74AXP1G58

Low-power configurable multiple function gateRev. 3 — 16 September 2015 P

Product data sheet

General description 1.

The 74AXP1G58 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, XOR, 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; $C_{PD} = 2.7 \text{ pF}$ at $V_{CC} = 1.2 \text{ V}$ (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				
74AXP1G58GM	–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				
74AXP1G58GN	–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				
74AXP1G58GS	–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				
74AXP1G58GX	–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				

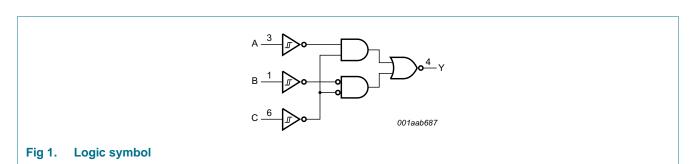
4. Marking

Table 2. Marking codes

Type number	Marking code ^[1]
74AXP1G58GM	RK
74AXP1G58GN	RK
74AXP1G58GS	RK
74AXP1G58GX	RK

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

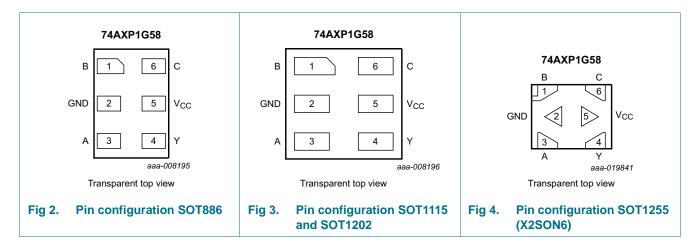
5. Functional diagram



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6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
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	Input		
С	В	A	Υ
L	L	L	L
L	L	Н	Н
L	Н	L	L
L	Н	Н	Н
Н	L	L	Н
Н	L	Н	Н
Н	Н	L	L
Н	Н	Н	L

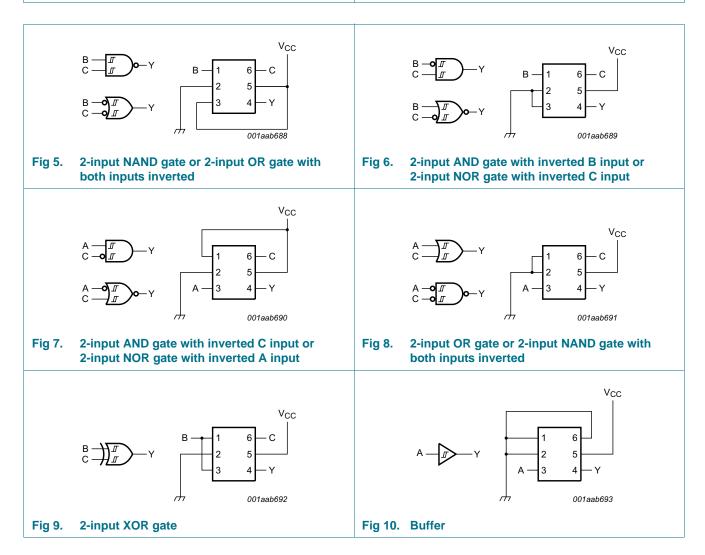
[1] H = HIGH voltage level; L = LOW voltage level.

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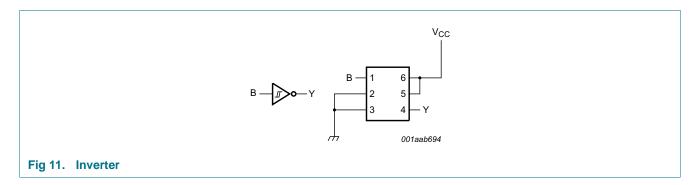
7.1 Logic configurations

Table 5. Function selection table

Logic function	Figure
2-input NAND	see Figure 5
2-input NAND with both inputs inverted	see Figure 8
2-input AND with inverted input	see Figure 6 and Figure 7
2-input NOR with inverted input	see Figure 6 and Figure 7
2-input OR	see Figure 8
2-input OR with both inputs inverted	see Figure 5
2-input XOR	see Figure 9
Buffer	see Figure 10
Inverter	see Figure 11



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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	[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	$V_O = 0 V \text{ to } V_{CC}$	-	±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; $V_{CC} = 0 V$	0	2.75	V
T _{amb}	ambient temperature		-40	+85	°C

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10. Static characteristics

Table 8. Static characteristics

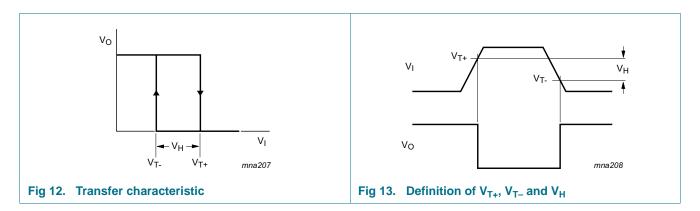
At recommended operating conditions, unless otherwise specified; voltages are referenced to GND (ground = 0 V).

