# 74LV1T125

## Single supply translating buffer/line driver; 3-state

Rev. 1 — 22 November 2017 Product data sheet

## 1 General description

The 74LV1T125 is a single, level translating buffer/line driver with 3-state output. 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 down translation (3.3 V to 2.5 V output at $V_{CC}$ = 2.5 V). The 3-state output is controlled by the output enable input ($\overline{OE}$). A HIGH-level at $\overline{OE}$ causes the output to assume a high-impedance OFF-state. 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-C101 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 |
| 74LV1T125GW | -40 °C to +125 °C | TSSOP5 | plastic thin shrink small outline package; 5 leads; body width 1.25 mm | SOT353-1 |
| 74LV1T125GX | -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] |
|---|---|
| 74LV1T125GW | SN |
| 74LV1T125GX | SN |

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

# 6 Functional diagram

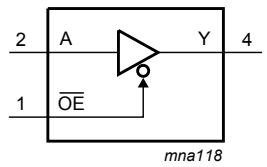



**Figure 1. Logic symbol**

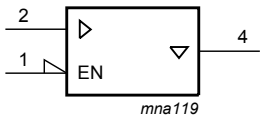



**Figure 2. IEC logic symbol**

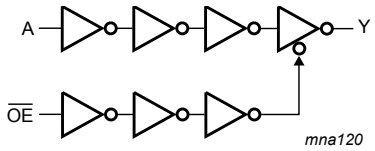



**Figure 3. Logic diagram**

# 7 Pinning information

## 7.1 Pinning

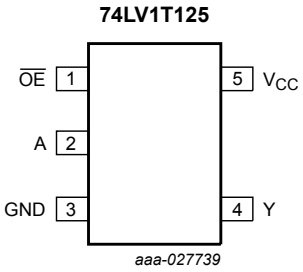
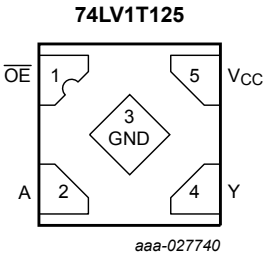



**Figure 4. Pin configuration SOT353-1 (TSSOP5)**




Transparent top view

**Figure 5. Pin configuration SOT1226 (X2SON5)**

## 7.2 Pin description

**Table 3. Pin description**

| Symbol | Pin | Description |
|---|---|---|
| $\overline{OE}$ | 1 | output enable 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; X = don't care; Z = high-impedance OFF-state.*

| Input | | Output |
|---|---|---|
| **$\overline{OE}$** | **A** | **Y** |
| L | L | L |
| L | H | H |
| H | X | Z |

# 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 3-state or 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 |
| Δt/ΔV | 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 |
| $I_{OZ}$ | OFF-state output current | | - | ±0.25 | - | ±2.5 | - | ±2.5 | 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 |
| $\Delta I_{CC}$ | 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**

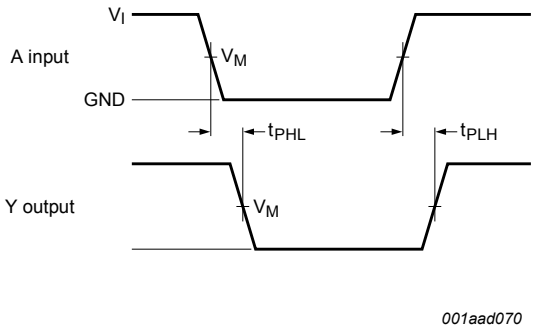
*GND = 0 V. For test circuit, see Figure 8.*

