74AUP1T17

Low-power buffer with voltage-level translator Rev. 1 — 28 November 2017

Product data sheet

General description 1

The 74AUP1T17 provides the single buffer function. This device ensures a very low static and dynamic power consumption across the entire V_{CC} range from 2.3 V to 3.6 V.

The 74AUP1T17 is designed for logic-level translation applications with input switching levels that accept 1.8 V low-voltage CMOS signals, while operating from either a single 2.5 V or 3.3 V supply voltage.

The wide supply voltage range ensures normal operation as battery voltage drops from 3.6 V to 2.3 V.

This device is fully specified for partial power-down applications using I_{OFF}. The I_{OFF} circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

Schmitt trigger inputs make the circuit tolerant to slower input rise and fall times across the entire V_{CC} range.

Features and benefits

- Wide supply voltage range from 2.3 V to 3.6 V
- High noise immunity
- ESD protection:
 - HBM JESD22-A114F Class 3A exceeds 5000 V
 - CDM JESD22-C101E exceeds 1000 V
- Low static power consumption; $I_{CC} = 1.5 \mu A$ (maximum)
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Inputs accept voltages up to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- I_{OFF} circuitry provides partial power-down mode operation
- 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 | | | | | | | | |
|-------------|-------------------|--------|--|----------|--|--|--|--|--|
| | Temperature range | Name | Description | Version | | | | | |
| 74AUP1T17GW | -40 °C to +125 °C | TSSOP5 | plastic thin shrink small outline package; 5 leads; body width 1.25 mm | SOT353-1 | | | | | |
| 74AUP1T17GX | -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 | | | | | |

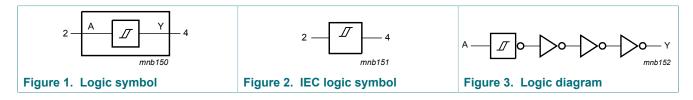
4 Marking

Table 2. Marking

| Type number | Marking code ^[1] |
|-------------|-----------------------------|
| 74AUP1T17GW | 57 |
| 74AUP1T17GX | 57 |

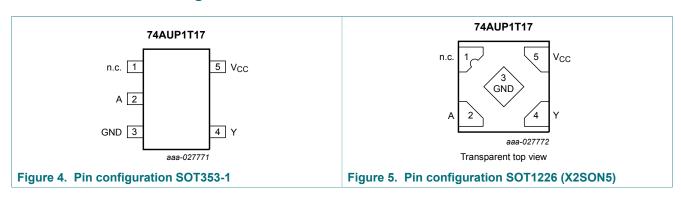
^[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5 Functional diagram



6 Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

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

Functional description

Table 4. Function table [1]

| Input | Output |
|-------|--------|
| Α | Y |
| L | L |
| Н | Н |

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

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 | +4.6 | V |
| I _{IK} | input clamping current | V _I < 0 V | -50 | - | mA |
| VI | input voltage | [1] | -0.5 | +4.6 | V |
| I _{OK} | output clamping current | V _O < 0 V | -50 | - | mA |
| Vo | output voltage | Active mode and Power-down mode [1] | -0.5 | +4.6 | V |
| I _O | output current | $V_O = 0 V \text{ to } V_{CC}$ | - | ±20 | 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 | $T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ [2] | - | 250 | mW |

 ^[1] The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed.
 [2] For TSSOP5 packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K.
 For X2SON5 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

9 Recommended operating conditions

Table 6. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Max | Unit |
|------------------|---------------------|--|-----|-----------------|------|
| V _{CC} | supply voltage | | 2.3 | 3.6 | V |
| VI | input voltage | | 0 | 3.6 | V |
| Vo | output voltage | Active mode | 0 | V _{CC} | V |
| | | Power-down mode; V _{CC} = 0 V | 0 | 3.6 | V |
| T _{amb} | ambient temperature | | -40 | +125 | °C |

