# **74AXP1T34** Dual supply translating buffer Rev. 1 – 22 December 2015

Product data sheet

# 1. General description

The 74AXP1T34 is a dual supply translating buffer. It features one input (A), an output (Y) and dual supply pins ( $V_{CCI}$  and  $V_{CCO}$ ). The inputs are referenced to  $V_{CCI}$  and the output is referenced to  $V_{CCO}$ . All inputs can be connected directly to  $V_{CCI}$  or GND.  $V_{CCI}$  can be supplied at any voltage between 0.7 V and 2.75 V and V<sub>CCO</sub> can be supplied at any voltage between 1.2 V and 5.5 V. This feature allows voltage level translation.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device ensures very low static and dynamic power consumption across the entire supply range and is fully specified for partial power down applications using I<sub>OFF</sub>. The I<sub>OFF</sub> circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

### Features and benefits 2.

- Wide supply voltage range:
  - V<sub>CCI</sub>: 0.7 V to 2.75 V
  - V<sub>CCO</sub>: 1.2 V to 5.5 V
- Low input capacitance; C<sub>1</sub> = 0.6 pF (typical)
- Low output capacitance; C<sub>O</sub> = 1.8 pF (typical)
- Low dynamic power consumption; C<sub>PD</sub> = 0.4 pF at V<sub>CCI</sub> = 1.2 V (typical)
- Low dynamic power consumption; C<sub>PD</sub> = 7.1 pF at V<sub>CCO</sub> = 3.3 V (typical)
- Low static power consumption;  $I_{CCI} = 0.5 \mu A$  (85 °C maximum)
- Low static power consumption; I<sub>CCO</sub> = 1.8 μA (85 °C maximum)
- High noise immunity
- Complies with JEDEC standard:
  - JESD8-12A.01 (1.1 V to 1.3 V; A input)
  - JESD8-11A.01 (1.4 V to 1.6 V)
  - JESD8-7A (1.65 V to 1.95 V)
  - JESD8-5A.01 (2.3 V to 2.7 V)
  - JESD8-C (2.7 V to 3.6 V; Y output)
  - JESD12-6 (4.5 V to 5.5 V; Y output)
- ESD protection:
  - HBM ANSI/ESDA/JEDEC JS-001 Class 2 exceeds 2 kV
  - CDM JESD22-C101E exceeds 1000 V
- Latch-up performance exceeds 100 mA per JESD78D Class II
- Inputs accept voltages up to 2.75 V

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- Low noise overshoot and undershoot < 10% of V<sub>CCO</sub>
- I<sub>OFF</sub> circuitry provides partial power-down mode operation
- Multiple package options
- Specified from –40 °C to +85 °C

# 3. Ordering information

### Table 1.Ordering information

Type number	Package	Package									
	Temperature range	Name	Description	Version							
74AXP1T34GW	–40 °C to +85 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1							
74AXP1T34GM	–40 °C to +85 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 $\times$ 1.45 $\times$ 0.5 mm	SOT886							
74AXP1T34GN	–40 °C to +85 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $0.9 \times 1.0 \times 0.35$ mm	SOT1115							
74AXP1T34GS	–40 °C to +85 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $1.0 \times 1.0 \times 0.35$ mm	SOT1202							
74AXP1T34GX	–40 °C to +85 °C	X2SON5	X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body $0.8 \times 0.8 \times 0.35$ mm	SOT1226							

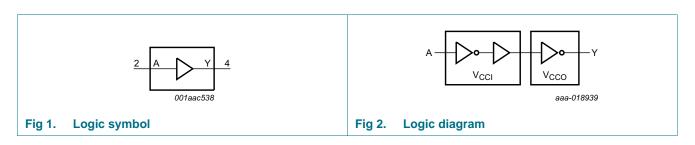
# 4. Marking

### Table 2. Marking

Type number	Marking code <sup>[1]</sup>
74AXP1T34GW	rQ
74AXP1T34GM	rQ
74AXP1T34GN	rQ
74AXP1T34GS	rQ
74AXP1T34GX	rQ

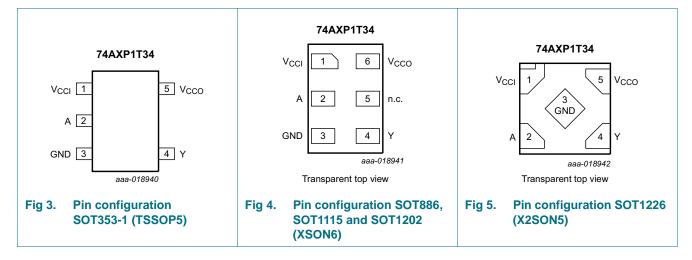
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 5. Functional diagram