| 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 to Y; see Figure 6 [1] | | | | | | |
| | | $V_{CC}$ = 1.8 V; $C_L$ = 15 pF | - | 6.5 | 9.6 | 10.8 | 11.6 | ns |
| | | $V_{CC}$ = 1.8 V; $C_L$ = 30 pF | - | 7.6 | 10.8 | 12.2 | 13.1 | ns |
| | | $V_{CC}$ = 2.5 V; $C_L$ = 15 pF | - | 4.6 | 6.6 | 7.5 | 8.0 | ns |
| | | $V_{CC}$ = 2.5 V; $C_L$ = 30 pF | - | 5.3 | 7.4 | 8.4 | 9.1 | ns |
| | | $V_{CC}$ = 3.3 V; $C_L$ = 15 pF | - | 3.8 | 5.4 | 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 | 4.1 | 4.4 | 4.7 | ns |
| | | $V_{CC}$ = 5.0 V; $C_L$ = 30 pF | - | 3.6 | 4.6 | 5.1 | 5.4 | ns |
| $t_{en}$ | enable time | $\overline{OE}$ to Y; see Figure 7 [1] | | | | | | |
| | | $V_{CC}$ = 1.8 V; $C_L$ = 15 pF | - | 7.8 | 10.7 | 12.1 | 12.9 | ns |
| | | $V_{CC}$ = 1.8 V; $C_L$ = 30 pF | - | 9.0 | 12.6 | 14.3 | 15.3 | ns |
| | | $V_{CC}$ = 2.5 V; $C_L$ = 15 pF | - | 5.5 | 7.1 | 8.0 | 8.6 | ns |
| | | $V_{CC}$ = 2.5 V; $C_L$ = 30 pF | - | 6.3 | 8.3 | 9.3 | 10.0 | ns |
| | | $V_{CC}$ = 3.3 V; $C_L$ = 15 pF | - | 4.5 | 5.6 | 6.3 | 6.8 | ns |
| | | $V_{CC}$ = 3.3 V; $C_L$ = 30 pF | - | 5.1 | 6.4 | 7.2 | 7.7 | ns |
| | | $V_{CC}$ = 5.0 V; $C_L$ = 15 pF | - | 3.2 | 4.1 | 4.6 | 4.8 | ns |
| | | $V_{CC}$ = 5.0 V; $C_L$ = 30 pF | - | 3.7 | 4.7 | 5.3 | 5.5 | ns |
| $t_{dis}$ | disable time | $\overline{OE}$ to Y; see Figure 7 [1] | | | | | | |
| | | $V_{CC}$ = 1.8 V; $C_L$ = 15 pF | - | 7.6 | 9.7 | 10.7 | 11.3 | ns |
| | | $V_{CC}$ = 1.8 V; $C_L$ = 30 pF | - | 10.5 | 12.9 | 14.0 | 14.7 | ns |
| | | $V_{CC}$ = 2.5 V; $C_L$ = 15 pF | - | 5.5 | 7.0 | 7.7 | 8.1 | ns |
| | | $V_{CC}$ = 2.5 V; $C_L$ = 30 pF | - | 7.4 | 9.0 | 10.0 | 10.3 | ns |
| | | $V_{CC}$ = 3.3 V; $C_L$ = 15 pF | - | 4.5 | 5.8 | 6.4 | 6.7 | ns |
| | | $V_{CC}$ = 3.3 V; $C_L$ = 30 pF | - | 5.9 | 7.5 | 8.1 | 8.6 | ns |
| | | $V_{CC}$ = 5.0 V; $C_L$ = 15 pF | - | 4.0 | 5.5 | 5.9 | 6.2 | ns |
| | | $V_{CC}$ = 5.0 V; $C_L$ = 30 pF | - | 5.0 | 6.5 | 6.9 | 7.3 | ns |

| Symbol | Parameter | Conditions | -40 °C to +125 °C | | | | | Unit |
|---|---|---|---|---|---|---|---|---|
| | | | Min | Typ 25 °C | Max 25 °C | Max 85 °C | Max 125 °C | |
| $C_I$ | 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 | - | 4.1 | - | - | - | pF |
| | | $V_{CC}$ = 2.5 V | - | 5.3 | - | - | - | pF |
| | | $V_{CC}$ = 3.3 V | - | 6.9 | - | - | - | pF |
| | | $V_{CC}$ = 5.0 V | - | 10.7 | - | - | - | pF |

