Low-power dual Schmitt trigger inverter Rev. 2 — 17 September 2015

Product data sheet

General description 1.

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.

Features and benefits 2.

- Wide supply voltage range from 0.7 V to 2.75 V
- Low input capacitance; C_I = 0.5 pF (typical)
- Low output capacitance; C_O = 1.0 pF (typical)
- Low dynamic power consumption; $C_{PD} = 2.4 \text{ pF}$ at $V_{CC} = 1.2 \text{ V}$ (typical)
- Low static power consumption; I_{CC} = 1.0 μA (85 °C maximum)
- High noise immunity
- 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 2 kV
 - CDM JESD22-C101E exceeds 1000 V
- 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_{CC}
- I_{OFF} circuitry provides partial Power-down mode operation
- Multiple package options
- Specified from -40 °C to +85 °C



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3. Ordering information

Table 1. 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 \times 1.45 \times 0.5 mm	SOT886			
74AXP2G14GN	–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			
74AXP2G14GS	–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			
74AXP2G14GX	–40 °C to +85 °C	X2SON6	plastic thermal extremely thin small outline package; no leads; 6 terminals; body 1 \times 0.8 \times 0.35 mm	SOT1255			

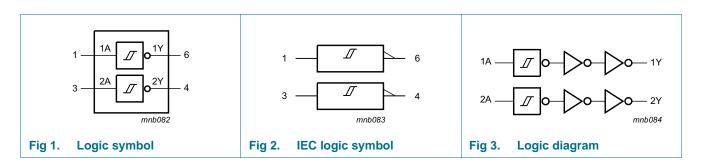
4. Marking

Table 2. Marking

Type number	Marking code[1]
74AXP2G14GM	rK
74AXP2G14GN	rK
74AXP2G14GS	rK
74AXP2G14GX	rK

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

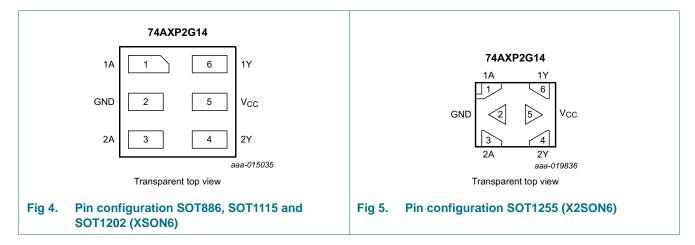
5. Functional diagram



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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 _{CC}	5	supply voltage
1Y	6	data output

7. Functional description

Table 4. Function table[1]

Input	Output
nA	nY
L	Н
Н	L

[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 _{CC}	supply voltage		-0.5	+3.3	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+3.3	V
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
Vo	output voltage	[1]	-0.5	+3.3	V
Io	output current	$V_O = 0 \text{ V to } V_{CC}$	-	±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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +85 ^{\circ}\text{C}$	-	250	mW

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

9. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		0.7	2.75	V
VI	input voltage		0	2.75	V
Vo	output voltage	Active mode	0	V _{CC}	V
		Power-down mode; V _{CC} = 0 V	0	2.75	V
T _{amb}	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		$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +85 ^{\circ}\text{C}$				
			Min	Typ 25 °C	Max 25 °C	Max 85 °C		
V_{T+}	positive-going	see Figure 6 and Figure 7						
threshold voltage		V _{CC} = 0.75 V to 0.85 V	0.3V _{CC}	-	0.8V _{CC}	0.8V _{CC}	V	
		V _{CC} = 1.1 V to 1.95 V	0.4V _{CC}	-	0.7V _{CC}	0.7V _{CC}	V	
		V _{CC} = 2.3 V to 2.7 V	0.9	-	1.7	1.7	V	
V_{T-}	negative-going	see Figure 6 and Figure 7						
threshold voltage	V _{CC} = 0.75 V to 0.85 V	0.2V _{CC}	-	0.7V _{CC}	0.7V _{CC}	V		
		V _{CC} = 1.1 V to 1.95 V	0.3V _{CC}	-	0.6V _{CC}	0.6V _{CC}	V	
		V _{CC} = 2.3 V to 2.7 V	0.7	-	1.5	1.5	V	

