Low-power dual Schmitt trigger inverter Rev. 3 — 22 February 2022

**Product data sheet** 

### 1. General description

The 74AXP2G14 is a dual inverter with Schmitt-trigger inputs. It transforms slowly changing input signals into sharply defined, jitter-free output signals.

This device ensures very low static and dynamic power consumption across the entire  $V_{CC}$  range from 0.7 V to 2.75 V. It is fully specified for partial power down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

### 2. Features and benefits

- Wide supply voltage range from 0.7 V to 2.75 V
- Low input capacitance; C<sub>I</sub> = 0.5 pF (typical)
- Low output capacitance; C<sub>O</sub> = 1.0 pF (typical)
- Low dynamic power consumption; C<sub>PD</sub> = 2.4 pF at V<sub>CC</sub> = 1.2 V (typical)
- Low static power consumption; I<sub>CC</sub> = 1.0 μA (85 °C maximum)
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Inputs accept voltages up to 2.75 V
- Low noise overshoot and undershoot < 10 % of V<sub>CC</sub>
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
- Complies with JEDEC standard:
  - JESD8-12A.01 (1.1 V to 1.3 V)
  - 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)
- ESD protection:
  - HBM ANSI/ESDA/JEDEC JS-001 Class 2 exceeds 2000 V
  - CDM JESD22-C101E exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C



# 3. Ordering information

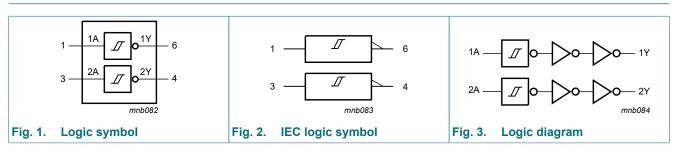
Type number	Package										
	Temperature range	Name	Description	Version							
74AXP2G14GM	-40 °C to +85 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886							
74AXP2G14GN	-40 °C to +85 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115							
74AXP2G14GS	-40 °C to +85 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202							
74AXP2G14GX	-40 °C to +85 °C	X2SON6	plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm	SOT1255-2							

### 4. Marking

Table 2. Marking							
Type number	Marking code[1]						
74AXP2G14GM	rК						
74AXP2G14GN	rК						
74AXP2G14GS	rК						
74AXP2G14GX	rК						

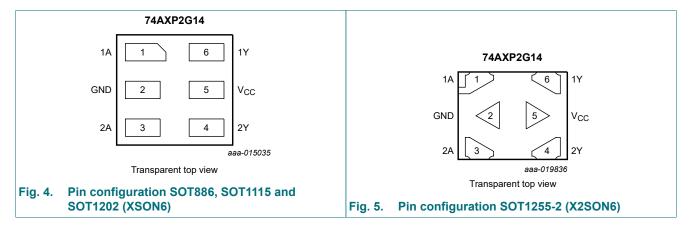
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

### 5. Functional diagram



# 6. Pinning information

### 6.1. Pinning



### 6.2. Pin description

#### Table 3. Pin description

Symbol	Pin	Description
1A	1	data input
GND	2	ground (0 V)
2A	3	data input
2Y	4	data output
V <sub>CC</sub>	5	supply voltage
1Y	6	data output

### 7. Functional description

#### Table 4. Function table

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

Input	Output
nA	nY
L	Н
Н	L

### 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>CC</sub>	supply voltage		-0.5	+3.3	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	[1]	-0.5	+3.3	V
I <sub>O</sub>	output current	$V_{O} = 0 V$ to $V_{CC}$	-	±20	mA
I <sub>CC</sub>	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	$T_{amb} = -40 \text{ °C to } +85 \text{ °C}$ [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 SOT886 (XSON6) package: P<sub>tot</sub> derates linearly with 3.3 mW/K above 74 °C. For SOT1115 (XSON6) package: P<sub>tot</sub> derates linearly with 3.2 mW/K above 71 °C. For SOT1202 (XSON6) package: P<sub>tot</sub> derates linearly with 3.3 mW/K above 74 °C.

For SOT1255-2 (X2SON6) package:  $\rm P_{tot}$  derates linearly with 3.3 mW/K above 75 °C.