10 Static characteristics

Table 7. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|----------------------|--------------------------------------|---|-----------------------|-----|------|------|
| T _{amb} = 2 | 5 °C | | | | ı | |
| V _{T+} | positive-going threshold | V _{CC} = 2.3 V to 2.7 V | 0.60 | - | 1.10 | V |
| | voltage | V _{CC} = 3.0 V to 3.6 V | 0.75 | - | 1.16 | V |
| V _{T-} | negative-going threshold | V _{CC} = 2.3 V to 2.7 V | 0.35 | - | 0.60 | V |
| | voltage | V _{CC} = 3.0 V to 3.6 V | 0.50 | - | 0.85 | V |
| V _H | hysteresis voltage | $(V_{H} = V_{T+} - V_{T-})$ | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 0.23 | - | 0.60 | V |
| | | V _{CC} = 3.0 V to 3.6 V | 0.25 | - | 0.56 | V |
| V _{OH} | HIGH-level output voltage | $V_I = V_{T+}$ or V_{T-} | | | | |
| | | I_{O} = -20 μ A; V_{CC} = 2.3 V to 3.6 V | V _{CC} - 0.1 | - | - | V |
| | | $I_{\rm O}$ = -2.3 mA; $V_{\rm CC}$ = 2.3 V | 2.05 | - | - | V |
| | | I_{O} = -3.1 mA; V_{CC} = 2.3 V | 1.9 | - | - | V |
| | | I_{O} = -2.7 mA; V_{CC} = 3.0 V | 2.72 | - | - | V |
| | | I_{O} = -4.0 mA; V_{CC} = 3.0 V | 2.6 | - | - | V |
| V _{OL} | LOW-level output voltage | $V_I = V_{T+}$ or V_{T-} | | | | |
| | | I_{O} = 20 μ A; V_{CC} = 2.3 V to 3.6 V | - | - | 0.10 | V |
| | | I_{O} = 2.3 mA; V_{CC} = 2.3 V | - | - | 0.31 | V |
| | | I_{O} = 3.1 mA; V_{CC} = 2.3 V | - | - | 0.44 | V |
| | | I_{O} = 2.7 mA; V_{CC} = 3.0 V | - | - | 0.31 | V |
| | | I_{O} = 4.0 mA; V_{CC} = 3.0 V | - | - | 0.44 | V |
| I _I | input leakage current | V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V | - | - | ±0.1 | μA |
| I _{OFF} | power-off leakage current | V_I or V_O = 0 V to 3.6 V; V_{CC} = 0 V | - | - | ±0.1 | μA |
| Δl _{OFF} | additional power-off leakage current | V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V to 0.2 V | - | - | ±0.1 | μΑ |
| I _{CC} | supply current | V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 2.3 V to 3.6 V | - | - | 1.2 | μΑ |

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Low-power buffer with voltage-level translator

