



**THE DATASHEET OF
74LV1T32GWH**



74LV1T32

2-input single supply translating OR gate

Rev. 5 — 14 December 2023

Product data sheet

1. General description

The 74LV1T32 is a single, level translating 2-input OR gate. 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 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to $+85$ °C and from -40 °C to $+125$ °C

3. Applications

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

4. Ordering information

Table 1. Ordering information

| Type number | Package | | | Version |
|----------------------------|-----------------------|--------|--|---------------------------|
| | Temperature range | Name | Description | |
| 74LV1T32GW | -40 °C to $+125$ °C | TSSOP5 | plastic thin shrink small outline package; 5 leads; body width 1.25 mm | SOT353-1 |
| 74LV1T32GV | -40 °C to $+125$ °C | SC-74A | plastic surface-mounted package; 5 leads | SOT753 |
| 74LV1T32GX | -40 °C to $+125$ °C | X2SON5 | plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body $0.8 \times 0.8 \times 0.32$ mm | SOT1226-3 |

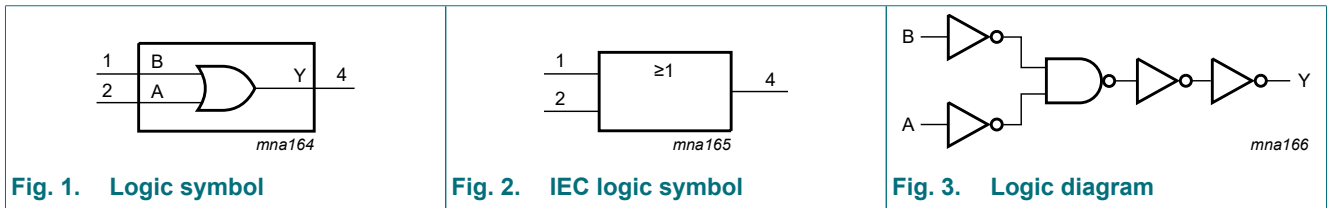
5. Marking

Table 2. Marking

| Type number | Marking code[1] |
|-------------|-----------------|
| 74LV1T32GW | SB |
| 74LV1T32GV | SB |
| 74LV1T32GX | SB |

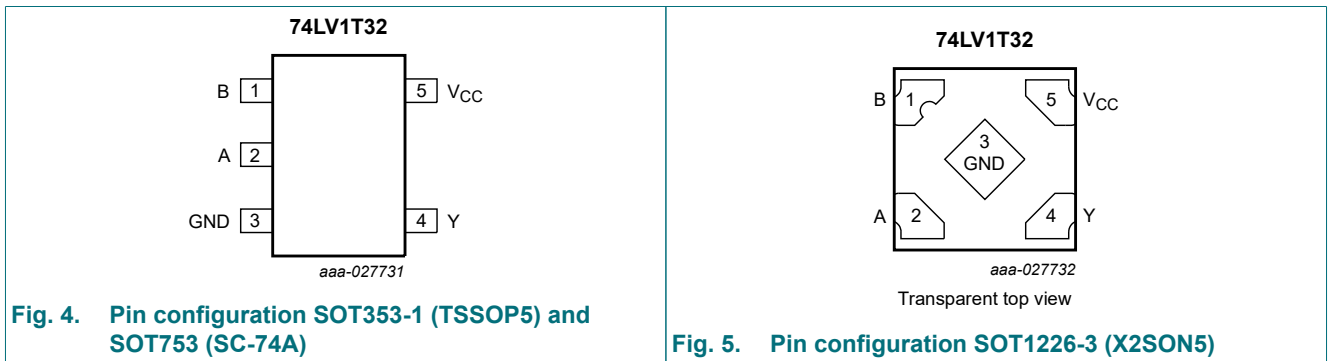
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

6. Functional diagram



7. Pinning information

7.1. Pinning



7.2. Pin description

Table 3. Pin description

| Symbol | Pin | Description |
|-----------------|-----|----------------|
| B | 1 | data input |
| 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

H = HIGH voltage level; L = LOW voltage level.

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

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 SOT353-1 (TSSOP5) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT753 (SC-74A) package: P_{tot} derates linearly with 3.8 mW/K above 85 °C.

For SOT1226-3 (X2SON5) package: P_{tot} derates linearly with 3.0 mW/K above 67 °C.

