74AXP1G57

Low-power configurable multiple function gate Rev. 2 — 12 December 2013 P

Product data sheet

General description 1.

The 74AXP1G57 is a configurable multiple function gate with Schmitt-trigger inputs. The device can be configured as any of the following logic functions AND, OR, NAND, NOR, XNOR, inverter and buffer. All inputs can be connected directly to V_{CC} or GND.

This device ensures very low static and dynamic power consumption across the entire V_{CC} range from 0.7 V to 2.75 V. This device 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} = 2.7 pF at V_{CC} = 1.2 V (typical)
- Low static power consumption; I_{CC} = 0.6 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			
74AXP1G57GM	–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			
74AXP1G57GN	–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			
74AXP1G57GS	–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			

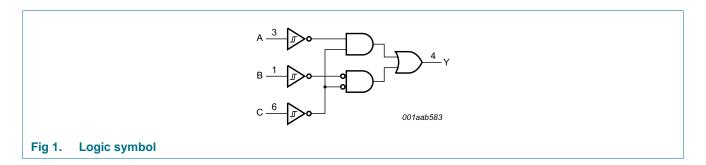
4. Marking

Table 2. Marking

Type number	Marking code ^[1]
74AXP1G57GM	RC
74AXP1G57GN	RC
74AXP1G57GS	RC

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

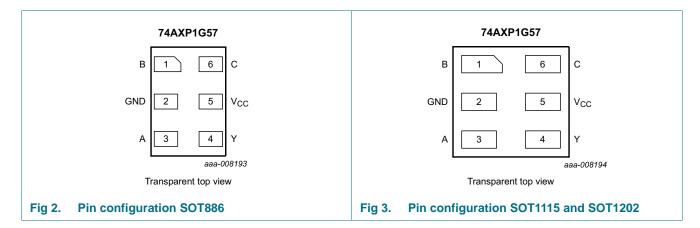
5. Functional diagram



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6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
В	1	data input
GND	2	ground (0 V)
A	3	data input
Υ	4	data output
V _{CC}	5	supply voltage
С	6	data input

7. Functional description

Table 4. Function table[1]

Input	Output		
С	В	Α	Υ
L	L	L	Н
L	L	Н	L
L	Н	L	Н
L	Н	Н	L
Н	L	L	L
Н	L	Н	L
Н	Н	L	Н
Н	Н	Н	Н

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

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7.1 Logic configurations

Table 5. Function selection table

Logic function	Figure
2-input AND	see Figure 4
2-input AND with both inputs inverted	see Figure 7
2-input NAND with inverted input	see Figure 5 and Figure 6
2-input OR with inverted input	see Figure 5 and Figure 6
2-input NOR	see Figure 7
2-input NOR with both inputs inverted	see Figure 4
2-input XNOR	see Figure 8
Inverter	see Figure 9
Buffer	see Figure 10

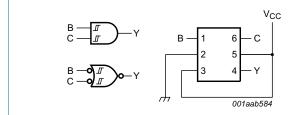


Fig 4. 2-input AND gate or 2-input NOR gate with both inputs inverted

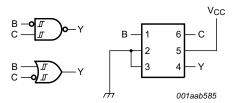


Fig 5. 2-input NAND gate with input B inverted or 2-input OR gate with inverted C input

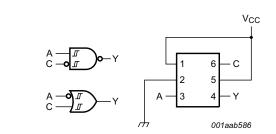


Fig 6. 2-input NAND gate with input C inverted or 2-input OR gate with inverted A input

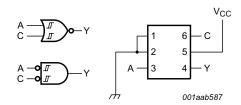
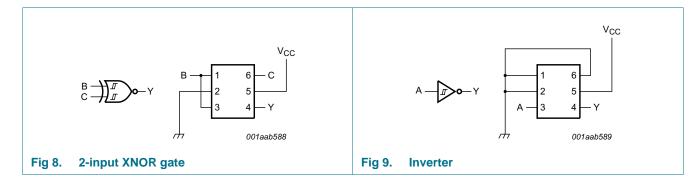
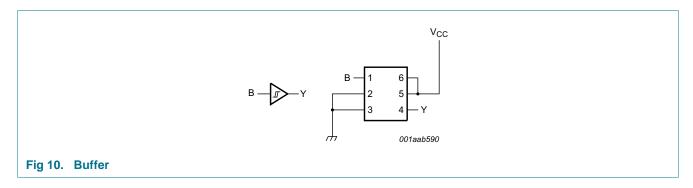