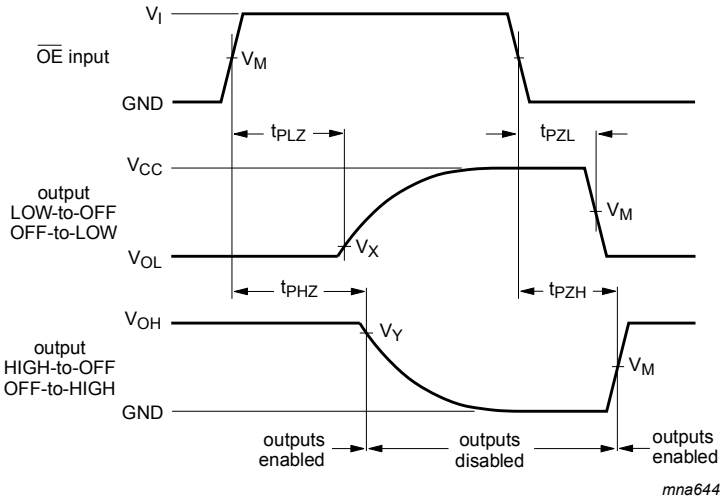
[1] $t_{pd}$ is the same as $t_{PLH}$ and $t_{PHL}$, $t_{en}$ is the same as $t_{PZL}$ and $t_{PZH}$, $t_{dis}$ is the same as $t_{PLZ}$ and $t_{PHZ}$.
[2] $C_{PD}$ is used to determine the dynamic power dissipation ($P_D$ in µW).
$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum(C_L \times V_{CC}^2 \times f_o)$ 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;
$\sum(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs.

## 12.1 Waveforms and test circuit




Measurement points are given in Table 9.
$V_{OL}$ and $V_{OH}$ are typical voltage output levels that occur with the output load.

**Figure 6. The input A to output Y propagation delays**



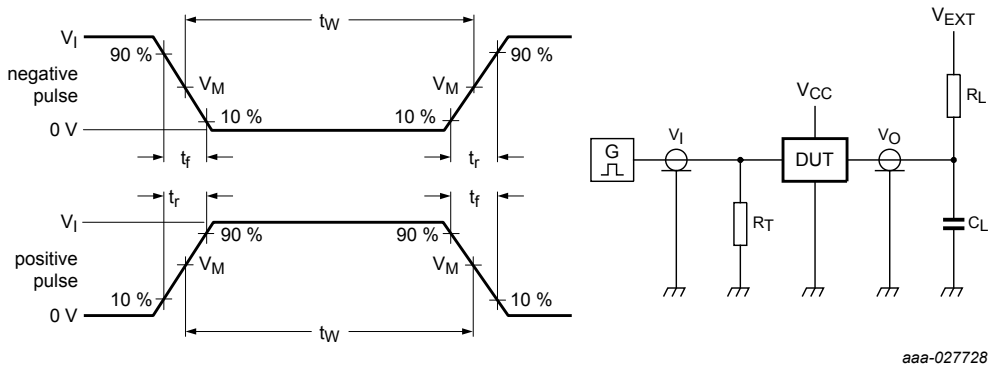

Measurement points are given in Table 9.

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

**Figure 7. 3-state enable and disable times**

**Table 9. Measurement points**

| Input | Output | | |
|---|---|---|---|
| **$V_M$** | **$V_M$** | **$V_X$** | **$V_Y$** |
| $0.5V_I$ | $0.5V_{CC}$ | $V_{OL}$ + 0.3 V | $V_{OH}$ - 0.3 V |




Test data is given in Table 10.