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|-----------------------|--------------------------------------|---|-----------------------|-----|------|------|
| Cı | input capacitance | V_{CC} = 0 V to 3.6 V; V_{I} = GND or V_{CC} | - | 0.8 | - | pF |
| Co | output capacitance | $V_O = GND; V_{CC} = 0 V$ | - | 1.7 | - | pF |
| T _{amb} = -4 | 0 °C to +85 °C | | | | | |
| V _{T+} | positive-going threshold | V _{CC} = 2.3 V to 2.7 V | 0.60 | - | 1.10 | V |
| | voltage | V _{CC} = 3.0 V to 3.6 V | 0.75 | - | 1.19 | V |
| V_{T-} | negative-going threshold | V _{CC} = 2.3 V to 2.7 V | 0.35 | - | 0.60 | V |
| | voltage | V _{CC} = 3.0 V to 3.6 V | 0.50 | - | 0.85 | V |
| V _H | hysteresis voltage | $(V_{H} = V_{T+} - V_{T-})$ | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 0.10 | - | 0.60 | V |
| | | V _{CC} = 3.0 V to 3.6 V | 0.15 | - | 0.56 | V |
| V _{OH} | HIGH-level output voltage | $V_I = V_{T+}$ or V_{T-} | | | | |
| | | I_{O} = -20 μ A; V_{CC} = 2.3 V to 3.6 V | V _{CC} - 0.1 | - | - | V |
| | | I_{O} = -2.3 mA; V_{CC} = 2.3 V | 1.97 | - | - | V |
| | | I _O = -3.1 mA; V _{CC} = 2.3 V | 1.85 | - | - | V |
| | | I_{O} = -2.7 mA; V_{CC} = 3.0 V | 2.67 | - | - | V |
| | | I_{O} = -4.0 mA; V_{CC} = 3.0 V | 2.55 | - | - | V |
| V _{OL} | LOW-level output voltage | $V_I = V_{T+}$ or V_{T-} | | | | |
| | | I_{O} = 20 μ A; V_{CC} = 2.3 V to 3.6 V | - | - | 0.1 | V |
| | | I _O = 2.3 mA; V _{CC} = 2.3 V | - | - | 0.33 | V |
| | | I _O = 3.1 mA; V _{CC} = 2.3 V | - | - | 0.45 | V |
| | | I _O = 2.7 mA; V _{CC} = 3.0 V | - | - | 0.33 | V |
| | | I _O = 4.0 mA; V _{CC} = 3.0 V | - | - | 0.45 | V |
| I _I | input leakage current | V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V | - | - | ±0.5 | μA |
| I _{OFF} | power-off leakage current | V_{I} or $V_{O} = 0 \text{ V to } 3.6 \text{ V; } V_{CC} = 0 \text{ V}$ | - | - | ±0.5 | μA |
| Δl _{OFF} | additional power-off leakage current | V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V to 0.2 V | - | - | ±0.5 | μΑ |
| I _{CC} | supply current | V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 2.3 V to 3.6 V | - | - | 1.5 | μА |
| ΔI _{CC} | additional supply current | $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V; } I_{O} = 0 \text{ A}$ [1] | - | - | 0.6 | μA |
| | | $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V; } I_{O} = 0 \text{ A}$ [2] | - | - | 10 | μA |

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Low-power buffer with voltage-level translator

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|-----------------------|--------------------------------------|---|------------------------|-----|-------|------|
| T _{amb} = -4 | 10 °C to +125 °C | | | | J. | |
| V _{T+} | positive-going threshold | V _{CC} = 2.3 V to 2.7 V | 0.60 | - | 1.10 | V |
| | voltage | V _{CC} = 3.0 V to 3.6 V | 0.75 | - | 1.19 | V |
| V _{T-} | negative-going threshold | V _{CC} = 2.3 V to 2.7 V | 0.33 | - | 0.64 | V |
| | voltage | V _{CC} = 3.0 V to 3.6 V | 0.46 | - | 0.85 | V |
| V _H | hysteresis voltage | $(V_{H} = V_{T+} - V_{T-})$ | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 0.10 | - | 0.60 | V |
| | | V _{CC} = 3.0 V to 3.6 V | 0.15 | - | 0.56 | V |
| V _{OH} | HIGH-level output voltage | $V_I = V_{T+}$ or V_{T-} | | | | |
| | | I_{O} = -20 μ A; V_{CC} = 2.3 V to 3.6 V | V _{CC} - 0.11 | - | - | V |
| | | $I_{\rm O}$ = -2.3 mA; $V_{\rm CC}$ = 2.3 V | 1.77 | - | - | V |
| | | I _O = -3.1 mA; V _{CC} = 2.3 V | 1.67 | - | - | V |
| | | I_{O} = -2.7 mA; V_{CC} = 3.0 V | 2.40 | - | - | V |
| | | I_{O} = -4.0 mA; V_{CC} = 3.0 V | 2.30 | - | - | V |
| V _{OL} | LOW-level output voltage | $V_I = V_{T+}$ or V_{T-} | | | | |
| | | I_{O} = 20 μ A; V_{CC} = 2.3 V to 3.6 V | - | - | 0.11 | V |
| | | I_{O} = 2.3 mA; V_{CC} = 2.3 V | - | - | 0.36 | V |
| | | I_{O} = 3.1 mA; V_{CC} = 2.3 V | - | - | 0.50 | V |
| | | I_{O} = 2.7 mA; V_{CC} = 3.0 V | - | - | 0.36 | V |
| | | I_{O} = 4.0 mA; V_{CC} = 3.0 V | - | - | 0.50 | V |
| l _l | input leakage current | V_I = GND to 3.6 V; V_{CC} = 0 V to 3.6 V | - | - | ±0.75 | μΑ |
| I _{OFF} | power-off leakage current | V_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V | - | - | ±0.75 | μΑ |
| Δl _{OFF} | additional power-off leakage current | V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V to 0.2 V | - | - | ±0.75 | μA |
| I _{CC} | supply current | V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 2.3 V to 3.6 V | - | - | 3.5 | μA |
| ΔI _{CC} | additional supply current | $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V; } I_{O} = 0 \text{ A}$ [1] |] _ | - | 1.8 | μΑ |
| | | $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V; } I_{O} = 0 \text{ A}$ | _ | - | 18 | μA |

