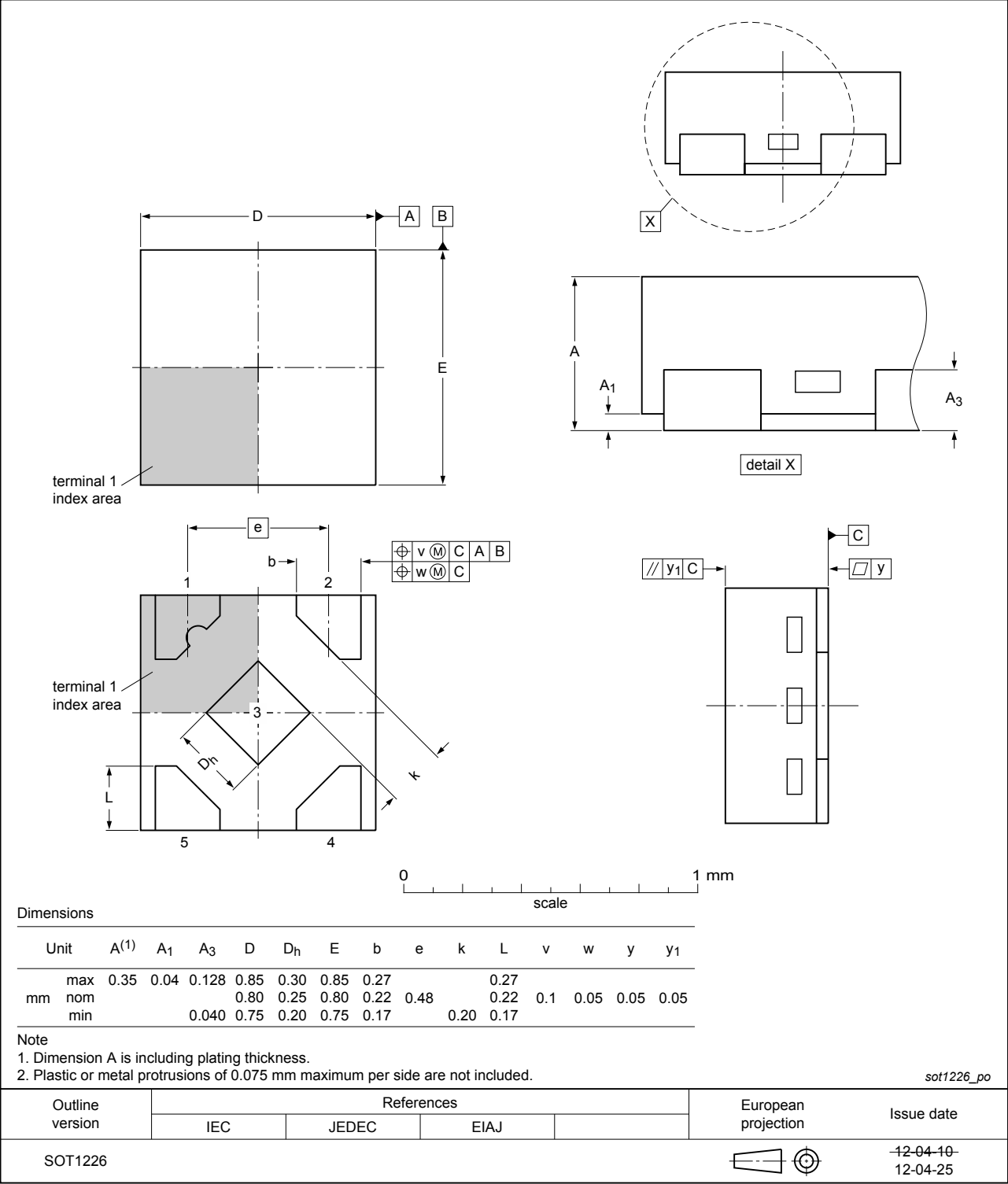


Figure 9. Package outline SOT1226 (X2SON5)

14 Abbreviations

Table 11. Abbreviations

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

15 Revision history

Table 12. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|--------------|--------------|--------------------|---------------|------------|
| 74LV1T34 v.1 | 20171128 | Product data sheet | - | - |

16 Legal information

16.1 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. |
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[1] Please consult the most recently issued document before initiating or completing a design.

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

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