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

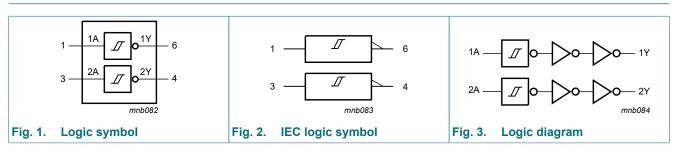
Type number	Package										
	Temperature range	Name	Description	Version							
74AXP2G14GM	-40 °C to +85 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886							
74AXP2G14GN	-40 °C to +85 °C	XSON6	extremely thin small outline package; no leads; 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						

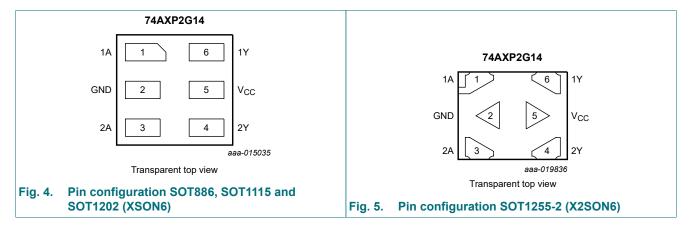
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

### 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

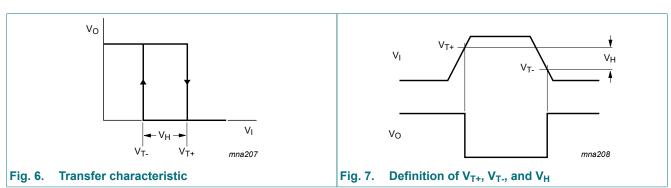
# **10. Static characteristics**

#### **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:

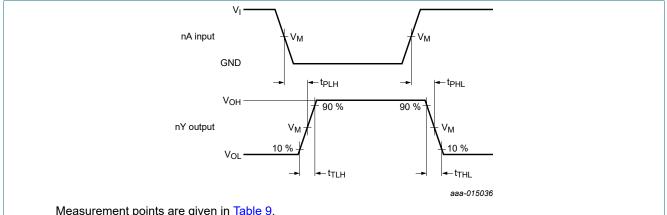
 $f_i$  = input frequency in MHz;

 $f_0$  = 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

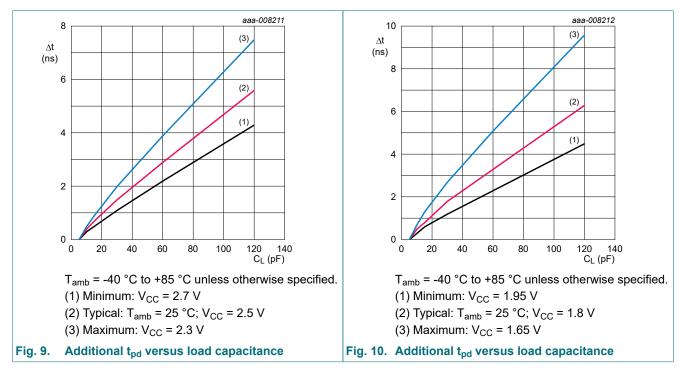
Measurement points are given in Table 9.

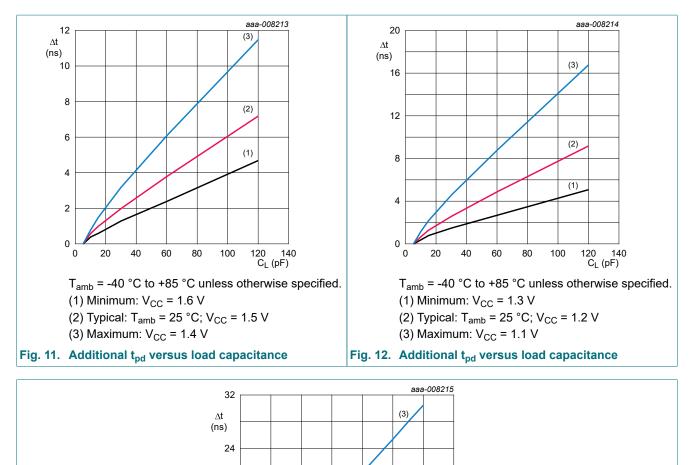
 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical output voltage levels that occur with the output load.