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 | | |
| 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 | | |

| Symbol | Parameter | Conditions | 25 °C | | -40 °C to +85 °C | | -40 °C to +125 °C | | Unit |
|-----------------|---------------------------|---|-------|------|------------------|-----|-------------------|-----|------|
| | | | Min | Max | Min | Max | Min | Max | |
| 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 Fig. 7.

| Symbol | Parameter | Conditions | 25 °C | | | -40 °C to +85 °C | | -40 °C to +125 °C | | Unit |
|----------|-------------------------------|--|-------|------|------|------------------|------|-------------------|------|------|
| | | | Min | Typ | Max | Min | Max | Min | Max | |
| t_{pd} | propagation delay | A, B to Y; see Fig. 6 [1] | | | | | | | | |
| | | $V_{CC} = 1.8$ V; $C_L = 15$ pF | - | 6.6 | 9.6 | - | 10.9 | - | 11.7 | ns |
| | | $V_{CC} = 1.8$ V; $C_L = 30$ pF | - | 7.7 | 10.8 | - | 12.3 | - | 13.3 | ns |
| | | $V_{CC} = 2.5$ V; $C_L = 15$ pF | - | 4.7 | 6.6 | - | 7.5 | - | 8.0 | ns |
| | | $V_{CC} = 2.5$ V; $C_L = 30$ pF | - | 5.4 | 7.4 | - | 8.4 | - | 9.1 | ns |
| | | $V_{CC} = 3.3$ V; $C_L = 15$ pF | - | 3.9 | 5.3 | - | 6.0 | - | 6.4 | ns |
| | | $V_{CC} = 3.3$ V; $C_L = 30$ pF | - | 4.4 | 6.0 | - | 6.8 | - | 7.3 | ns |
| | | $V_{CC} = 5.0$ V; $C_L = 15$ pF | - | 3.2 | 4.0 | - | 4.5 | - | 4.7 | ns |
| | | $V_{CC} = 5.0$ V; $C_L = 30$ pF | - | 3.7 | 4.5 | - | 5.1 | - | 5.4 | 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 |
| C_{PD} | power dissipation capacitance | per buffer; $V_I = GND$ to V_{CC} ; $C_L = 30$ pF; $f = 10$ MHz [2] | | | | | | | | |
| | | $V_{CC} = 1.8$ V | - | 4.3 | - | - | - | - | - | pF |
| | | $V_{CC} = 2.5$ V | - | 5.7 | - | - | - | - | - | pF |
| | | $V_{CC} = 3.3$ V | - | 7.6 | - | - | - | - | - | pF |
| | | $V_{CC} = 5.0$ V | - | 11.9 | - | - | - | - | - | 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).

$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum(C_L \times V_{CC}^2 \times f_o) \text{ where:}$$

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;

$\sum(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs.

12.1. Waveforms and test circuit

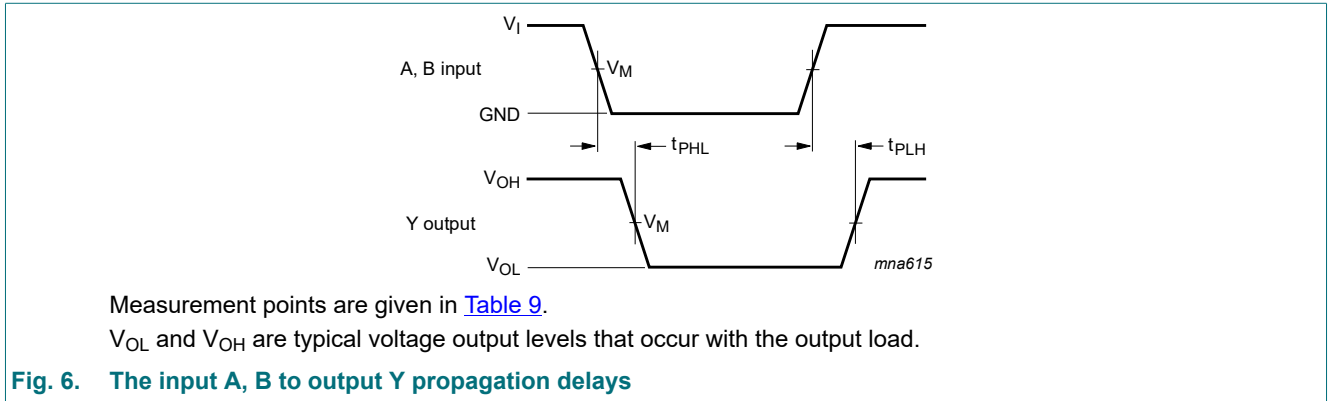


Table 9. Measurement points

| Input | Output |
|------------------|---------------------|
| V_M | V_M |
| $0.5 \times V_I$ | $0.5 \times V_{CC}$ |