Fig 7. 2-input NOR gate or 2-input AND gate with both inputs inverted



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8. Limiting values

Table 6. 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
V_{I}	input voltage		[<u>1]</u> –0.5	3.3	V
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
V_{O}	output voltage		[<u>1]</u> –0.5	3.3	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±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 7. 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; $V_{CC} = 0 \text{ V}$	0	2.75	V
T _{amb}	ambient temperature		-40	+85	°C

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10. Static characteristics

Table 8. Static characteristics

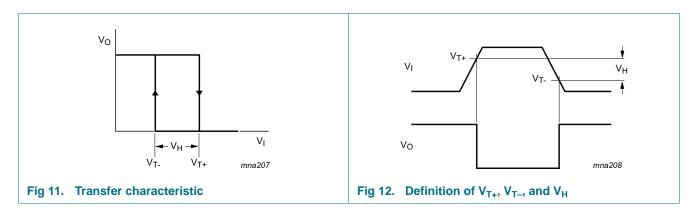
At recommended operating conditions, unless otherwise specified; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		$T_{amb} = -40$ °C to +85 °C				
			Min	Typ 25 °C	Max 25 °C	Max 85 °C		
V_{T+}	positive-going	see Figure 11 and Figure 12	'			'		
	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 11 and Figure 12						
	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	
V_{H}	hysteresis	see Figure 11 and Figure 12						
	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	
		$I_{O} = 2 \text{ mA}; V_{CC} = 1.1 \text{ V}$	-	-	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	
I _I	input leakage current	$V_1 = 0 \text{ V to } 2.75 \text{ V};$ $V_{CC} = 0 \text{ V to } 2.75 \text{ V}$	<u>l</u> -	0.001	±0.1	±0.5	μА	
I _{OFF}	power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 2.75 \text{ V};$ $V_{CC} = 0 \text{ V}$	l -	0.01	±0.1	±0.5	μΑ	
ΔI_{OFF}	additional power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V or } 2.75 \text{ V};$ $V_{CC} = 0 \text{ V to } 0.1 \text{ V}$	1 -	0.02	±0.1	±0.5	μΑ	
I _{CC}	supply current	$V_1 = 0 \text{ V or } V_{CC}; I_0 = 0 \text{ A}$	<u> </u>	0.01	0.3	0.6	μΑ	
ΔI_{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	μΑ	

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

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10.1 Waveform transfer characteristics



11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit, see Figure 19.

Symbol	Parameter	Conditions		T _{amb} = 25 °C			T _{amb} = -40 °	C to +85 °C	Unit
				Min	Typ[1]	Max	Min	Max	
t_{pd}	propagation	A, B and C to Y; see Figure 13	[2][3]					•	
	delay	$V_{CC} = 0.75 \text{ V to } 0.85 \text{ V}$		3.5	13	50	2.9	125	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$		1.8	5.0	8.4	1.6	8.4	ns
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$		1.6	3.8	5.4	1.4	5.8	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.3	3.2	4.4	1.2	4.8	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.9	2.6	3.4	0.8	3.7	ns
t _t	transition time	V _{CC} = 2.7 V; see <u>Figure 13</u>	<u>[4]</u>	-	-	-	1.0	-	ns
C _I	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

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 Table 9.
 Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for test circuit, see Figure 19.

Symbol	Parameter	Conditions		T _{amb} = 25 °C			$T_{amb} = -40$ °C to +85 °C		Unit
				Min	Typ[1]	Max	Min	Max	
C _{PD} power dissipation capacitance	$f_i = 1 \text{ MHz}; V_I = 0 \text{ V to } V_{CC}$	[5]							
	capacitance	$V_{CC} = 0.75 \text{ V to } 0.85 \text{ V}$		-	2.6	-	-	-	pF
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$		-	2.7	-	-	-	pF
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$		-	2.8	-	-	-	pF
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		-	2.9	-	-	-	pF
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	3.3	-	-	-	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 14 to Figure 18.
- [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).