^[1] One input at 0.3 V or 1.1 V, other input at V_{CC} or GND. [2] One input at 0.45 V or 1.2 V, other input at V_{CC} or GND.

11 Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 7.

| Symbol | Parameter | Conditions | | 25 °C | | -40 °C to +125 °C | | | Unit |
|---------------------|---------------------------------|-----------------------------|-----|--------------------|-----|-------------------|----------------|-----------------|------|
| | | | Min | Typ ^[1] | Max | Min | Max (85 °C) | Max (125 °C) | |
| V _{CC} = 2 | .3 V to 2.7 V; V _I | = 1.65 V to 1.95 V | | | | <u>'</u> | | | |
| t _{pd} | propagation | A, B to Y; see Figure 6 [2] | | | | | | | |
| | delay | C _L = 5 pF | 2.0 | 3.2 | 4.9 | 0.5 | 6.8 | 7.5 | ns |
| | | C _L = 10 pF | 2.4 | 3.8 | 5.6 | 1.0 | 7.9 | 8.7 | ns |
| | | C _L = 15 pF | 2.7 | 4.3 | 6.1 | 1.0 | 8.7 | 9.6 | ns |
| | | C _L = 30 pF | 3.6 | 5.4 | 7.6 | 1.5 | 10.8 | 11.9 | ns |
| V _{CC} = 2 | .3 V to 2.7 V; V _I | = 2.3 V to 2.7 V | | | | | | | |
| t _{pd} | propagation | A, B to Y; see Figure 6 | | | | | | | |
| | delay | C _L = 5 pF | 1.6 | 3.1 | 5.0 | 0.5 | 6.0 | 6.6 | ns |
| | | C _L = 10 pF | 2.0 | 3.7 | 5.7 | 1.0 | 7.1 | 7.9 | ns |
| | | C _L = 15 pF | 2.3 | 4.1 | 6.3 | 1.0 | 7.9 | 8.7 | ns |
| | | C _L = 30 pF | 3.2 | 5.3 | 7.8 | 1.5 | 10.0 | 11.0 | ns |
| V _{CC} = 2 | .3 V to 2.7 V; V _I : | = 3.0 V to 3.6 V | | | | l . | ' | ' | |
| t _{pd} | propagation | A, B to Y; see Figure 6 | | | | | | | |
| | delay | C _L = 5 pF | 1.2 | 2.8 | 4.5 | 0.5 | 5.5 | 6.1 | ns |
| | | C _L = 10 pF | 1.7 | 3.4 | 5.1 | 1.0 | 6.5 | 7.2 | ns |
| | | C _L = 15 pF | 2.0 | 3.9 | 5.7 | 1.0 | 7.4 | 8.2 | ns |
| | | C _L = 30 pF | 2.8 | 5.0 | 7.2 | 1.5 | 9.5 | 10.5 | ns |
| V _{CC} = 3 | .0 V to 3.6 V; V _I : | = 1.65 V to 1.95 V | | | | I | ' | ' | |
| t _{pd} | propagation | A, B to Y; see Figure 6 | | | | | | | |
| | delay | C _L = 5 pF | 1.8 | 2.7 | 3.7 | 0.5 | 8.0 | 8.8 | ns |
| | | C _L = 10 pF | 2.2 | 3.2 | 4.4 | 1.0 | 8.5 | 9.4 | ns |
| | | C _L = 15 pF | 2.7 | 3.7 | 5.0 | 1.0 | 9.1 | 10.1 | ns |
| | | C _L = 30 pF | 3.5 | 4.9 | 6.3 | 1.5 | 9.8 | 10.8 | ns |
| V _{CC} = 3 | .0 V to 3.6 V; V _I : | = 2.3 V to 2.7 V | | | | | | | |
| t _{pd} | propagation | A, B to Y; see Figure 6 | | | | | | | |
| | delay | C _L = 5 pF | 1.4 | 2.6 | 3.8 | 0.5 | 5.3 | 5.9 | ns |
| | | C _L = 10 pF | 1.9 | 3.1 | 4.5 | 1.0 | 6.1 | 6.8 | ns |
| | | C _L = 15 pF | 2.2 | 3.6 | 5.1 | 1.0 | 6.8 | 7.5 | ns |
| | | C _L = 30 pF | 3.0 | 4.8 | 6.6 | 1.5 | 8.5 | 9.4 | ns |