#### 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

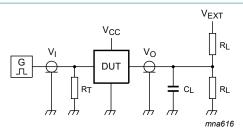
15

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

```
Fig. 13. Additional t<sub>pd</sub> versus load capacitance
```

#### Low-power dual Schmitt trigger inverter



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

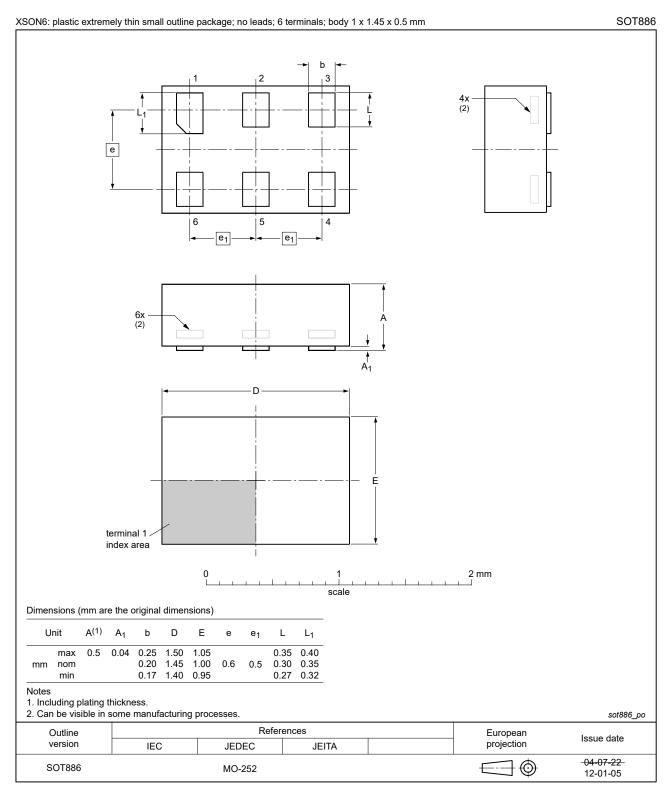


Fig. 15. Package outline SOT886 (XSON6)

#### 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

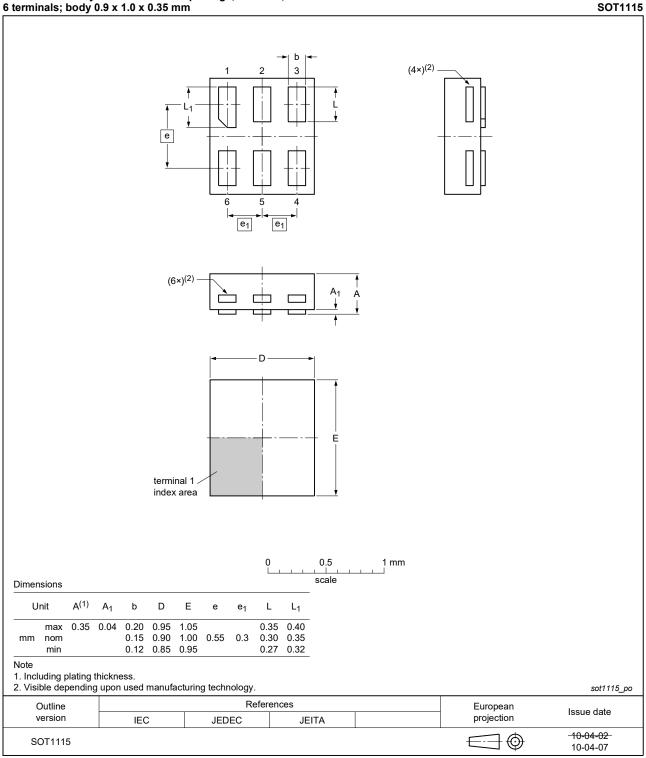


Fig. 16. Package outline SOT1115 (XSON6)

#### Low-power dual Schmitt trigger inverter

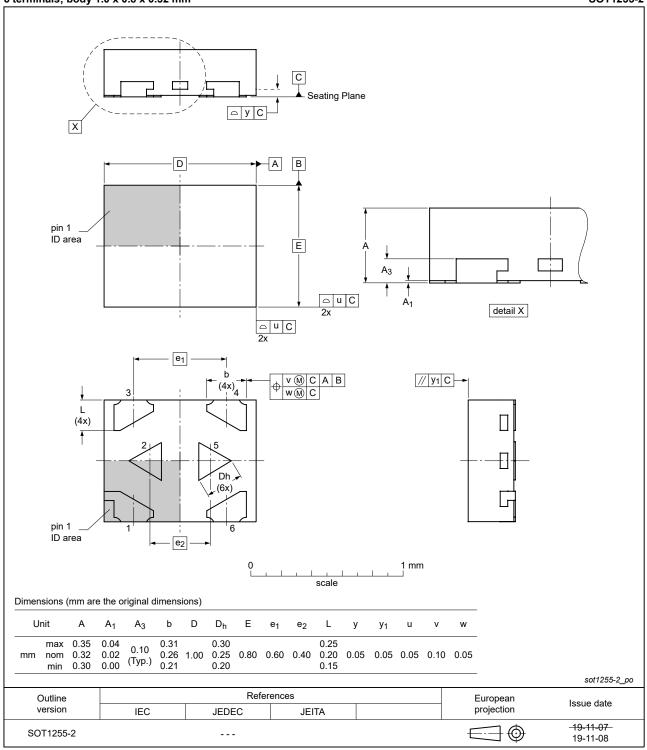
erminals; b		-	-													SOT12
				e v	↑ L1		-e <sub>1</sub> -			<- - L - ↓		(4×) <sup>(2)</sup>		]		
				(6×	)(2) —		] [			A <sub>1</sub>						
				termina index a				- D								
)imensions								0	<u> </u>	0.5 scale	1 mm					
Unit	A <sup>(1)</sup>	A <sub>1</sub>	b	D	Е	е	e <sub>1</sub>	L	L <sub>1</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
Outline	Shan			anulo	sam	3 10011		eferend	ces				Fur	opean		
version			IEC	;		JED				ITA			proj	ection	ls	ssue date
																10-04-02



