# **74AUP1T32**

# Low-power 2-input OR-gate with voltage-level translator Rev. 1 — 23 November 2017 Product data sheet

## 1 General description

The 74AUP1T32 provides the single 2-input OR 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 74AUP1T32 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.

#### 2 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<sub>CC</sub>
- I<sub>OFF</sub> 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					
74AUP1T32GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1					
74AUP1T32GX	-40 °C to +125 °C	X2SON5	X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 × 0.8 × 0.35 mm	SOT1226					

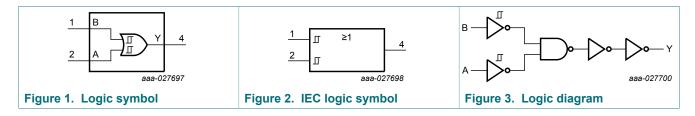
# 4 Marking

#### Table 2. Marking

Type number	Marking code <sup>[1]</sup>
74AUP1T32GW	5B
74AUP1T32GX	5B

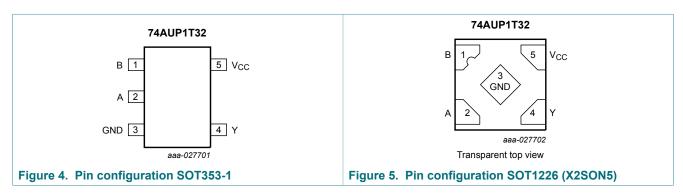
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

## 5 Functional diagram



# 6 Pinning information

#### 6.1 Pinning



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#### 6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
В	1	data input
A	2	data input
GND	3	ground (0 V)
Υ	4	data output
V <sub>CC</sub>	5	supply voltage

# 7 Functional description

Table 4. Function table [1]

Input	Output	
A	В	Υ
L	L	L
L	Н	Н
Н	L	Н
Н	Н	Н

<sup>[1]</sup> H = HIGH voltage level;L = LOW voltage level.

# 8 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 <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0 V	-50	-	mA
V <sub>O</sub>	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
Io	output current	V <sub>O</sub> = 0 V to V <sub>CC</sub>	-	±20	mA
I <sub>CC</sub>	supply current		-	50	mA
$I_{GND}$	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$ [2]	-	250	mW

<sup>[1]</sup> 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<sub>tot</sub> derates linearly with 4.0 mW/K.

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For X2SON5 packages: above 67.5 °C the value of P<sub>tot</sub> derates linearly with 4.0 mW/K.

# 9 Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	supply voltage		2.3	3.6	V
VI	input voltage		0	3.6	V
Vo	output voltage	Active mode	0	V <sub>CC</sub>	V
		Power-down mode; V <sub>CC</sub> = 0 V	0	3.6	V
T <sub>amb</sub>	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 <sub>amb</sub> = 2	5 °C	'				
V <sub>T+</sub>	positive-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.75	-	1.16	V
$V_{T-}$	negative-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.35	-	0.60	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.50	-	0.85	V
V <sub>H</sub>	hysteresis voltage	$(V_{H} = V_{T+} - V_{T-})$				
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.23	-	0.60	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.25	-	0.56	V
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_{O}$ = -20 $\mu$ A; $V_{CC}$ = 2.3 $V$ to 3.6 $V$	V <sub>CC</sub> - 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 <sub>OL</sub>	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_{O}$ = 20 $\mu$ 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
l <sub>l</sub>	input leakage current	$V_{I}$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.1	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_I$ or $V_O = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.1	μΑ
Δl <sub>OFF</sub>	additional power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 0.2 V	-	-	±0.1	μΑ
I <sub>CC</sub>	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A}; V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$	-	-	1.2	μΑ