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| Symbol | Parameter | Conditions | | 25 °C | | -40 | °C to +12 | 25 °C | Unit |
|-----------------------|------------------------------|--|-----|--------------------|-----|-----|----------------|-----------------|------|
| | | | Min | Typ ^[1] | Max | Min | Max (85 °C) | Max (125 °C) | |
| $V_{CC} = 3.0$ | V to 3.6 V; V _I = | = 3.0 V to 3.6 V | | | | | | | ' |
| t _{pd} | propagation | A, B to Y; see Figure 6 | | | | | | | |
| | delay | C _L = 5 pF | 1.1 | 2.5 | 4.0 | 0.5 | 4.7 | 5.2 | ns |
| | | C _L = 10 pF | 1.6 | 3.1 | 4.5 | 1.0 | 5.7 | 6.3 | ns |
| | | C _L = 15 pF | 1.9 | 3.6 | 5.1 | 1.0 | 6.2 | 6.9 | ns |
| | | C _L = 30 pF | 2.7 | 4.7 | 6.6 | 1.5 | 7.8 | 8.6 | ns |
| T _{amb} = 25 | 5 °C | | | | | | | | |
| C _{PD} | power | $f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [3] | | | | | | | |
| | dissipation capacitance | V _{CC} = 2.3 V to 2.7 V | - | 4 | - | - | - | - | pF |
| | | V _{CC} = 3.0 V to 3.6 V | - | 5 | - | - | - | - | pF |

f_o = output frequency in MHz;

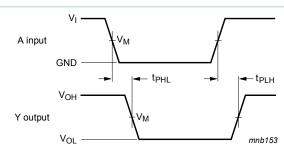
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching; $\Sigma(C_L \times V_{CC}^2 \times f_0) = \text{sum of the outputs.}$

^[1] All typical values are measured at nominal V_{CC} .
[2] t_{pd} is the same as t_{PLH} and t_{PHL} [3] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_0)$ where: $f_i = \text{input frequency in MHz}$

11.1 Waveforms and test circuit



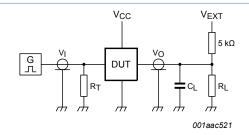
Measurement points are given in Table 9

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

Figure 6. Input A and B to output Y propagation delay times

Table 9. Measurement points

| Supply voltage | Output | Input | | | | | |
|-----------------|-----------------------|----------------------|-----------------|-------------|--|--|--|
| V _{CC} | V _M | V _M | VI | $t_r = t_f$ | | | |
| 2.3 V to 3.6 V | 0.5 × V _{CC} | 0.5 × V _I | 1.65 V to 3.6 V | ≤ 3.0 ns | | | |



Test data is given in Table 10.