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

11.1 Waveforms and graphs

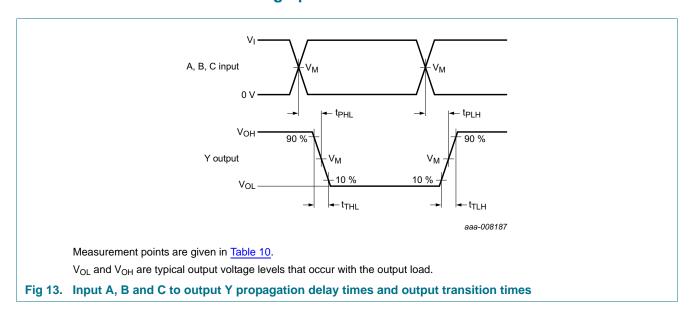
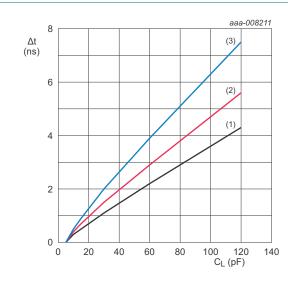


Table 10. Measurement points

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

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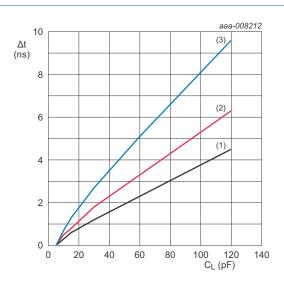
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

(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 14. Additional tpd versus load capacitance



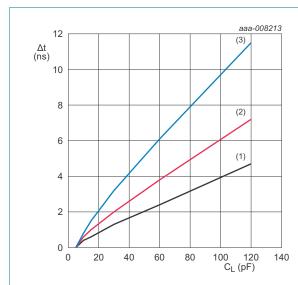
 $T_{amb} = -40$ °C to +85 °C unless otherwise specified.

(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 15. Additional tpd versus load capacitance



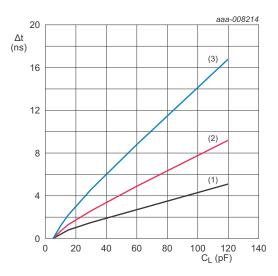
 $T_{amb} = -40 \, ^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$ unless otherwise specified.

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

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

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

Fig 16. Additional tpd versus load capacitance



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

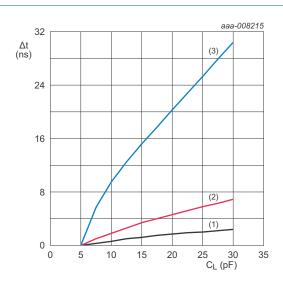
(1) Minimum: $V_{CC} = 1.3 \text{ V}$

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

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

Fig 17. Additional tpd versus load capacitance

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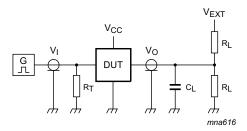
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

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

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

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

Fig 18. Additional tpd versus load capacitance



Test data is given in Table 11.

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 19. Test circuit for measuring switching times

Table 11. 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	$2\times V_{CC}$	

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12. Package outline

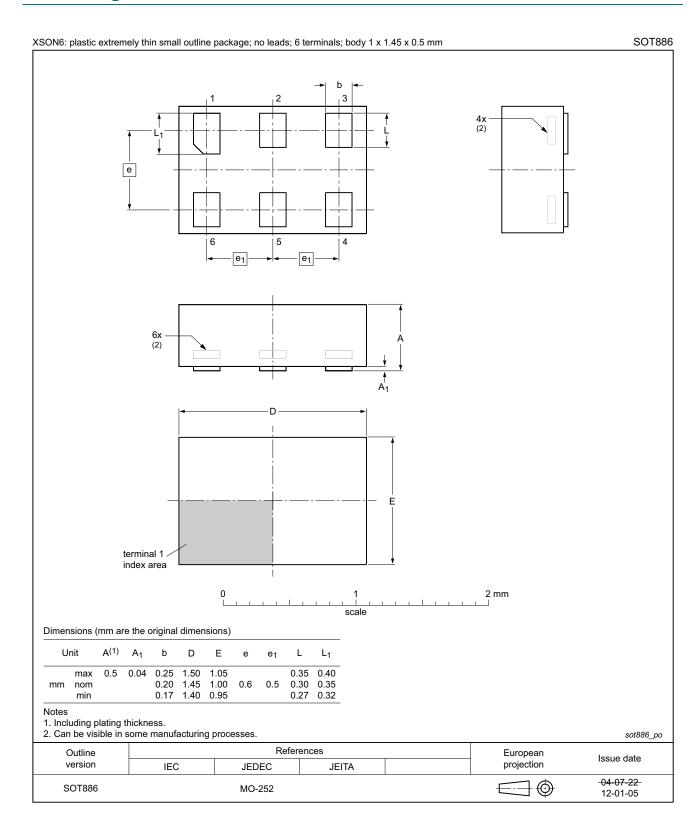


Fig 20. Package outline SOT886 (XSON6)