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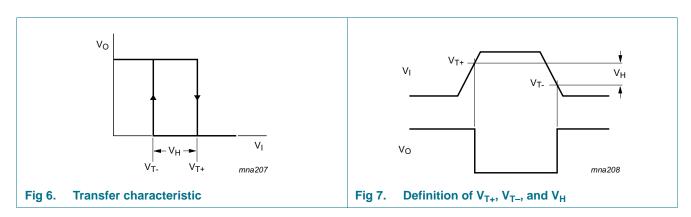
Table 7. Static characteristics ...continued

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

Symbol	Parameter	Conditions		$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +85 ^{\circ}\text{C}$				Unit
				Min	Typ 25 °C	Max 25 °C	Max 85 °C	
V _H	hysteresis	see Figure 6 and Figure 7						
	voltage	V _{CC} = 0.75 V to 0.85 V		0.06V _{CC}	-	0.5V _{CC}	0.5V _{CC}	V
		V _{CC} = 1.1 V to 1.95 V		0.1V _{CC}	-	0.4V _{CC}	0.4V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V		0.2	-	1.0	1.0	V
V _{OH}	HIGH-level	$I_O = -20 \mu A$; $V_{CC} = 0.7 V$		-	0.69	-	-	V
	output voltage	$I_O = -100 \mu A; V_{CC} = 0.75 V$		0.65	-	-	-	V
		$I_O = -2 \text{ mA}; V_{CC} = 1.1 \text{ V}$		0.825	-	-	-	V
		$I_O = -3 \text{ mA}; V_{CC} = 1.4 \text{ V}$		1.05	-	-	-	V
		$I_O = -4.5 \text{ mA}; V_{CC} = 1.65 \text{ V}$		1.2	-	-	-	V
		$I_O = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$		1.7	-	-	-	V
V _{OL}	LOW-level	$I_O = 20 \mu A; V_{CC} = 0.7 V$		-	0.01	-	-	V
	output voltage	$I_O = 100 \mu A; V_{CC} = 0.75 V$		-	-	0.1	0.1	V
		I _O = 2 mA; V _{CC} = 1.1 V		-	-	0.275	0.275	V
		$I_O = 3 \text{ mA}; V_{CC} = 1.4 \text{ V}$		-	-	0.35	0.35	V
		$I_O = 4.5 \text{ mA}; V_{CC} = 1.65 \text{ V}$		-	-	0.45	0.45	V
		$I_O = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$		-	-	0.7	0.7	V
l _l	input leakage current	V _I = 0 V to 2.75 V; V _{CC} = 0 V to 2.75 V	[1]	-	0.001	±0.1	±0.5	μΑ
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 0$ V to 2.75 V; $V_{CC} = 0$ V	<u>[1]</u>	-	0.01	±0.1	±0.5	μΑ
Δl_{OFF}	additional power-off leakage current	V_1 or $V_0 = 0$ V or 2.75 V; [1] $V_{CC} = 0$ V to 0.1 V		-	0.02	±0.1	±0.5	μА
I _{CC}	supply current	$V_I = 0 \text{ V or } V_{CC}; I_O = 0 \text{ A}$	[1]	-	0.01	0.3	1.0	μΑ
Δl _{CC}	additional supply current	$V_I = V_{CC} - 0.5 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 2.5 \text{ V}$		-	2	100	150	μА

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

10.1 Waveform transfer characteristics



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11. Dynamic characteristics

Table 8. Dynamic characteristics

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

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

- [1] All typical values are measured at nominal V_{CC} .
- [2] t_{pd} is the same as t_{PLH} and t_{PHL} .
- [3] For additional propagation delay values at different load capacitances, see Figure 9 to Figure 13.
- [4] t_t is the same as t_{THL} and t_{TLH} .
- [5] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching.