# 6. Pinning information

## 6.1 Pinning



### 6.2 Pin description

#### Table 3. **Pin description** Symbol Pin Description **TSSOP5 and X2SON5** XSON6 1 V<sub>CCI</sub> 1 input supply voltage А 2 2 data input A GND 3 3 ground (0 V) Y 4 4 data output Y 5 \_ not connected n.c. 5 6 output supply voltage Vcco

# 7. Functional description

### Table 4.Function table

Supply voltage		Input	Output
V <sub>CCI</sub>	V <sub>cco</sub>	Α	Y
0.7 V to 2.75 V	1.2 V to 5.5 V	L	L
0.7 V to 2.75 V	1.2 V to 5.5 V	Н	Н
GND	1.2 V to 5.5 V	Х	Z
0.7 V to 2.75 V	GND	X	Z
GND	GND	X	Z

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

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# 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 <sub>CCI</sub>	input supply voltage		-0.5	3.3	V
V <sub>CCO</sub>	output supply voltage		-0.5	6.0	V
I <sub>IK</sub>	input clamping current	V <sub>1</sub> < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	3.3	V
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0 V	-50	-	mA
Vo	output voltage	Active mode [1][2]	-0.5	V <sub>CCO</sub> + 0.5	V
		Power-down or 3-state mode [1]	-0.5	6.0	V
lo	output current	$V_{O} = 0 V$ to $V_{CCO}$	-	±25	mA
I <sub>CCI</sub>	input supply current		-	50	mA
Icco	output supply current		-	50	mA
I <sub>GND</sub>	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 \text{ °C to } +85 \text{ °C} $	-	250	mW

[1] The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed.

[2]  $V_{CCO}$  + 0.5 V should not exceed 6.0 V.

# 9. Recommended operating conditions

### Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CCI</sub>	input supply voltage		0.7	2.75	V
V <sub>CCO</sub>	output supply voltage		1.2	5.5	V
VI	input voltage		0	2.75	V
Vo	output voltage	Active mode	0	V <sub>cco</sub>	V
		Power-down or 3-state mode	0	5.5	V
T <sub>amb</sub>	ambient temperature		-40	+85	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CCI</sub> = 0.7 V to 2.75 V	0	200	ns/V

# **10. Static characteristics**

### Table 7. Static characteristics

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

Symbol	Parameter	Conditions			$T_{amb} = -40$	°C to +85 °	C	Unit
				Min	Typ 25 °C	Max 25 °C	Max 85 °C	
VIH	HIGH-level input	$V_{CCI} = 0.75 \text{ V} \text{ to } 0.85 \text{ V}$		0.75V <sub>CCI</sub>	-	-	-	V
	voltage	V <sub>CCI</sub> = 1.1 V to 1.95 V		0.65V <sub>CCI</sub>	-	-	-	V
		$V_{CCI} = 2.3 \text{ V to } 2.7 \text{ V}$		1.6	-	-	-	V
VIL	LOW-level input	$V_{CCI} = 0.75 V \text{ to } 0.85 V$		-	-	0.25V <sub>CCI</sub>	0.25V <sub>CCI</sub>	V
	voltage	V <sub>CCI</sub> = 1.1 V to 1.95 V		-	-	0.35V <sub>CCI</sub>	0.35V <sub>CCI</sub>	V
		$V_{CCI} = 2.3 \text{ V to } 2.7 \text{ V}$		-	-	0.7	0.7	V
V <sub>OH</sub>	HIGH-level output	$I_0 = -2 \text{ mA}; V_{CCO} = 1.2 \text{ V}$	[1]	-	1.05	-	-	V
	voltage	$I_{O} = -3 \text{ mA}; V_{CCO} = 1.4 \text{ V}$		1.05	-	-	-	V
		$I_{O} = -4.5 \text{ mA}; V_{CCO} = 1.65 \text{ V}$		1.2	-	-	-	V
		$I_{O} = -8 \text{ mA}; V_{CCO} = 2.3 \text{ V}$		1.7	-	-	-	V
		$I_{O} = -10 \text{ mA}; V_{CCO} = 3.0 \text{ V}$		2.2	-	-	-	V
		$I_{O} = -12 \text{ mA}; V_{CCO} = 4.5 \text{ V}$		3.7	-	-	-	V
	LOW-level output	$I_0 = 2 \text{ mA}; V_{CCO} = 1.2 \text{ V}$	[1]	-	0.18	-	-	V
	voltage	I <sub>O</sub> = 3 mA; V <sub>CCO</sub> = 1.4 V		-	-	0.35	0.35	V
		I <sub>O</sub> = 4.5 mA; V <sub>CCO</sub> = 1.65 V		-	-	0.45	0.45	V
		I <sub>O</sub> = 8 mA; V <sub>CCO</sub> = 2.3 V		-	-	0.7	0.7	V
		I <sub>O</sub> = 10 mA; V <sub>CCO</sub> = 3.0 V		-	-	0.8	0.8	V
		$I_0 = 12 \text{ mA}; V_{CCO} = 4.5 \text{ V}$		-	-	0.8	0.8	V
lı	input leakage current	$V_{I} = 0 V \text{ to } 2.75 V;$ $V_{CCI} = 0 V \text{ to } 2.75 V$	[1]	-	±0.001	±0.1	±0.5	μA
I <sub>OZ</sub>	OFF-state output current	$V_{O} = 0 V \text{ to } 5.5 V;$ $V_{CCO} = 1.2 V \text{ to } 5.5 V$		-	±0.001	±0.1	±0.5	μA
I <sub>OFF</sub>	power-off leakage current	inputs; $V_I = 0 V$ to 2.75 V; $V_{CCI} = 0 V$ ; $V_{CCO} = 0 V$ to 5.5 V	[1]	-	±0.01	±0.1	±0.5	μA
		output; $V_O = 0 V$ to 5.5 V; $V_{CCO} = 0 V$ ; $V_{CCI} = 0 V$ to 2.75 V; $V_I = 0 V$ to 2.75 V	[1]	-	±0.01	±0.1	±0.5	μA
∆l <sub>OFF</sub>	additional power-off leakage current	inputs; $V_I = 0 V \text{ or } 2.75 V$ ; $V_{CCI} = 0 V \text{ to } 0.1 V$ ; $V_{CCO} = 0 V \text{ to } 5.5 V$	[1]	-	±0.02	±0.1	±0.5	μA
		$\begin{array}{l} \text{output; } V_{O} = 0 \ V \ \text{or} \ 5.5 \ \text{V}; \\ V_{CCO} = 0 \ V \ \text{to} \ 0.1 \ \text{V}; \\ V_{CCI} = 0 \ V \ \text{to} \ 2.75 \ \text{V}; \\ V_{I} = 0 \ V \ \text{or} \ 2.75 \ \text{V} \end{array}$	[1]	-	±0.02	±0.1	±0.5	μA