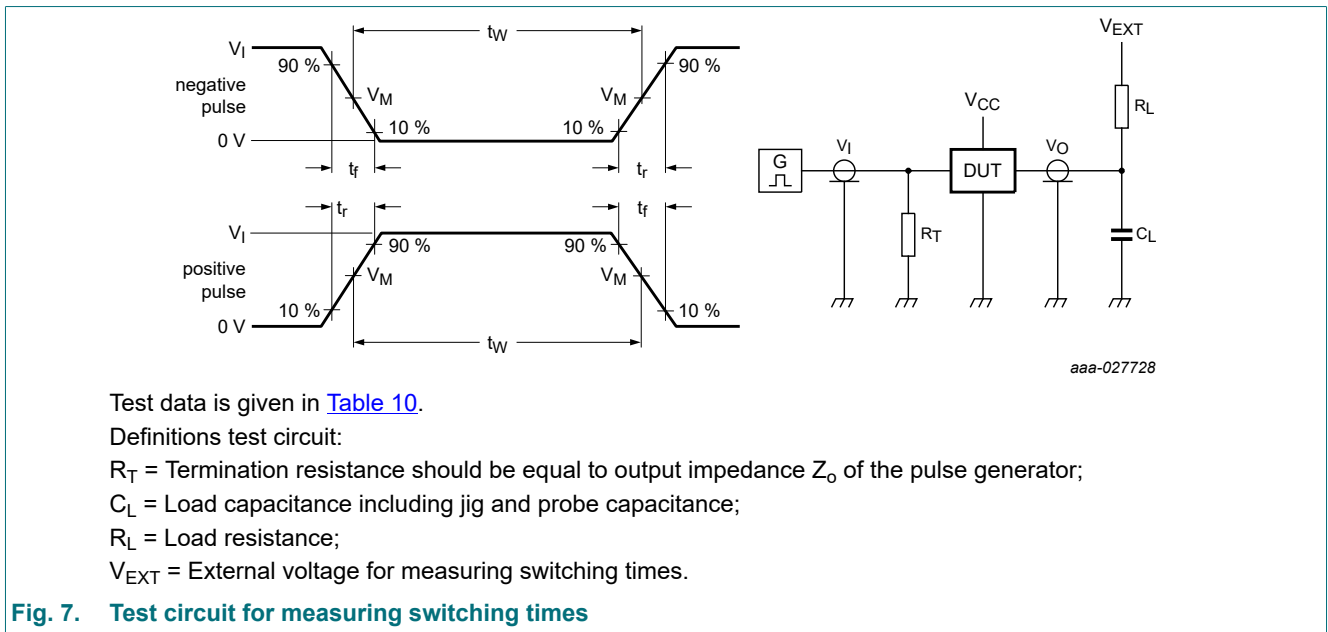


Table 10. Test data

| Supply voltage | Input | | | Load | | V_{EXT} | | |
|----------------|----------|-------------------------|-----------|--------------|-------------|--------------------|--------------------|--------------------|
| | 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



Fig. 8. Package outline SOT353-1 (TSSOP5)