12. Waveforms

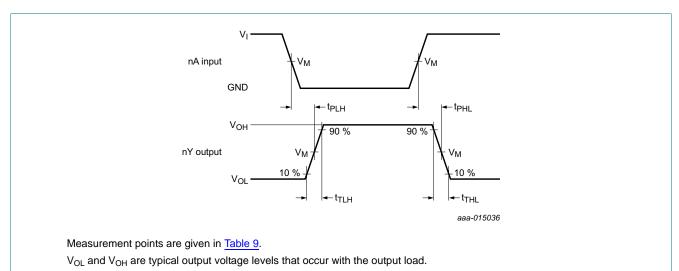
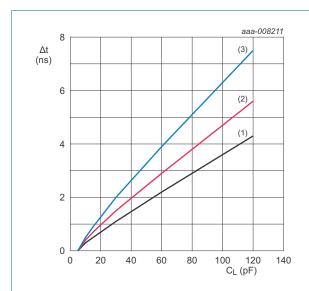


Fig 8. The data input (nA) to output (nY) propagation delays

Table 9. Measurement points

Supply voltage	Input	Output		
V _{CC}	V _M	VI	$t_r = t_f$	V _M
0.75 V to 2.7 V	0.5V _{CC}	V _{CC}	≤ 3.0 ns	0.5V _{CC}



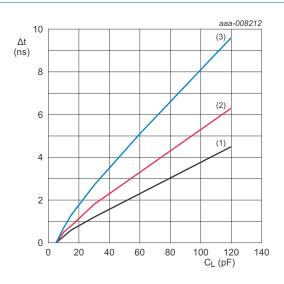
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

(1) Minimum: $V_{CC} = 2.7 \text{ V}$

(2) Typical: $T_{amb} = 25 \,^{\circ}C$; $V_{CC} = 2.5 \,^{\circ}V$

(3) Maximum: $V_{CC} = 2.3 \text{ V}$

Fig 9. Additional tpd versus load capacitance



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

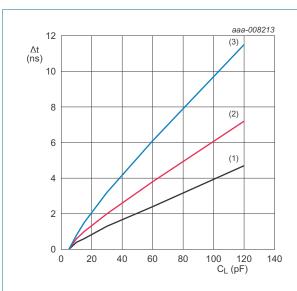
(1) Minimum: $V_{CC} = 1.95 \text{ V}$

(2) Typical: $T_{amb} = 25 \, ^{\circ}C$; $V_{CC} = 1.8 \, V$

(3) Maximum: $V_{CC} = 1.65 \text{ V}$

Fig 10. Additional t_{pd} versus load capacitance

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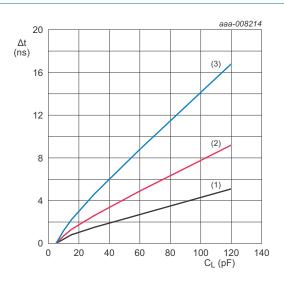
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

(1) Minimum: $V_{CC} = 1.6 \text{ V}$

(2) Typical: $T_{amb} = 25 \,^{\circ}C$; $V_{CC} = 1.5 \,^{\circ}V$

(3) Maximum: $V_{CC} = 1.4 \text{ V}$

Fig 11. Additional tpd versus load capacitance



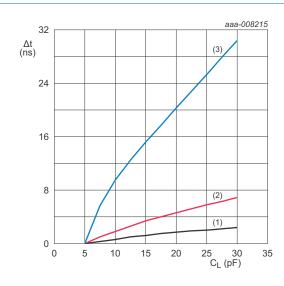
 $T_{amb} = -40 \, ^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$ unless otherwise specified.

(1) Minimum: $V_{CC} = 1.3 \text{ V}$

(2) Typical: $T_{amb} = 25 \, ^{\circ}C$; $V_{CC} = 1.2 \, V$

(3) Maximum: $V_{CC} = 1.1 \text{ V}$

Fig 12. Additional tpd versus load capacitance



 $T_{amb} = -40 \, ^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$ unless otherwise specified.

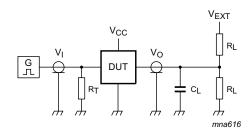
(1) Minimum: $V_{CC} = 0.85 \text{ V}$

(2) Typical: $T_{amb} = 25 \,^{\circ}C$; $V_{CC} = 0.8 \,^{\circ}V$

(3) Maximum: $V_{CC} = 0.75 \text{ V}$

Fig 13. Additional t_{pd} versus load capacitance

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Test data is given in <u>Table 10</u>.