Definitions test circuit:

$R_T$ = Termination resistance should be equal to output impedance $Z_o$ of the pulse generator

$C_L$ = Load capacitance including jig and probe capacitance

$R_L$ = Load resistance

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

**Figure 8. Test circuit for measuring switching times**

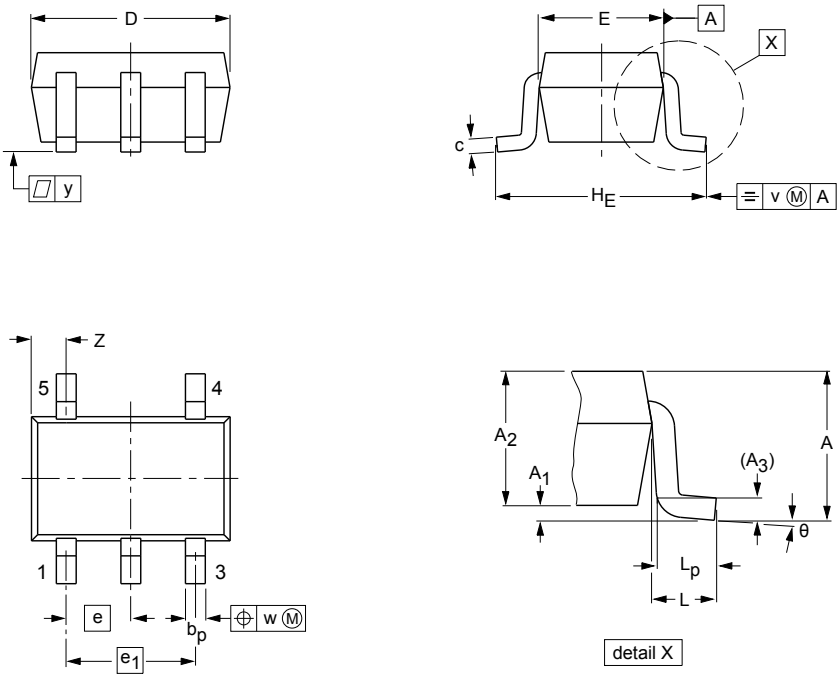
**Table 10. Test data**

| 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 | $V_{CC}$ | ≤ 1.0 ns/V | 15 MHz | 15 pF, 30 pF | 1 kΩ | open | GND | $V_{CC}$ |
| 2.5 V | $V_{CC}$ | ≤ 1.0 ns/V | 25 MHz | 15 pF, 30 pF | 1 kΩ | open | GND | $V_{CC}$ |
| 3.3 V | 3 V | ≤ 1.0 ns/V | 50 MHz | 15 pF, 30 pF | 1 kΩ | open | GND | $V_{CC}$ |
| 5.0 V | 3 V | ≤ 1.0 ns/V | 50 MHz | 15 pF, 30 pF | 1 kΩ | open | GND | $V_{CC}$ |

[1] dV/dt ≥ 1.0 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<br>0 | 1.0<br>0.8 | 0.15 | 0.30<br>0.15 | 0.25<br>0.08 | 2.25<br>1.85 | 1.35<br>1.15 | 0.65 | 1.3 | 2.25<br>2.0 | 0.425 | 0.46<br>0.21 | 0.3 | 0.1 | 0.1 | 0.60<br>0.15 | 7°<br>0° |