Plastic surface-mounted package; 5 leads

SOT753

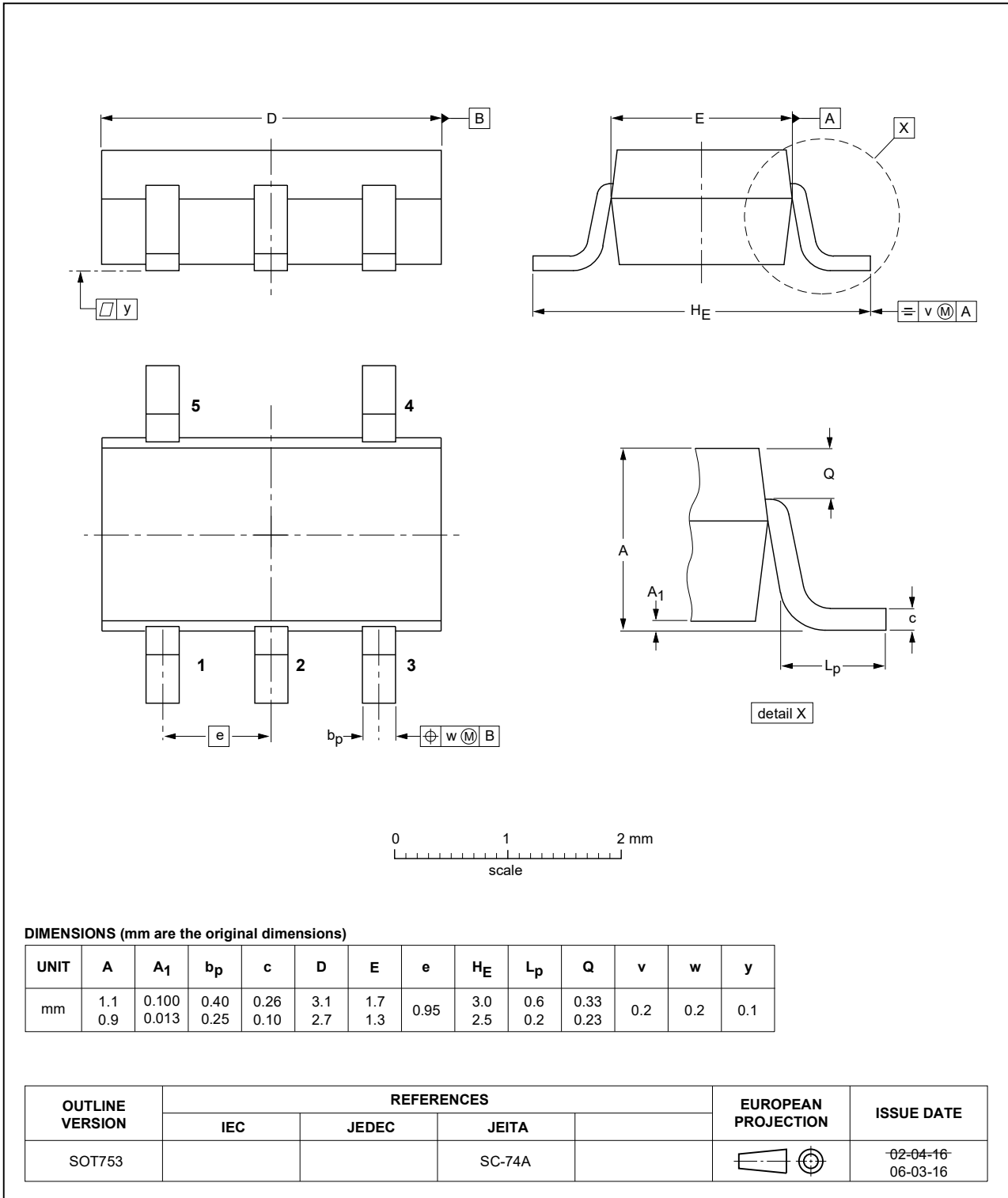


Fig. 9. Package outline SOT753 (SC-74A)

X2SON5: plastic thermal enhanced extremely thin small outline package; no leads;
5 terminals; body 0.8 x 0.8 x 0.32 mm