### 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>CC</sub>	supply voltage		0.7	2.75	V
VI	input voltage		0	2.75	V
Vo	output voltage	Active mode	0	V <sub>CC</sub>	V
		Power-down mode; V <sub>CC</sub> = 0 V	0	2.75	V
T <sub>amb</sub>	ambient temperature		-40	+85	°C

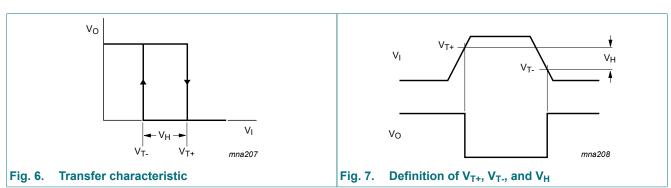
# **10. Static characteristics**

#### Table 7. Static characteristics

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

Symbol	Parameter	Conditions	Т	amb = 25 °	°C	T <sub>amb</sub> = -40 °	C to +85 °C	Unit
			Min	Тур	Мах	Min	Max	
V <sub>T+</sub>	positive-going	see <u>Fig. 6</u> and <u>Fig. 7</u>						
	threshold voltage	V <sub>CC</sub> = 0.75 V to 0.85 V	0.3V <sub>CC</sub>	-	0.8V <sub>CC</sub>	0.3V <sub>CC</sub>	0.8V <sub>CC</sub>	V
		V <sub>CC</sub> = 1.1 V to 1.95 V	0.4V <sub>CC</sub>	-	0.7V <sub>CC</sub>	0.4V <sub>CC</sub>	0.7V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.9	-	1.7	0.9	1.7	V
V <sub>T-</sub>	negative-going	see <u>Fig. 6</u> and <u>Fig. 7</u>						
	threshold voltage	V <sub>CC</sub> = 0.75 V to 0.85 V	0.2V <sub>CC</sub>	-	0.7V <sub>CC</sub>	0.2V <sub>CC</sub>	0.7V <sub>CC</sub>	V
		V <sub>CC</sub> = 1.1 V to 1.95 V	0.3V <sub>CC</sub>	-	0.6V <sub>CC</sub>	0.3V <sub>CC</sub>	0.6V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.7	-	1.5	0.7	1.5	V
V <sub>H</sub>	hysteresis	see <u>Fig. 6</u> and <u>Fig. 7</u>						
	voltage	V <sub>CC</sub> = 0.75 V to 0.85 V	0.06V <sub>CC</sub>	-	0.5V <sub>CC</sub>	0.06V <sub>CC</sub>	0.5V <sub>CC</sub>	V
		V <sub>CC</sub> = 1.1 V to 1.95 V	0.1V <sub>CC</sub>	-	0.4V <sub>CC</sub>	0.1V <sub>CC</sub>	0.4V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.2	-	1.0	0.2	1.0	V
V <sub>OH</sub>	HIGH-level	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 0.7 V	-	0.69	-	-	-	V
	output voltage	I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 0.75 V	0.65	-	-	0.65	-	V
		I <sub>O</sub> = -2 mA; V <sub>CC</sub> = 1.1 V	0.825	-	-	0.825	-	V
		I <sub>O</sub> = -3 mA; V <sub>CC</sub> = 1.4 V	1.05	-	-	1.05	-	V
		I <sub>O</sub> = -4.5 mA; V <sub>CC</sub> = 1.65 V	1.2	-	-	1.2	-	V
		I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V	1.7	-	-	1.7	-	V
V <sub>OL</sub>		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 0.7 V	-	0.01	-	-	-	V
	voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 0.75 V	-	-	0.1	-	0.1	V
		I <sub>O</sub> = 2 mA; V <sub>CC</sub> = 1.1 V	-	-	0.275	-	0.275	V
		I <sub>O</sub> = 3 mA; V <sub>CC</sub> = 1.4 V	-	-	0.35	-	0.35	V
		I <sub>O</sub> = 4.5 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.45	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.7	-	0.7	V
I	input leakage current	$V_{I} = 0 V \text{ to } 2.75 V;$ [1 $V_{CC} = 0 V \text{ to } 2.75 V$	] -	0.001	±0.1	-	±0.5	μA
I <sub>OFF</sub>	power-off leakage current	$V_{I} \text{ or } V_{O} = 0 \text{ V to } 2.75 \text{ V};$ [1 $V_{CC} = 0 \text{ V}$	1 -	0.01	±0.1	-	±0.5	μA
ΔI <sub>OFF</sub>	additional power- off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V or } 2.75 \text{ V};$ [1 $V_{CC} = 0 \text{ V to } 0.1 \text{ V}$	] -	0.02	±0.1	-	±0.5	μA
I <sub>CC</sub>	supply current	$V_{I} = 0 V \text{ or } V_{CC}; I_{O} = 0 A$ [1	] -	0.01	0.3	-	1.0	μA
ΔI <sub>CC</sub>	additional supply current	$V_{I} = V_{CC} - 0.5 V; I_{O} = 0 A;$ $V_{CC} = 2.5 V$	-	2	100	-	150	μA

[1] Typical values are measured at  $V_{CC}$  = 1.2 V.