[1] Typical values are measured at  $V_{CCI} = V_{CCO} = 1.2$  V unless otherwise specified.

### Table 8. Static characteristics supply current

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

Symbol	Parameter	Conditions		T <sub>amb</sub> = -40	°C to +85 °C		Unit
			Typ 25 °C	Max 25 °C	Тур 85 °С	Max 85 °C	
I <sub>CCI</sub>	input supply	$V_I = 0 V \text{ or } V_{CCI};$					
	current	V <sub>CCI</sub> = 0.7 V to 1.3 V [1]	1	100	10	300	nA
		V <sub>CCI</sub> = 1.3 V to 2.75 V [2]	1	100	20	500	nA
		$V_{CCI} = 2.75 \text{ V}; V_{CCO} = 0 \text{ V}$	1	100	20	500	nA
		$V_{CCI} = 0 \text{ V}; V_{CCO} = 5.5 \text{ V}$	1	100	1	100	nA
I <sub>CCO</sub>	output supply current	$V_I = 0 V \text{ or } V_{CCI}; I_O = 0 A;$ see <u>Table 9</u>					
		$V_{CCO} = 1.2 \text{ V to } 3.6 \text{ V}$ [1]	0.001	1.0	0.01	1.2	μA
		V <sub>CCO</sub> = 3.6 V to 5.5 V [3]	0.8	1.5	1.0	1.8	μA
		$V_{CCI} = 2.75 \text{ V}; V_{CCO} = 0 \text{ V}$	0.001	0.1	0.003	0.2	μA
		$V_{CCI} = 0 V; V_{CCO} = 3.6 V$	0.2	0.6	0.3	0.8	μA
		$V_{CCI} = 0 \text{ V}; V_{CCO} = 5.5 \text{ V}$	0.4	0.8	0.5	1.0	μA
ΔI <sub>CCI</sub>	additional input supply current	$V_{I} = V_{CCI} - 0.5 \text{ V}; V_{CCI} = 2.5 \text{ V}$	2	100	14	150	μA

[1] Typical values are measured at V\_{CCI} = V\_{CCO} = 1.2 V.

[2] Typical values are measured at V\_{CCI} = V\_{CCO} = 2.5 V.

[3] Typical values are measured at V<sub>CCI</sub> = 1.2 V and V<sub>CCO</sub> = 5.0 V.