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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 <sub>amb</sub> = -4	0 °C to +85 °C					
V <sub>T+</sub>	positive-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.75	-	1.19	V
V <sub>T-</sub>	negative-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.35	-	0.60	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.50	-	0.85	V
$V_{H}$	hysteresis voltage	$(V_{H} = V_{T+} - V_{T-})$				
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.10	-	0.60	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.15	-	0.56	V
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_{O}$ = -20 $\mu$ A; $V_{CC}$ = 2.3 V to 3.6 V	V <sub>CC</sub> - 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 <sub>OL</sub>	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_{O}$ = 20 $\mu$ A; $V_{CC}$ = 2.3 $V$ to 3.6 $V$	-	-	0.1	V
		I <sub>O</sub> = 2.3 mA; V <sub>CC</sub> = 2.3 V	-	-	0.33	V
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.45	V
		I <sub>O</sub> = 2.7 mA; V <sub>CC</sub> = 3.0 V	-	-	0.33	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.45	V
II	input leakage current	$V_{I}$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.5	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O} = 0 \text{ V}$ to 3.6 V; $V_{CC} = 0 \text{ V}$	-	-	±0.5	μA
Δl <sub>OFF</sub>	additional power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 0.2 V	-	-	±0.5	μA
I <sub>CC</sub>	supply current	$V_{I} = GND \text{ or } V_{CC}; I_{O} = 0 \text{ A}; V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$	-	-	1.5	μA
$\Delta I_{CC}$	additional supply current	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V; } I_{O} = 0 \text{ A}$ [1]	-	-	0.6	μΑ
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V; } I_{O} = 0 \text{ A}$ [2]	-	-	10	μA

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T <sub>amb</sub> = -4	10 °C to +125 °C					
V <sub>T+</sub>	positive-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.75	-	1.19	V
V <sub>T-</sub>	negative-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.33	-	0.64	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.46	-	0.85	V
V <sub>H</sub>	hysteresis voltage	$(V_{H} = V_{T+} - V_{T-})$				
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.10	-	0.60	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.15	-	0.56	V
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_{O}$ = -20 $\mu$ A; $V_{CC}$ = 2.3 $V$ to 3.6 $V$	V <sub>CC</sub> - 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
		$I_{\rm O}$ = -2.7 mA; $V_{\rm CC}$ = 3.0 V	2.40	-	-	V
		$I_{O}$ = -4.0 mA; $V_{CC}$ = 3.0 V	2.30	-	-	V
V <sub>OL</sub>	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		$I_{O}$ = 20 $\mu$ 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
I <sub>I</sub>	input leakage current	$V_{I}$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.75	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_I$ or $V_O$ = 0 V to 3.6 V; $V_{CC}$ = 0 V	-	-	±0.75	μΑ
Δl <sub>OFF</sub>	additional power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 0.2 V	-	-	±0.75	μΑ
I <sub>CC</sub>	supply current	V <sub>I</sub> = GND or V <sub>CC</sub> ; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 2.3 V to 3.6 V	-	-	3.5	μΑ
Δl <sub>CC</sub>	additional supply current	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V; } I_{O} = 0 \text{ A}$	-	-	1.8	μΑ
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V; } I_O = 0 \text{ A}$	2] _	-	18	μΑ