#### 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".
- [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 <u>https://www.nexperia.com</u>.

#### **Definitions**

**Draft** — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. Nexperia does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

Short data sheet — A short data sheet is an extract from a full data sheet with the same product type number(s) and title. A short data sheet is intended for quick reference only and should not be relied upon to contain detailed and full information. For detailed and full information see the relevant full data sheet, which is available on request via the local Nexperia sales office. In case of any inconsistency or conflict with the short data sheet, the full data sheet shall prevail.

**Product specification** — The information and data provided in a Product data sheet shall define the specification of the product as agreed between Nexperia and its customer, unless Nexperia and customer have explicitly agreed otherwise in writing. In no event however, shall an agreement be valid in which the Nexperia product is deemed to offer functions and qualities beyond those described in the Product data sheet.

#### **Disclaimers**

Limited warranty and liability — Information in this document is believed to be accurate and reliable. However, Nexperia does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. Nexperia takes no responsibility for the content in this document if provided by an information source outside of Nexperia.

In no event shall Nexperia be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, Nexperia's aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms and conditions of commercial sale of Nexperia.

**Right to make changes** — Nexperia reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

**Suitability for use** — Nexperia products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of an Nexperia product can reasonably be expected to result in personal

#### Low-power dual Schmitt trigger inverter

injury, death or severe property or environmental damage. Nexperia and its suppliers accept no liability for inclusion and/or use of Nexperia products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

**Quick reference data** — The Quick reference data is an extract of the product data given in the Limiting values and Characteristics sections of this document, and as such is not complete, exhaustive or legally binding.

**Applications** — Applications that are described herein for any of these products are for illustrative purposes only. Nexperia makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using Nexperia products, and Nexperia accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the Nexperia product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

Nexperia does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using Nexperia products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). Nexperia does not accept any liability in this respect.

Limiting values — Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

Terms and conditions of commercial sale — Nexperia products are sold subject to the general terms and conditions of commercial sale, as published at <u>http://www.nexperia.com/profile/terms</u>, unless otherwise agreed in a valid written individual agreement. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. Nexperia hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of Nexperia products by customer.

No offer to sell or license — Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

**Export control** — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

Non-automotive qualified products — Unless this data sheet expressly states that this specific Nexperia product is automotive qualified, the product is not suitable for automotive use. It is neither qualified nor tested in accordance with automotive testing or application requirements. Nexperia accepts no liability for inclusion and/or use of non-automotive qualified products in automotive equipment or applications.

In the event that customer uses the product for design-in and use in automotive applications to automotive specifications and standards, customer (a) shall use the product without Nexperia's warranty of the product for such automotive applications, use and specifications, and (b) whenever customer uses the product for automotive applications beyond Nexperia's specifications such use shall be solely at customer's own risk, and (c) customer fully indemnifies Nexperia for any liability, damages or failed product claims resulting from customer design and use of the product for automotive applications beyond Nexperia's standard warranty and Nexperia's product specifications.

**Translations** — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

#### **Trademarks**

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

## Contents

1. General description	1
2. Features and benefits	1
3. Ordering information	2
4. Marking	2
5. Functional diagram	2
6. Pinning information	3
6.1. Pinning	3
6.2. Pin description	3
7. Functional description	3
8. Limiting values	4
9. Recommended operating conditions	4
10. Static characteristics	5
10.1. Waveform transfer characteristics	6
11. Dynamic characteristics	6
11.1. Waveforms, graphs and test circuit	7
12. Package outline	10
13. Abbreviations	14
14. Revision history	14
15. Legal information	
-	

© Nexperia B.V. 2022. All rights reserved

For more information, please visit: http://www.nexperia.com For sales office addresses, please send an email to: salesaddresses@nexperia.com Date of release: 22 February 2022

74AXP2G14

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nexperia:

74AXP2G14GMH 74AXP2G14GSH 74AXP2G14GNH 74AXP2G14GXZ