### Table 9.Typical output supply current (I<sub>CCO</sub>)

V <sub>CCI</sub>	V <sub>cco</sub>							Unit
	0 V	1.2 V	1.5 V	1.8 V	2.5 V	3.3 V	5.0 V	
0 V	0	1	5	20	100	200	400	nA
0.8 V	1	10	150	200	300	500	800	nA
1.2 V	1	1	5	200	300	500	800	nA
1.5 V	1	1	5	100	300	500	800	nA
1.8 V	1	1	5	100	300	500	800	nA
2.5 V	1	1	5	100	100	500	800	nA

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# **11. Dynamic characteristics**

### Table 10. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 13; for wave form see Figure 6.

Symbol	Parameter	Conditions	V <sub>cco</sub>							
			1.2 V	1	.5 V ± 0.1	v	1.8	3 V ± 0.15	۷	
			Typ <mark>[1]</mark>	Min	Typ[1]	Max	Min	Typ <mark>[1]</mark>	Max	
T <sub>amb</sub> = 2	5 °C	1								_
t <sub>pd</sub>	propagation	A to Y [2]								
	delay	$V_{CCI} = 0.75 \text{ V to } 0.85 \text{ V}$	22	3	16	61	3	15	57	ns
		V <sub>CCI</sub> = 1.1 V to 1.3 V	16.2	3.1	10.3	19.8	2.8	8.2	15.8	ns
		V <sub>CCI</sub> = 1.4 V to 1.6 V	15.4	2.8	9.5	18.2	2.5	7.4	13.2	ns
		V <sub>CCI</sub> = 1.65 V to 1.95 V	15.0	2.7	9.1	17.4	2.4	7.0	11.9	ns
		$V_{CCI}$ = 2.3 V to 2.7 V	14.7	2.5	8.7	16.9	2.2	6.6	11.1	ns
T <sub>amb</sub> = -	40 °C to +85	°C								_
t <sub>pd</sub>	propagation	A to Y [2]								
	delay	V <sub>CCI</sub> = 0.75 V to 0.85 V	22	3	16	136	3	15	133	ns
		V <sub>CCI</sub> = 1.1 V to 1.3 V	16.2	3.1	10.3	19.8	2.8	8.2	15.8	ns
		V <sub>CCI</sub> = 1.4 V to 1.6 V	15.4	2.8	9.5	18.2	2.5	7.4	13.2	ns
		V <sub>CCI</sub> = 1.65 V to 1.95 V	15.0	2.7	9.1	17.4	2.4	7.0	11.9	ns
		$V_{CCI}$ = 2.3 V to 2.7 V	14.7	2.5	8.7	16.9	2.2	6.6	11.1	ns
t <sub>t</sub>	transition time	$V_{CCI} = 0.75 V \text{ to } 2.7 V$ [3]	-	1.0	-	-	1.0	-	-	ns

[1] Typical values are measured at nominal supply voltages and  $T_{amb}$  = +25 °C.

[2]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .

[3]  $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ .

### Table 11. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see <u>Figure 13</u>; for wave form see <u>Figure 6</u>.

Symbol	Parameter	Conditions	V <sub>cco</sub>								Unit	
			2.5 V ± 0.2 V			3.3 V ± 0.3 V			$5.0 V \pm 0.5 V$			
			Min	Typ <mark>[1]</mark>	Max	Min	Typ <mark>[1]</mark>	Max	Min	Typ <mark>[1]</mark>	Мах	
T <sub>amb</sub> = 2	5 °C	-										
t <sub>pd</sub>	propagation	A to Y [2]										
	delay	$V_{CCI} = 0.75 \text{ V to } 0.85 \text{ V}$	2	13	57	2	13	65	2	14	77	ns
		V <sub>CCI</sub> = 1.1 V to 1.3 V	2.4	6.5	10.8	2.2	5.9	9.5	2.1	5.6	9.0	ns
		V <sub>CCI</sub> = 1.4 V to 1.6 V	2.1	5.7	9.1	2.0	5.1	8.2	1.9	4.8	7.7	ns
		V <sub>CCI</sub> = 1.65 V to 1.95 V	2.0	5.3	8.7	1.8	4.7	7.7	1.8	4.4	7.3	ns
		$V_{CCI} = 2.3 \text{ V to } 2.7 \text{ V}$	1.9	4.9	8.1	1.7	4.3	7.1	1.6	4.0	6.6	ns
T <sub>amb</sub> = -	40 °C to +85	°C										
t <sub>pd</sub>	propagation	A to Y [2]										
	delay	$V_{CCI} = 0.75 \text{ V to } 0.85 \text{ V}$	2	13	152	2	13	179	2	14	210	ns
		V <sub>CCI</sub> = 1.1 V to 1.3 V	2.4	6.5	10.8	2.2	5.9	9.5	2.1	5.6	9.0	ns
		V <sub>CCI</sub> = 1.4 V to 1.6 V	2.1	5.7	9.1	2.0	5.1	8.2	1.9	4.8	7.7	ns
		V <sub>CCI</sub> = 1.65 V to 1.95 V	2.0	5.3	8.7	1.8	4.7	7.7	1.8	4.4	7.3	ns
		$V_{CCI} = 2.3 \text{ V to } 2.7 \text{ V}$	1.9	4.9	8.1	1.7	4.3	7.1	1.6	4.0	6.6	ns
t <sub>t</sub>	transition time	$V_{CCI} = 0.75 V \text{ to } 2.7 V$ [3]	1.0	-	-	1.0	-	-	1.0	-	-	ns

[1] Typical values are measured at nominal supply voltages and  $t_{amb}$  = +25 °C.