SOT1226-3

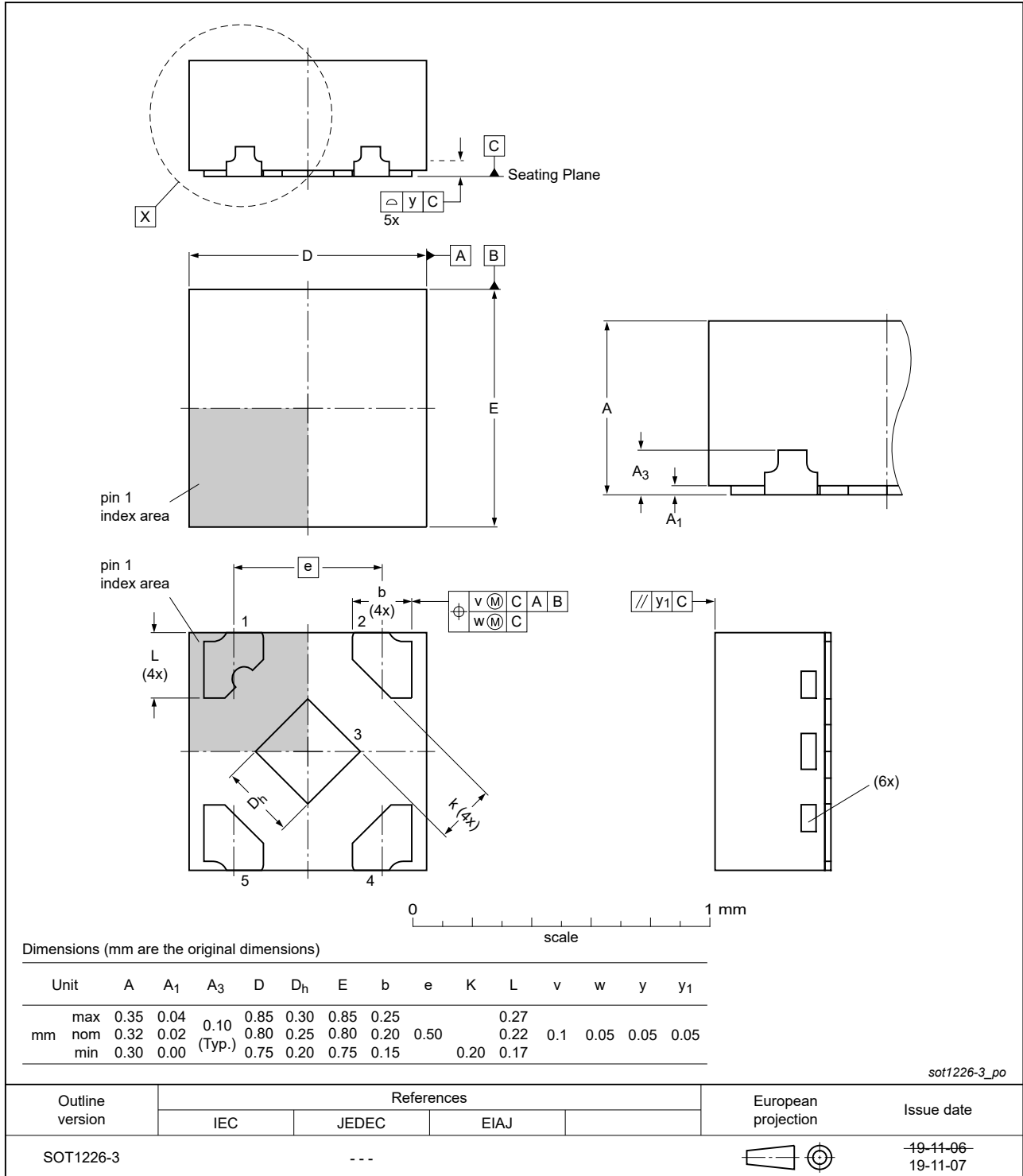


Fig. 10. Package outline SOT1226-3 (X2SON5)

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 |
|----------------|---|--------------------|---------------|--------------|
| 74LV1T32 v.5 | 20231214 | Product data sheet | - | 74LV1T32 v.4 |
| Modifications: | <ul style="list-style-type: none"> Section 2: ESD specification updated according to the latest JEDEC standard. | | | |
| 74LV1T32 v.4 | 20220223 | Product data sheet | - | 74LV1T32 v.3 |
| Modifications: | <ul style="list-style-type: none"> Package SOT1226 (X2SON5) changed to SOT1226-3 (X2SON5). | | | |
| 74LV1T32 v.3 | 20220210 | Product data sheet | - | 74LV1T32 v.2 |
| Modifications: | <ul style="list-style-type: none"> Fig. 8: Package outline drawing for SOT353-1 (TSSOP5) has changed. | | | |
| 74LV1T32 v.2 | 20191203 | Product data sheet | - | 74LV1T32 v.1 |
| Modifications: | <ul style="list-style-type: none"> Type number 74LV1T32GV (SOT753/SC-74A) added. Table 5: Derating values for P_{tot} total power dissipation updated. | | | |
| 74LV1T32 v.1 | 20171128 | Product data sheet | - | - |

16. 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. |

- [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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Contents



| | |
|---|-----------|
| 1. General description | 1 |
| 2. Features and benefits | 1 |
| 3. Applications | 1 |
| 4. Ordering information | 1 |
| 5. Marking | 2 |
| 6. Functional diagram | 2 |
| 7. Pinning information | 2 |
| 7.1. Pinning..... | 2 |
| 7.2. Pin description..... | 2 |
| 8. Functional description | 3 |
| 9. Limiting values | 3 |
| 10. Recommended operating conditions | 3 |
| 11. Static characteristics | 4 |
| 12. Dynamic characteristics | 5 |
| 12.1. Waveforms and test circuit..... | 6 |
| 13. Package outline | 7 |
| 14. Abbreviations | 10 |
| 15. Revision history | 10 |
| 16. Legal information | 11 |

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