### 10.1. Waveform transfer characteristics

### 11. Dynamic characteristics

#### **Table 8. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit, see Fig. 14.

Symbol	Parameter	Conditions	т	amb = 25 °	°C	T <sub>amb</sub> = -40	°C to +85 °C	Unit
			Min	Typ[1]	Max	Min	Max	1
t <sub>pd</sub>	propagation	nA to nY; see Fig. 8 [2][3]						
	delay	V <sub>CC</sub> = 0.75 V to 0.85 V	3	12	38	2	126	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	2.0	4.6	7.4	1.8	7.7	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	1.6	3.5	5.0	1.4	5.4	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.4	2.9	4.2	1.2	4.6	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.2	2.3	3.2	1.0	3.5	ns
t <sub>t</sub>	transition time	V <sub>CC</sub> = 2.7 V; see <u>Fig. 8</u> [4]	-	-	-	1.0	-	ns
CI	input capacitance	$V_{I} = 0 V \text{ or } V_{CC};$ $V_{CC} = 0 V \text{ to } 2.75 V$	-	0.5	-	-	-	pF
Co	output capacitance	V <sub>O</sub> = 0 V; V <sub>CC</sub> = 0 V	-	1.0	-	-	-	pF
C <sub>PD</sub>		$f_i = 1 \text{ MHz}; V_I = 0 \text{ V to } V_{CC}$ [5]						
	capacitance	V <sub>CC</sub> = 0.75 V to 0.85 V	-	2.3	-	-	-	pF
		V <sub>CC</sub> = 1.1 V to 1.3 V	-	2.4	-	-	-	pF
		V <sub>CC</sub> = 1.4 V to 1.6 V	-	2.5	-	-	-	pF
		V <sub>CC</sub> = 1.65 V to 1.95 V	-	2.6	-	-	-	pF
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	2.9	-	-	-	pF

[1]

All typical values are measured at nominal  $V_{CC}$ . For additional propagation delay values at different load capacitances, see <u>Fig. 9</u> to <u>Fig. 13</u>. [2]

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

 $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ . [4] [5]

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

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

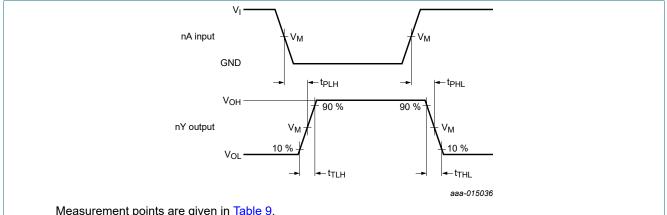
 $f_i$  = input frequency in MHz;

 $f_0$  = output frequency in MHz;

 $C_L$  = output load capacitance in pF;

 $V_{CC}$  = supply voltage in V;

N = number of inputs switching.



### 11.1. Waveforms, graphs and test circuit

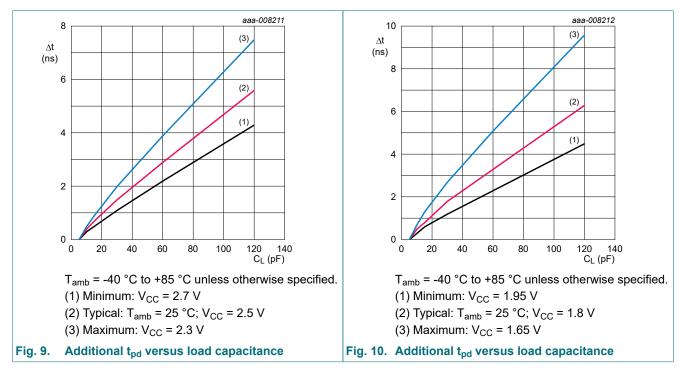
Measurement points are given in Table 9.