[2]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .

[3]  $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ .

### Table 12. Typical dynamic characteristics at $T_{amb} = 25 \text{ °C}$

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 13; for wave form see Figure 6.

Symbol	Parameter	Conditions				٧c	co			Unit
				1.2 V	1.5 V	1.8 V	2.5 V	3.3 V	5.0 V	
C <sub>PD</sub>	power	$f_i = 1 \text{ MHz}; R_L = \infty \Omega; V_I = 0 \text{ V to } V_{CCI}$	[1]							
	dissipation capacitance	input supply	[2]							
	capacitance	V <sub>CCI</sub> = 0.8 V		0.4	0.4	0.4	0.4	0.4	0.4	pF
		V <sub>CCI</sub> = 1.2 V		0.4	0.4	0.4	0.4	0.4	0.4	pF
		V <sub>CCI</sub> = 1.5 V		0.5	0.5	0.5	0.5	0.5	0.5	pF
		V <sub>CCI</sub> = 1.8 V		0.5	0.5	0.5	0.5	0.5	0.5	pF
		V <sub>CCI</sub> = 2.5 V		0.7	0.7	0.7	0.7	0.7	0.7	pF
		output supply	[3]							
		V <sub>CCI</sub> = 0.8 V		6.7	6.8	6.8	6.9	7.5	9.5	pF
		V <sub>CCI</sub> = 1.2 V		6.8	6.9	7.0	7.0	7.1	7.6	pF
		V <sub>CCI</sub> = 1.5 V		6.9	6.9	6.9	7.0	7.1	7.6	pF
		V <sub>CCI</sub> = 1.8 V		6.9	6.9	6.9	7.0	7.2	7.6	pF
		$V_{CCI} = 2.5 V$		6.9	7.0	7.0	7.0	7.2	7.6	pF
Cı	input capacitance	$V_I = 0 V \text{ or } V_{CCI}; V_{CCI} = 0 V \text{ to } 2.7 V$		0.6	0.6	0.6	0.6	0.6	0.6	pF
C <sub>O</sub>	output capacitance	$V_{O} = 0 V; V_{CCO} = 0 V$		1.8	1.8	1.8	1.8	1.8	1.8	pF

[1]  $C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in  $\mu$ W).

[2] Power dissipated from input supply (V<sub>CCI</sub>)

 $P_D = C_{PD} \times V_{CCI}^2 \times f_i \times N$  where:

 $C_{\text{PD}}$  = power dissipation capacitance of the input supply.

 $V_{CCI}$  = input supply voltage in V;

 $f_i$  = input frequency in MHz;

N = number of inputs switching;

[3] Power dissipated from output supply ( $V_{CCO}$ )

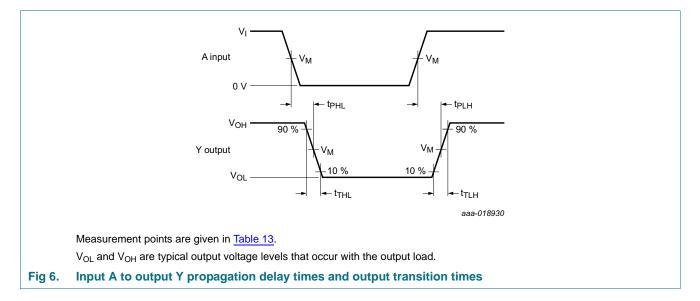
 $\mathsf{P}_\mathsf{D}$  = (C\_L + C\_{\mathsf{PD}}) \times V\_{\mathsf{CCO}}{}^2 \times \mathsf{f}\_o where:

 $C_L$  = load capacitance in pF;

 $C_{\mbox{PD}}$  = power dissipation capacitance of the output supply.