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 the output impedance Zo of the pulse generator.

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

Figure 7. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage | Load | | V _{EXT} | | |
|-----------------|------------------------------|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| V _{CC} | CL | R _L ^[1] | t _{PLH} , t _{PHL} | t _{PZH} , t _{PHZ} | t _{PZL} , t _{PLZ} |
| 2.3 V to 3.6 V | 5 pF, 10 pF, 15 pF and 30 pF | 5 k Ω or 1 M Ω | open | GND | 2 × V _{CC} |

^[1] For measuring enable and disable times R_L = 5 $k\Omega.$

For measuring propagation delays, setup and hold times and pulse width R_L = 1 $M\Omega$.

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12 Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm SOT353-1 = v (M) A detail X scale **DIMENSIONS** (mm are the original dimensions) D⁽¹⁾ E⁽¹⁾ $Z^{(1)}$ UNIT С L θ H_{E} Lp у max. 2.25 2.0 2.25 1.85 1.35 1.15 1.0 0.30 0.25 0.46 0.60 0.1 0.15 0.425 mm 1.1 0.3 0.15 0.08

Note

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

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

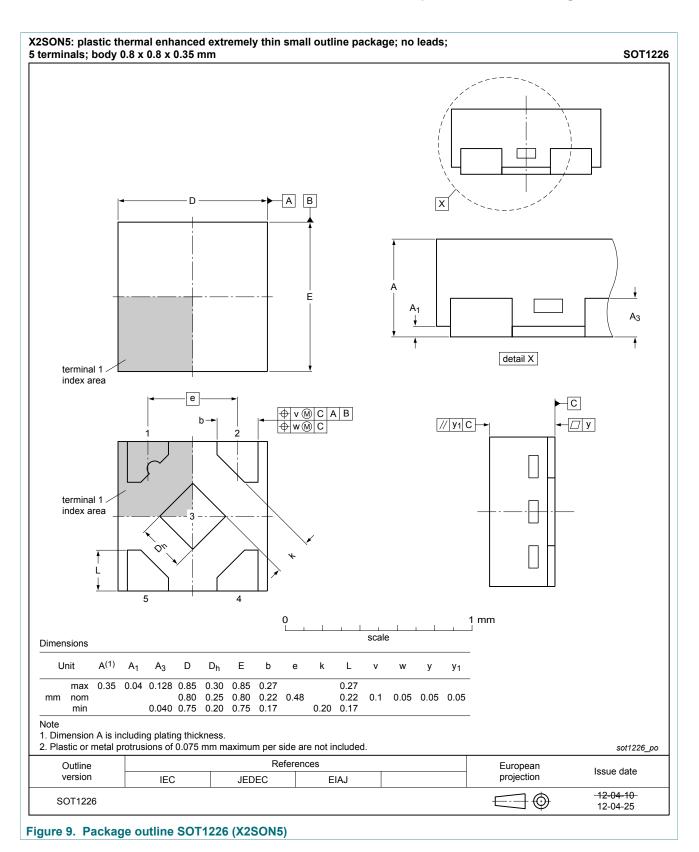
Figure 8. Package outline SOT353-1 (TSSOP5)

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13 Abbreviations

Table 11. Abbreviations

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

14 Revision history

Table 12. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|---------------|--------------|--------------------|---------------|------------|
| 74AUP1T17 v.1 | 20171128 | Product data sheet | - | - |

15 Legal information

15.1 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. |

- Please consult the most recently issued document before initiating or completing a design.
- The term 'short data sheet' is explained in section "Definitions". [2] [3]
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Nexperia 74AUP1T17

Low-power buffer with voltage-level translator

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