<sup>[1]</sup> 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 +12	25 °C	Unit
			Min Typ <sup>[1]</sup> Max		Min Max (85 °C)		Max (125 °C)		
V <sub>CC</sub> = 2	.3 V to 2.7 V; V <sub>I</sub>	= 1.65 V to 1.95 V							
t <sub>pd</sub>	propagation	A, B to Y; see Figure 6 [2]							
	delay	C <sub>L</sub> = 5 pF	2.0	3.3	5.0	0.5	6.8	7.5	ns
		C <sub>L</sub> = 10 pF	2.4	3.9	5.7	1.0	7.9	8.7	ns
		C <sub>L</sub> = 15 pF	2.7	4.3	6.4	1.0	8.7	9.6	ns
		C <sub>L</sub> = 30 pF	3.5	5.5	8.0	1.5	10.8	11.9	ns
V <sub>CC</sub> = 2	.3 V to 2.7 V; V <sub>I</sub>	= 2.3 V to 2.7 V							
t <sub>pd</sub>	propagation	A, B to Y; see Figure 6							
	delay	C <sub>L</sub> = 5 pF	1.6	3.1	5.1	0.5	6.0	6.6	ns
		C <sub>L</sub> = 10 pF	1.9	3.7	5.9	1.0	7.1	7.9	ns
		C <sub>L</sub> = 15 pF	2.3	4.2	6.5	1.0	7.9	8.7	ns
		C <sub>L</sub> = 30 pF	3.1	5.4	8.0	1.5	10.0	11.0	ns
V <sub>CC</sub> = 2	.3 V to 2.7 V; V <sub>I</sub>	= 3.0 V to 3.6 V							
t <sub>pd</sub>	propagation	A, B to Y; see Figure 6							
	delay	C <sub>L</sub> = 5 pF	1.2	2.9	4.5	0.5	5.5	6.1	ns
		C <sub>L</sub> = 10 pF	1.6	3.5	5.3	1.0	6.5	7.2	ns
		C <sub>L</sub> = 15 pF	1.9	3.9	5.9	1.0	7.4	8.2	ns
		C <sub>L</sub> = 30 pF	2.8	5.1	7.4	1.5	9.5	10.5	ns
V <sub>CC</sub> = 3	.0 V to 3.6 V; V <sub>I</sub>	= 1.65 V to 1.95 V							
t <sub>pd</sub>	propagation	A, B to Y; see Figure 6 [2]							
	delay	C <sub>L</sub> = 5 pF	1.8	2.7	3.7	0.5	8.0	8.8	ns
		C <sub>L</sub> = 10 pF	2.2	3.3	4.5	1.0	8.5	9.4	ns
		C <sub>L</sub> = 15 pF	2.6	3.7	5.0	1.0	9.1	10.1	ns
		C <sub>L</sub> = 30 pF	3.4	4.9	6.4	1.5	9.8	10.8	ns
V <sub>CC</sub> = 3	.0 V to 3.6 V; V <sub>I</sub>	= 2.3 V to 2.7 V					1	1	
t <sub>pd</sub>	propagation	A, B to Y; see Figure 6 [2]							
	delay	C <sub>L</sub> = 5 pF	1.5	2.6	3.9	0.5	5.3	5.9	ns
		C <sub>L</sub> = 10 pF	1.9	3.2	4.7	1.0	6.1	6.8	ns
		C <sub>L</sub> = 15 pF	2.2	3.7	5.3	1.0	6.8	7.5	ns
		C <sub>L</sub> = 30 pF	2.9	4.8	6.8	1.5	8.5	9.4	ns

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Symbol	Parameter Conditions		25 °C		-40 °C to +125 °C			Unit	
			Min	Typ <sup>[1]</sup>	Max	Min	Max (85 °C)	Max (125 °C)	
V <sub>CC</sub> = 3.0	V to 3.6 V; V <sub>I</sub> =	= 3.0 V to 3.6 V							'
t <sub>pd</sub>	propagation	A, B to Y; see Figure 6							
	delay	C <sub>L</sub> = 5 pF	1.1	2.6	4.0	0.5	4.7	5.2	ns
		C <sub>L</sub> = 10 pF	1.5	3.1	4.8	1.0	5.7	6.3	ns
		C <sub>L</sub> = 15 pF	1.8	3.6	5.4	1.0	6.2	6.9	ns
		C <sub>L</sub> = 30 pF	2.6	4.7	7.0	1.5	7.8	8.6	ns
T <sub>amb</sub> = 25	S °C								
C <sub>PD</sub>	power	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [3]							
	dissipation capacitance	V <sub>CC</sub> = 2.3 V to 2.7 V	-	4	-	-	-	-	pF
	oupaoitarioc	V <sub>CC</sub> = 3.0 V to 3.6 V	-	5	-	-	-	-	pF

<sup>[1]</sup> All typical values are measured at nominal  $V_{\text{CC}}$ .

f<sub>o</sub> = output frequency in MHz;

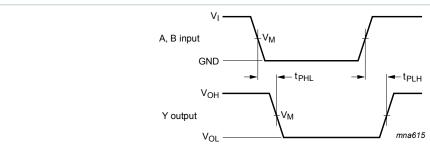
C<sub>L</sub> = output load capacitance in pF;