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 Z_0 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 _{EXT}			
V _{CC}	C _L	R _L	t _{PLH} , t _{PHL} t _{PZH} , t _{PHZ} t _{PZL} , t _{PLZ}			
0.75 V to 2.7 V	5 pF	10 kΩ	0 V	0 V	$2 \times V_{CC}$	

13. Package outline

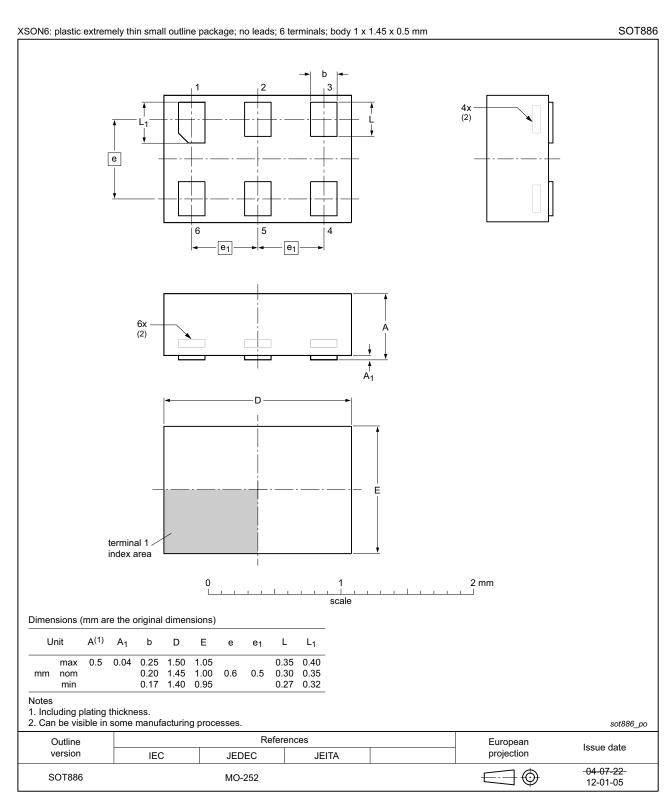


Fig 15. Package outline SOT886 (XSON6)

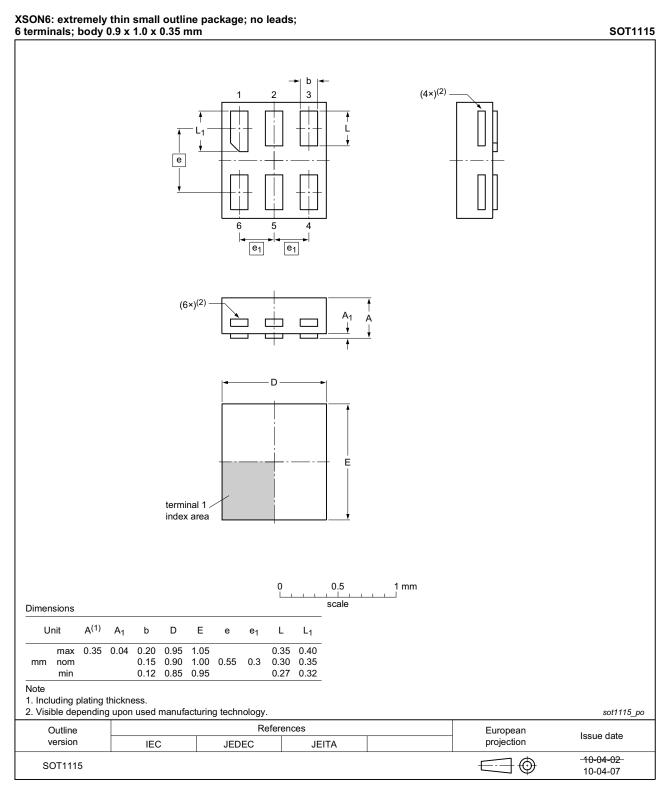


Fig 16. Package outline SOT1115 (XSON6)