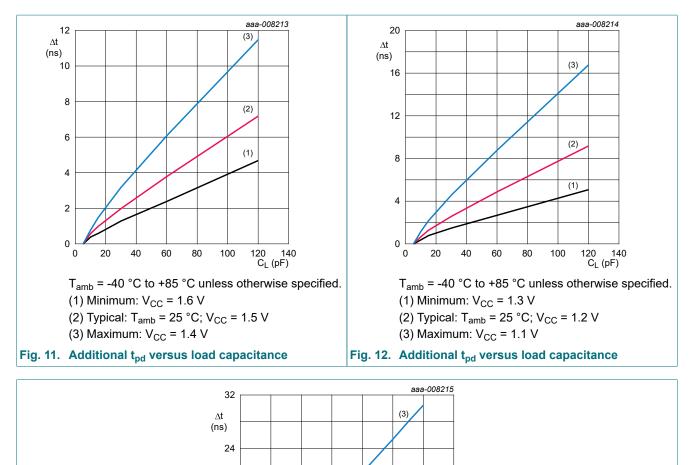
 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical output voltage levels that occur with the output load.

#### Fig. 8. The data input (nA) to output (nY) propagation delays

Table 9. Measurement points

Supply voltage	Input			Output
V <sub>cc</sub>	V <sub>M</sub>	VI	t <sub>r</sub> = t <sub>f</sub>	V <sub>M</sub>
0.75 V to 2.7 V	0.5V <sub>CC</sub>	V <sub>CC</sub>	≤ 3.0 ns	0.5V <sub>CC</sub>





(2)

(1)

25

30 35 C<sub>L</sub> (pF)

 $T_{amb}$  = -40 °C to +85 °C unless otherwise specified.

16

8

0

0

5

10

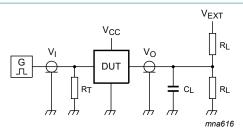
15

20

- (1) Minimum:  $V_{CC} = 0.85 V$
- (2) Typical:  $T_{amb}$  = 25 °C;  $V_{CC}$  = 0.8 V
- (3) Maximum:  $V_{CC}$  = 0.75 V

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Fig. 13. Additional t<sub>pd</sub> versus load capacitance
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Test data is given in <u>Table 10</u>.

Definitions for test circuit:

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

 $C_L$  = Load capacitance including jig and probe capacitance;

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

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

#### Fig. 14. Test circuit for measuring switching times

#### Table 10. Test data

Supply voltage	Load		V <sub>EXT</sub>					
V <sub>cc</sub>	CL	RL	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>			
0.75 V to 2.7 V	5 pF	10 kΩ	0 V	0 V	2V <sub>CC</sub>			

# 12. Package outline

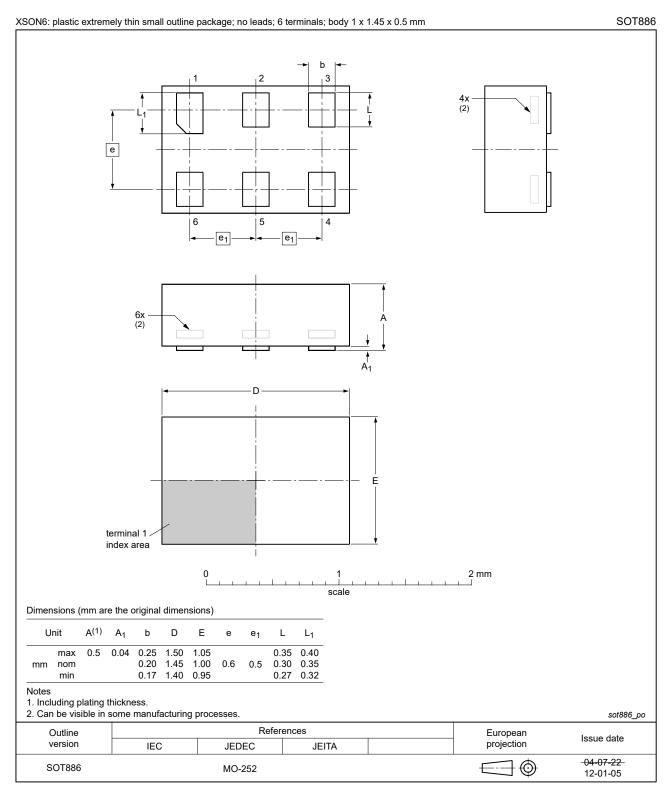


Fig. 15. Package outline SOT886 (XSON6)