V _{T+}				$T_{amb} = -40$ °C to +85 °C			
$V_{T_{+}}$			Min	Typ 25 °C	Max 25 °C	Max 85 °C	
	positive-going	see Figure 12 and Figure 13					
	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 12 and Figure 13					
	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 12 and Figure 13					
	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 output voltage	$I_O = -20 \mu A; V_{CC} = 0.7 V$	-	0.69	-	-	V
		$I_O = -100 \mu A; V_{CC} = 0.75 V$	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
l _l	input leakage current	$V_1 = 0 \text{ V to } 2.75 \text{ V};$ $V_{CC} = 0 \text{ V to } 2.75 \text{ V}$	-	0.001	±0.1	±0.5	μΑ
I _{OFF}	power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 2.75 \text{ V};$ $V_{CC} = 0 \text{ V}$	-	0.01	±0.1	±0.5	μΑ
Δl _{OFF}	additional power-off leakage current	$V_1 \text{ or } V_O = 0 \text{ V or } 2.75 \text{ V};$ $V_{CC} = 0 \text{ V to } 0.1 \text{ V}$	-	0.02	±0.1	±0.5	μА
Icc	supply current	$V_I = 0 \text{ V or } V_{CC}; I_O = 0 \text{ A}$	<u>-</u>	0.01	0.3	0.6	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	μΑ

^[1] 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 20.

Symbol	Parameter	Conditions	Ta	_{mb} = 25	°C	$T_{amb} = -40^{\circ}$	°C to +85 °C	Unit
			Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation delay	A, B and C to Y; see Figure 14 [2][3]						
		V _{CC} = 0.75 V to 0.85 V	3.0	14	46	1	152	ns
		V _{CC} = 1.1 V to 1.3 V	2.3	5.0	8.3	2.1	8.7	ns
		V _{CC} = 1.4 V to 1.6 V	1.9	3.7	5.6	1.7	6.0	ns
		V _{CC} = 1.65 V to 1.95 V	1.6	3.1	4.7	1.4	5.1	ns
		V _{CC} = 2.3 V to 2.7 V	1.3	2.4	3.5	1.1	3.9	ns
t _t	transition time	V _{CC} = 2.7 V; see <u>Figure 14</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	$f_i = 1 \text{ MHz}; V_i = 0 \text{ V to } V_{CC}$						
	capacitance	V _{CC} = 0.75 V to 0.85 V	-	2.5	-	-	-	pF
		V _{CC} = 1.1 V to 1.3 V	-	2.6	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V	-	2.7	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	2.9	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	3.3	-	-	-	рF

- [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 15 to Figure 19.
- [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;

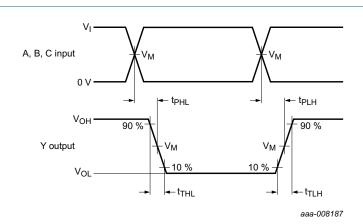
 V_{CC} = supply voltage in V;

N = number of inputs switching.

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11.1 Waveforms and graphs



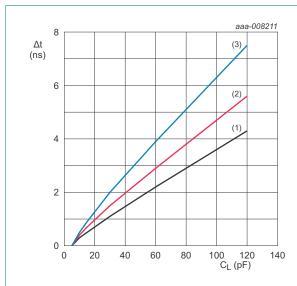
Measurement points are given in Table 10.

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

Fig 14. Input A, B and C to output Y propagation delay times and output transition times

Table 10. Measurement points

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



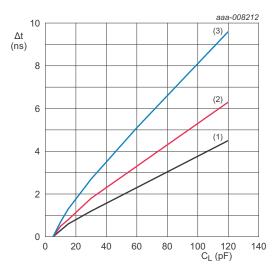
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

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

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

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

Fig 15. Additional t_{pd} versus load capacitance



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

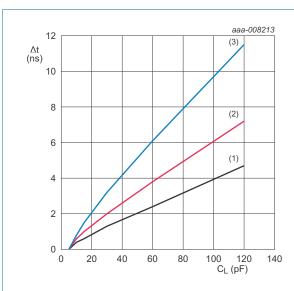
(1) Minimum: $V_{CC} = 1.95 \text{ V}$

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

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

Fig 16. Additional t_{pd} versus load capacitance

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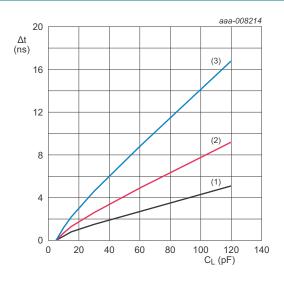
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