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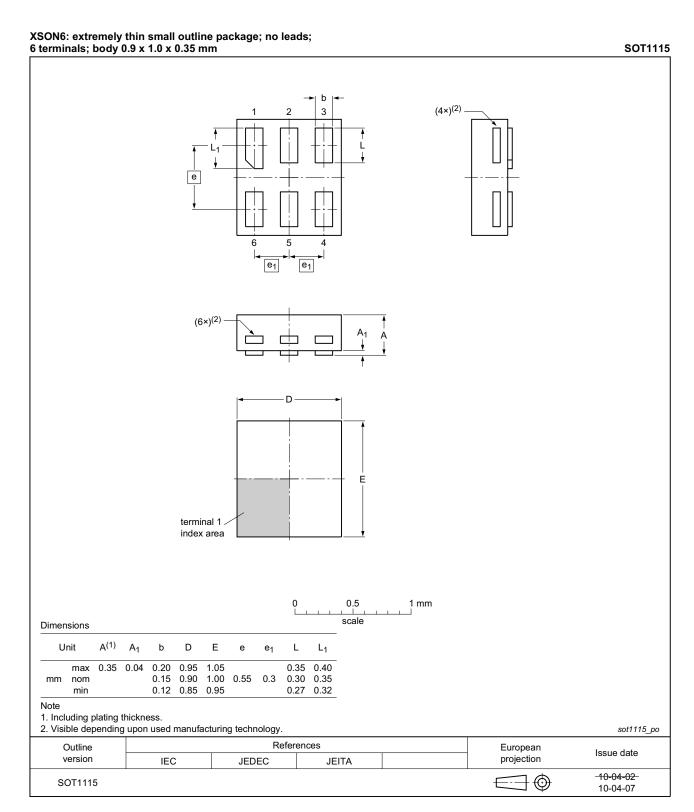


Fig 21. Package outline SOT1115 (XSON6)

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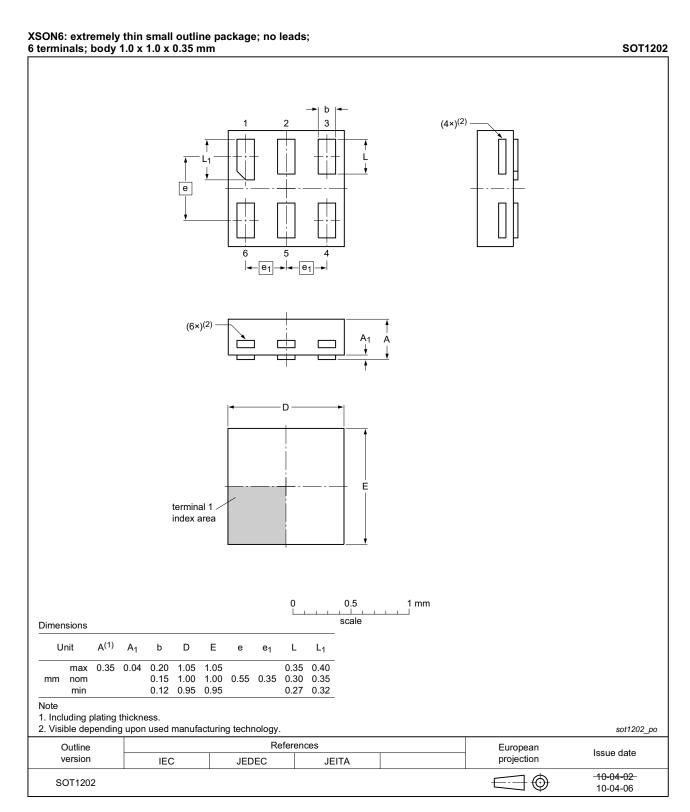


Fig 22. Package outline SOT1202 (XSON6)

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13. Abbreviations

Table 12. Abbreviations

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

14. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AXP1G57 v.2	20131212	Product data sheet	-	74AXP1G57 v.1
Modifications:	 Specification status changed to product data sheet. 			
74AXP1G57 v.1	20130625	Preliminary data sheet	-	-

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15. Legal information

15.1 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.

- [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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