#### Low-power dual Schmitt trigger inverter

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

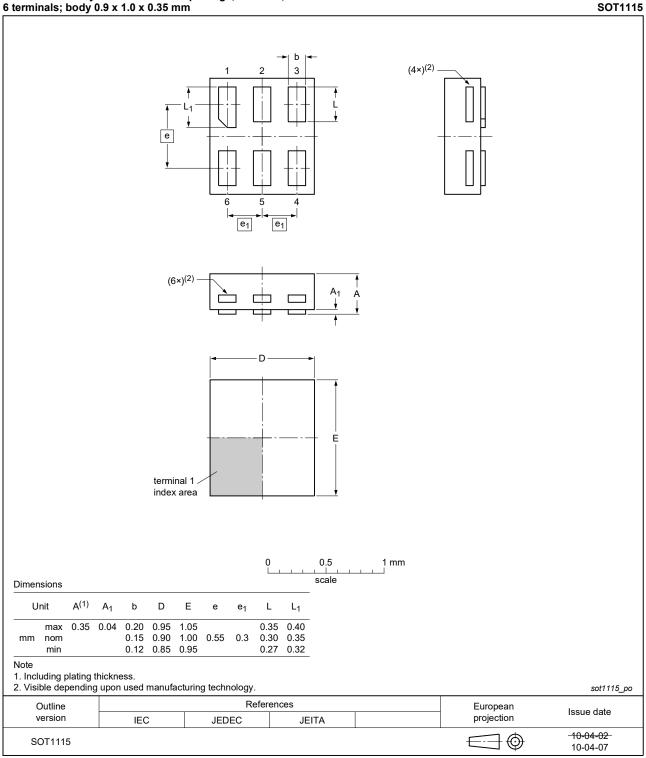


Fig. 16. Package outline SOT1115 (XSON6)

#### Low-power dual Schmitt trigger inverter

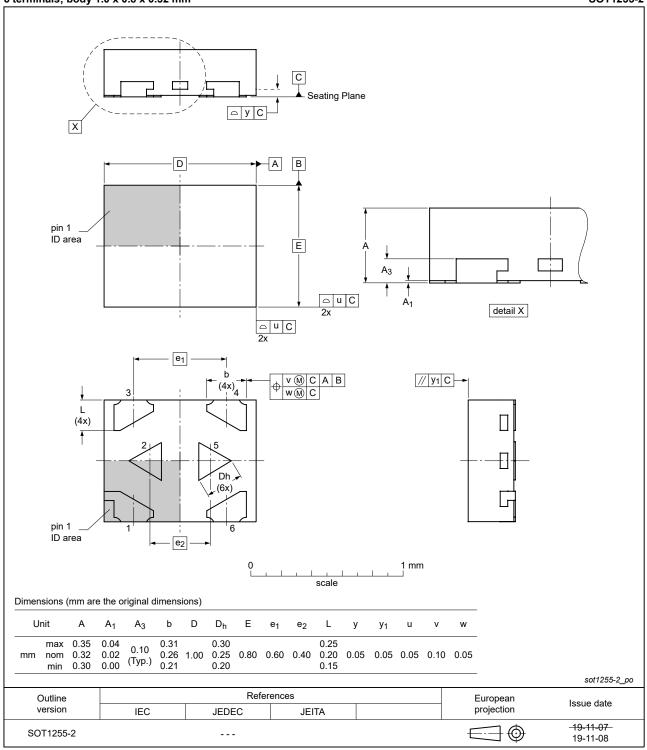
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)imensions								0	<u> </u>	0.5 scale	1 mm					
Unit	A <sup>(1)</sup>	A <sub>1</sub>	b	D	Е	е	e <sub>1</sub>	L	L <sub>1</sub>							
mm nom min	0.35	0.04	0.15	1.05 1.00 0.95	1.00	0.55	0.35	0.30	0.40 0.35 0.32							
Note . Including p 2. Visible dep	lating ending	thickne	ess. Lused I	manuf	acturin	a techr	noloav									sot1202_p
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#### Low-power dual Schmitt trigger inverter

# X2SON6: plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 x 0.8 x 0.32 mm

SOT1255-2





# 13. Abbreviations

Table 11. Abbreviations           Acronym         Description							
Acronym	Description						
CDM	Charged Device Model						
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	
74AXP2G14 v.3	20220222	Product data sheet	-	74AXP2G14 v.2	
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>SOT1255 (X2SON6) package changed to SOT1255-2 (X2SON6) package.</li> <li><u>Table 5</u>: Derating values for P<sub>tot</sub> total power dissipation updated.</li> </ul>				
74AXP2G14 v.2	20150917	Product data sheet	-	74AXP2G14 v.1	
Modifications:	Added type number 74AXP2G14GX (SOT1255/X2SON6).				
74AXP2G14 v.1	20141009	Product data sheet	-	-	

# 15. 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.

 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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