(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 17. Additional t_{pd} versus load capacitance



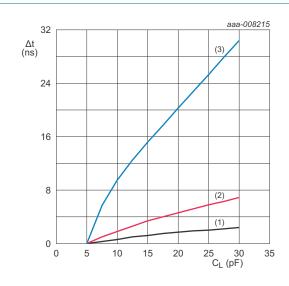
 $T_{amb} = -40$ °C to +85 °C unless otherwise specified.

(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 18. Additional tpd versus load capacitance



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

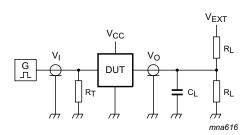
(1) Minimum: $V_{CC} = 0.85 \text{ V}$

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

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

Fig 19. Additional t_{pd} versus load capacitance

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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 20. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	Load		V _{EXT}			
V _{CC}	CL	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	2V _{CC}	

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12. Package outline

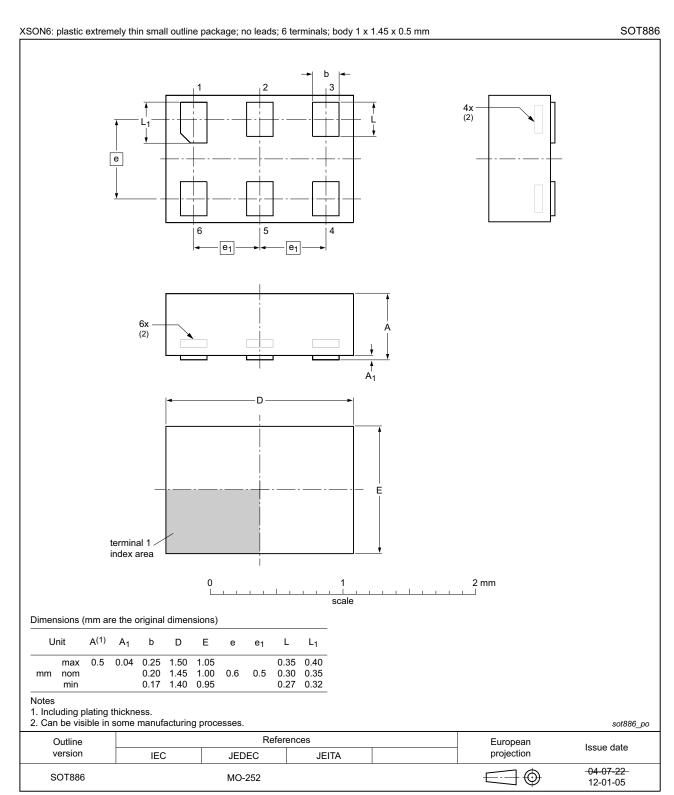


Fig 21. Package outline SOT886 (XSON6)

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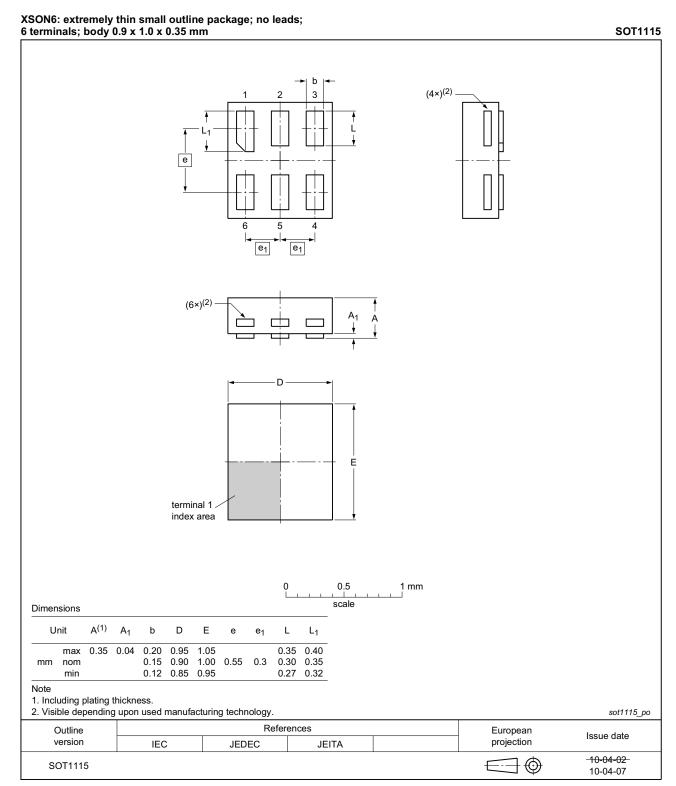