 $V_{CCO}$  = output supply voltage in V;

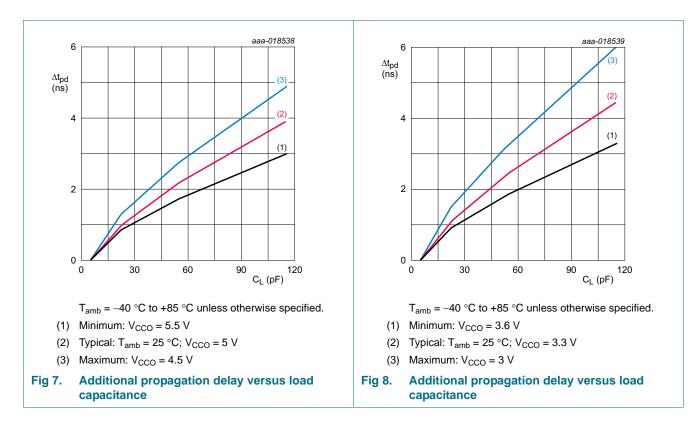
 $f_o = output frequency in MHz;$ 

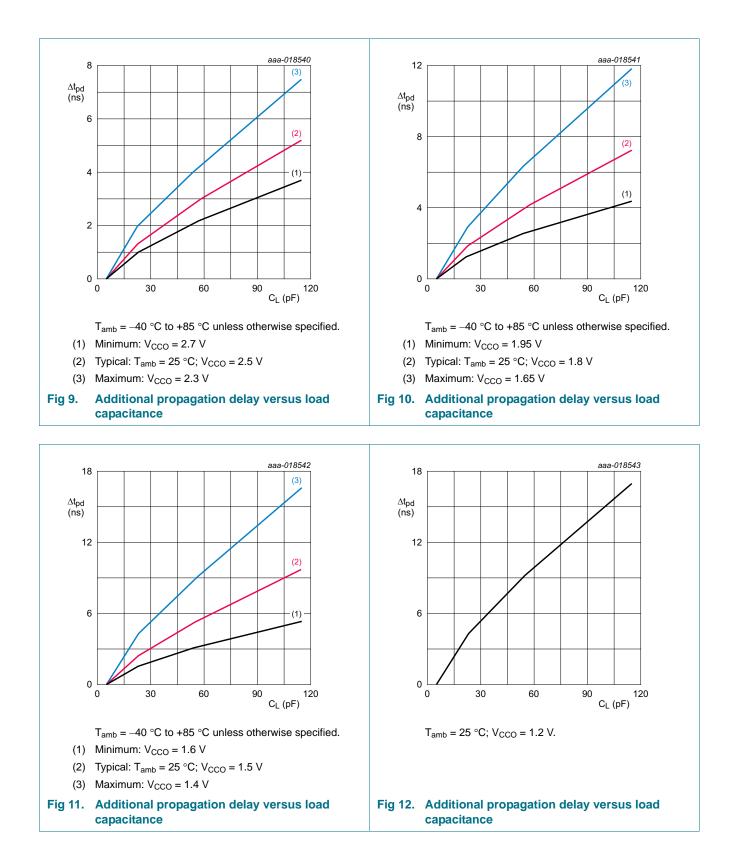


# 11.1 Waveforms and graphs

 Table 13.
 Measurement points

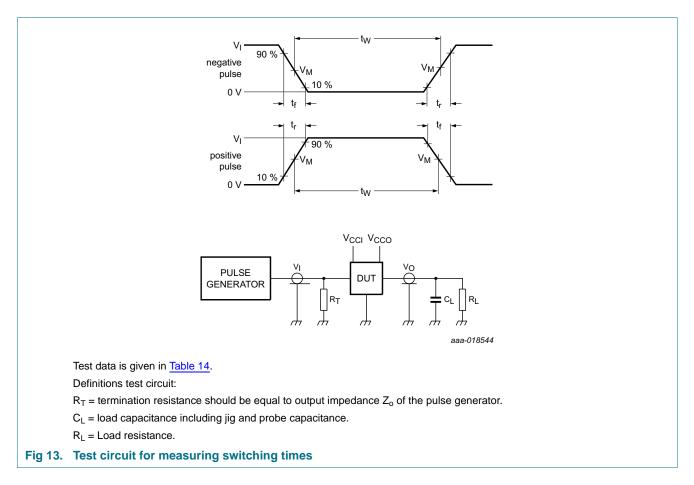
Supply voltage		Output Input		
V <sub>CCI</sub>	V <sub>cco</sub>	V <sub>M</sub>	V <sub>M</sub>	VI
0.75 V to 2.7 V	1.2 V to 5.5 V	0.5V <sub>CCO</sub>	0.5V <sub>CCI</sub>	V <sub>CCI</sub>