V<sub>CC</sub> = supply voltage in V;

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

 <sup>[2]</sup> t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>
 [3] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in μW).
 P<sub>D</sub> = C<sub>PD</sub> x V<sub>CC</sub><sup>2</sup> x f<sub>i</sub> x N + Σ(C<sub>L</sub> x V<sub>CC</sub><sup>2</sup> x f<sub>o</sub>) where:
 f<sub>i</sub> = input frequency in MHz;

#### 11.1 Waveforms and test circuit



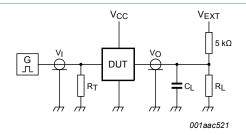
Measurement points are given in Table 9

V<sub>OL</sub> and V<sub>OH</sub> 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 <sub>CC</sub>	V <sub>M</sub>	V <sub>M</sub>	VI	$t_r = t_f$			
2.3 V to 3.6 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>I</sub>	1.65 V to 3.6 V	≤ 3.0 ns			



Test data is given in Table 10.

Definitions for test circuit:

R<sub>L</sub> = Load resistance.

C<sub>L</sub> = Load capacitance including jig and probe capacitance.

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

V<sub>EXT</sub> = External voltage for measuring switching times.

Figure 7. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Load		V <sub>EXT</sub>				
V <sub>CC</sub>	CL	R <sub>L</sub> <sup>[1]</sup>	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>		
2.3 V to 3.6 V	5 pF, 10 pF, 15 pF and 30 pF	5 kΩ or 1 MΩ	open	GND	2 × V <sub>CC</sub>		

<sup>[1]</sup> 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 3 mm scale **DIMENSIONS** (mm are the original dimensions)

UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(1)</sup>	е	e <sub>1</sub>	HE	L	Lp	v	w	у	Z <sup>(1)</sup>	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°

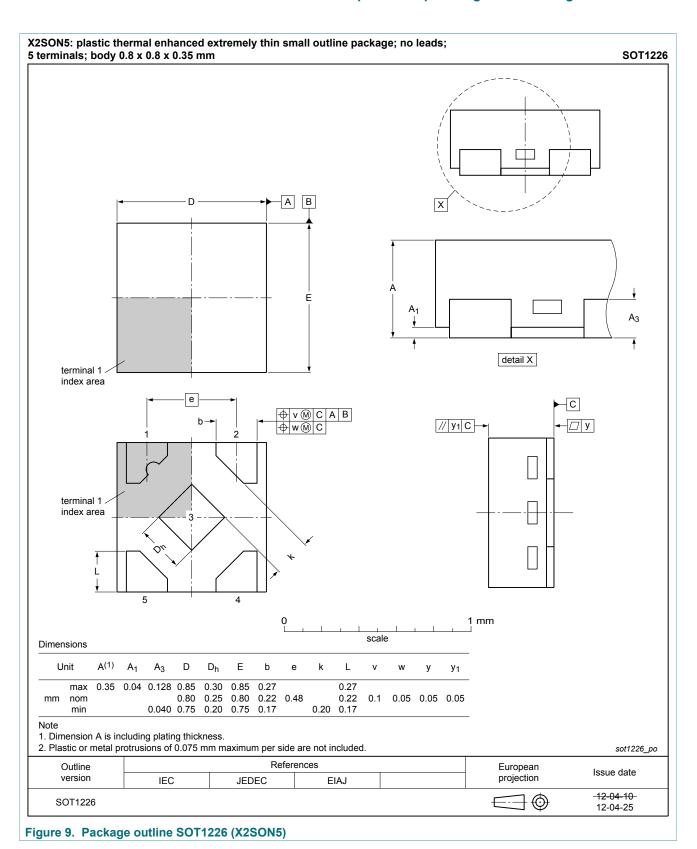
#### Note

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

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT353-1		MO-203	SC-88A			<del>-00-09-01</del> 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
74AUP1T32 v.1	20171123	Product data sheet	-	-

# 15 Legal information

#### 15.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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.

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- The term 'short data sheet' is explained in section "Definitions". [2] [3]
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