Fig 22. Package outline SOT1115 (XSON6)

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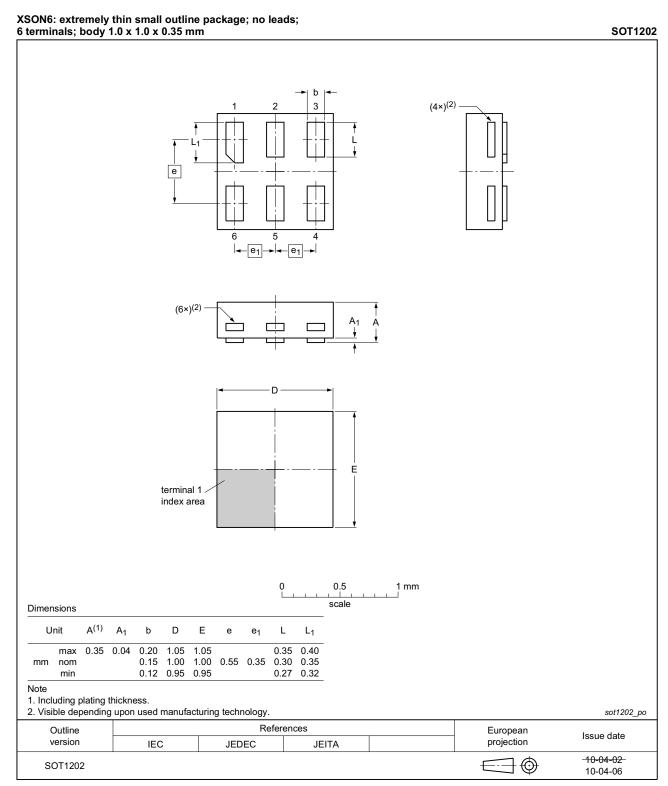


Fig 23. Package outline SOT1202 (XSON6)

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74AXP1G58

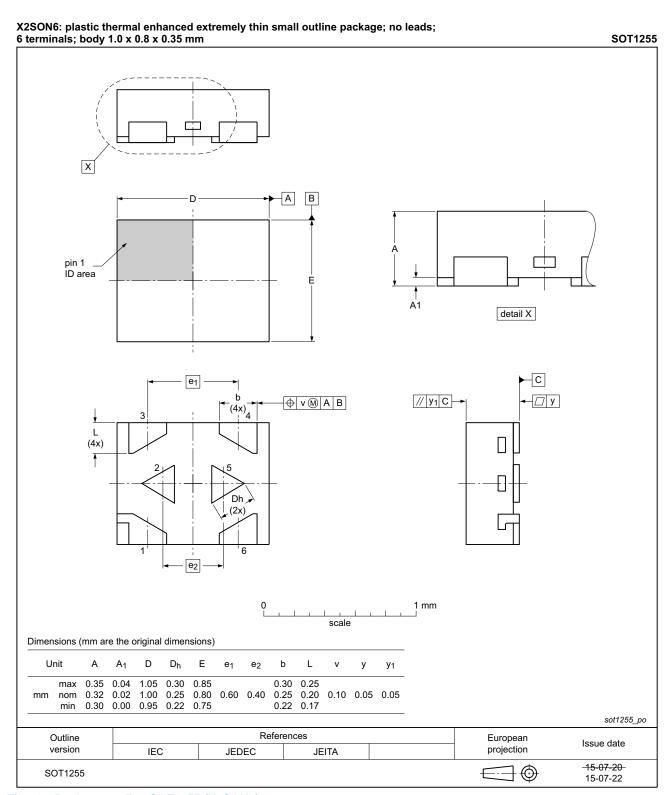


Fig 24. Package outline SOT1255 (X2SON6)

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13. Abbreviations

Table 12. Abbreviations

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

14. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AXP1G58 v.3	20150916	Product data sheet	-	74AXP1G58 v.2	
Modifications:	Added type number 74AXP1G58GX (SOT1255/X2SON6).				
74AXP1G58 v.2	20140724	Product data sheet	-	74AXP1G58 v.1	
Modifications:	Data sheet status changed to product data sheet.				
74AXP1G58 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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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.

15.4 Trademarks

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

16. Contact information

For more information, please visit: http://www.nexperia.com

For sales office addresses, please send an email to: salesaddresses@nexperia.com

74AXP1G58

Low-power configurable multiple function gate

Nexperia

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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

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- 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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