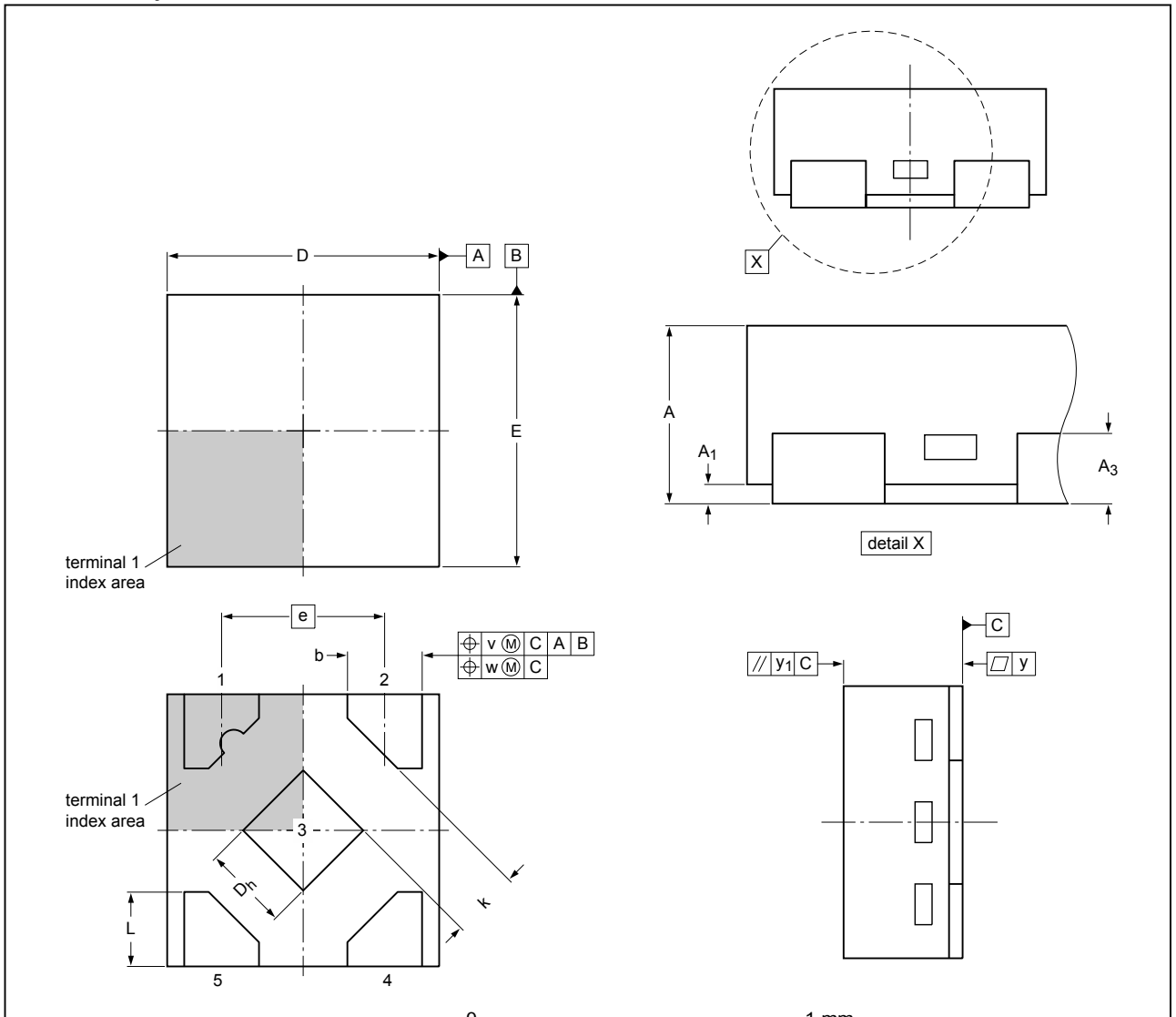
**Note**

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~~<br>03-02-19 |

**Figure 9. 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**




Dimensions

| Unit | | $A^{(1)}$ | $A_1$ | $A_3$ | D | $D_h$ | E | b | e | k | L | v | w | y | $y_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | max | 0.35 | 0.04 | 0.128 | 0.85 | 0.30 | 0.85 | 0.27 | | | 0.27 | | | | |
| mm | nom | | | | 0.80 | 0.25 | 0.80 | 0.22 | 0.48 | | 0.22 | 0.1 | 0.05 | 0.05 | 0.05 |
| | min | | | 0.040 | 0.75 | 0.20 | 0.75 | 0.17 | | 0.20 | 0.17 | | | | |

Note
1. Dimension A is including plating thickness.
2. Plastic or metal protrusions of 0.075 mm maximum per side are not included.

*sot1226_po*

| Outline version | References | | | | European projection | Issue date |
|---|---|---|---|---|---|---|
| | IEC | JEDEC | EIAJ | | | |
| SOT1226 | | | | | | ~~12-04-10~~ 12-04-25 |

**Figure 10. 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 |
|---|---|---|---|---|
| 74LV1T125 v.1 | 20171122 | 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. |
| 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".
[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nexperia.com.

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