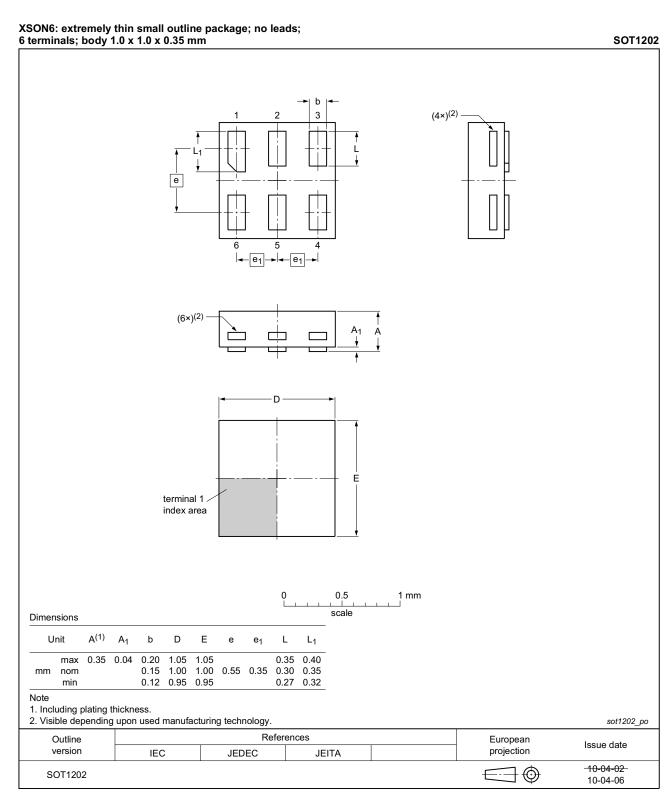


Fig 17. Package outline SOT1202 (XSON6)

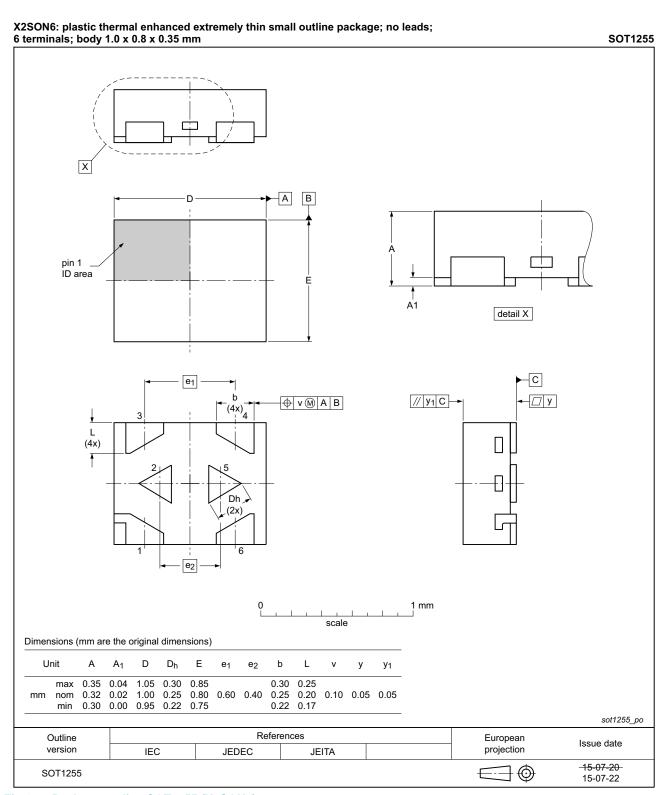


Fig 18. Package outline SOT1255 (X2SON6)

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14. Abbreviations

Table 11. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AXP2G14 v.2	20150917	Product data sheet	-	74AXP2G14 v.1
Modifications:	 Added type number 74AXP2G14GX (SOT1255/X2SON6). 			
74AXP2G14 v.1	20141009	Product data sheet	-	-

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16.1 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.

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OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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