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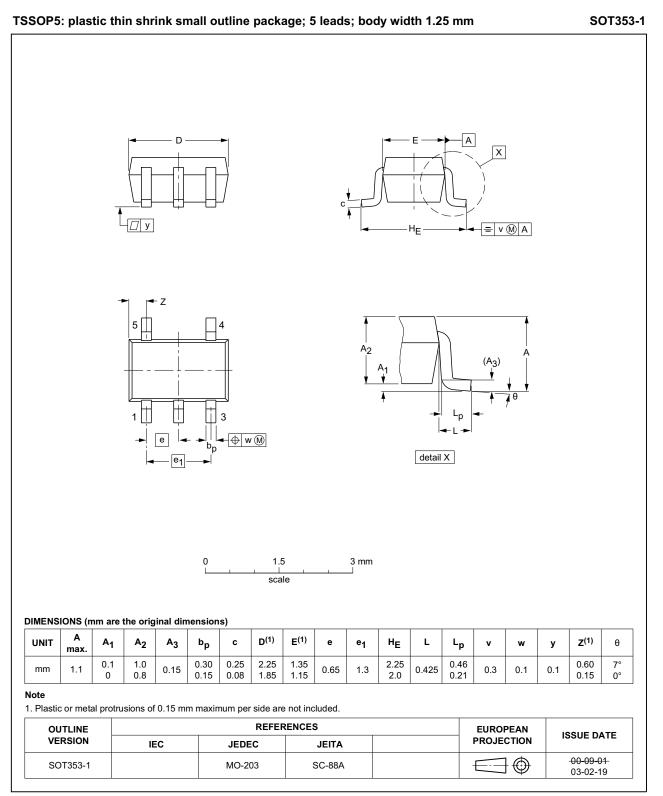
### **Dual supply translating buffer**



### Table 14. Test data

Supply voltage		Load		Input	
V <sub>CCI</sub>	V <sub>cco</sub>	CL	RL	t <sub>r</sub> , t <sub>f</sub>	VI
0.75 V to 2.7 V	1.2 V to 5.5 V	5 pF	5 kΩ	≤3.0 ns	V <sub>CCI</sub>

# 12. Package outline



### Fig 14. Package outline SOT353-1 (TSSOP5)

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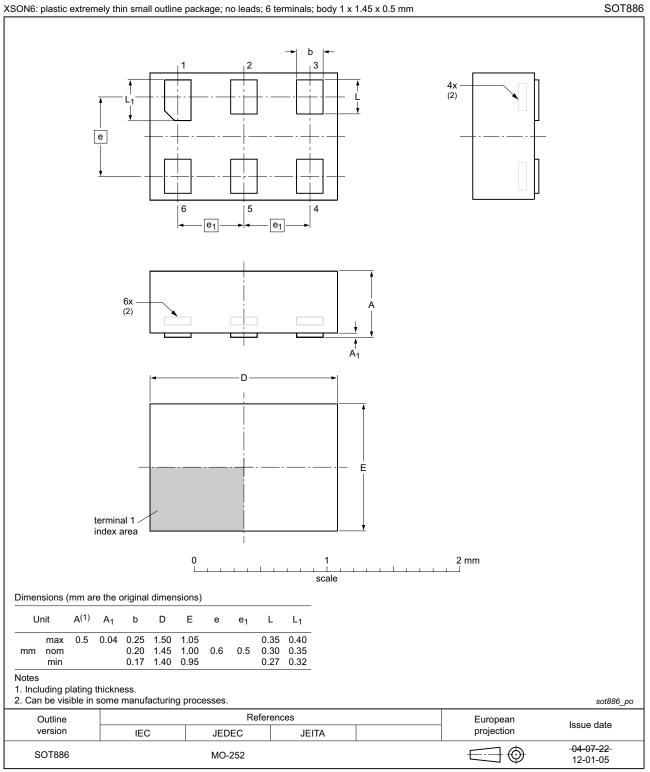
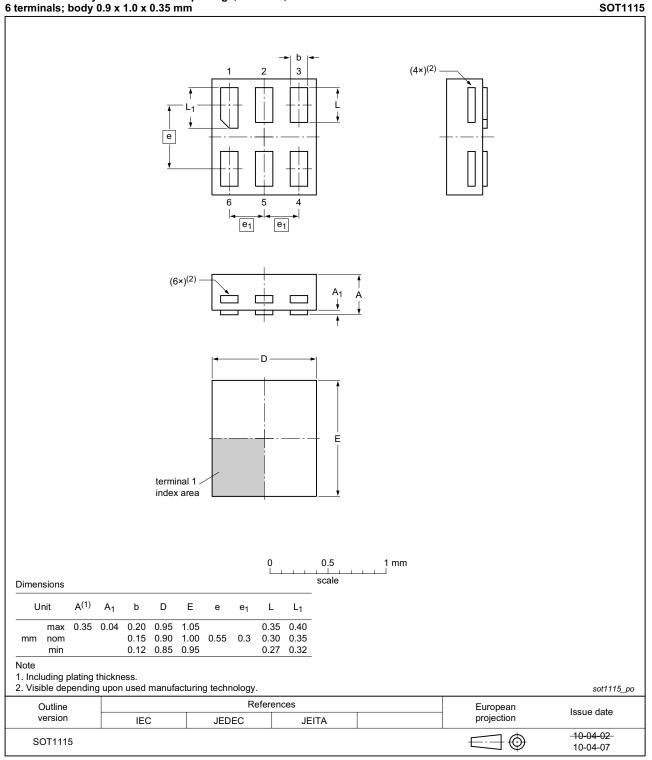


Fig 15. Package outline SOT886 (XSON6)

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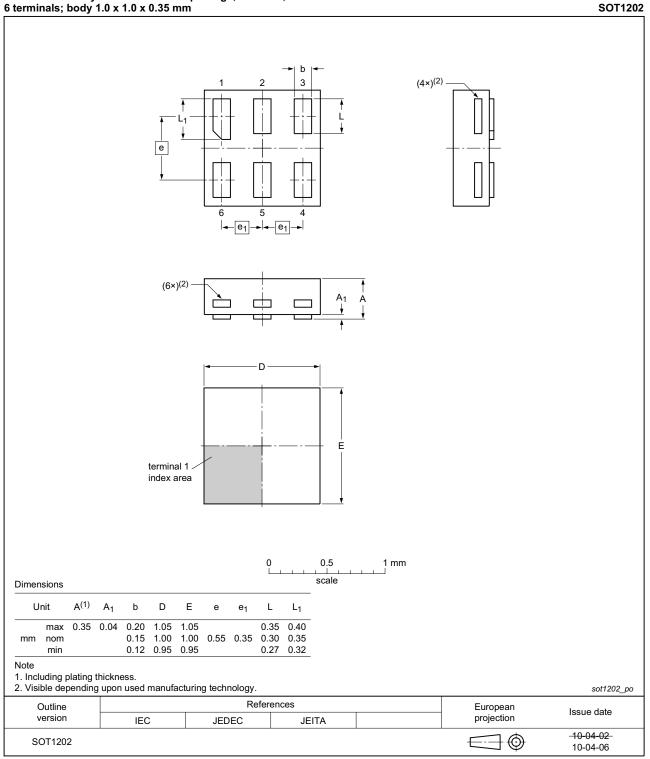
**Product data sheet** 



XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

### Fig 16. Package outline SOT1115 (XSON6)

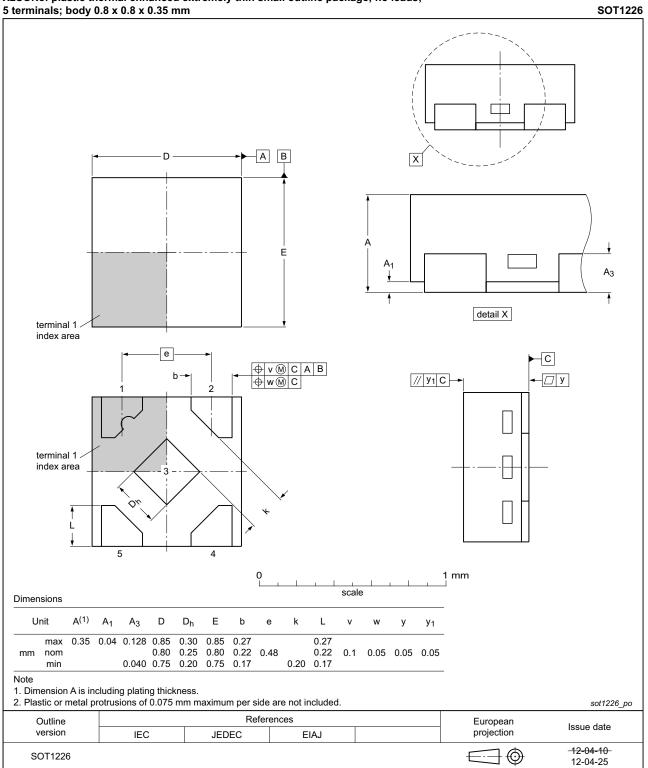
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XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm

### Fig 17. Package outline SOT1202 (XSON6)

# 74AXP1T34 **Dual supply translating buffer**



X2SON5: plastic thermal enhanced extremely thin small outline package; no leads;

### Fig 18. Package outline SOT1226 (X2SON5)

**Product data sheet** 

# **13. Abbreviations**

Table 15. Abbreviations		
Acronym	Description	
CDM	Charged Device Model	
DUT	Device Under Test	
ESD	ElectroStatic Discharge	
НВМ	Human Body Model	

# 14. Revision history

### Table 16.Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AXP1T34 v.1	20151222	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.
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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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