Low-power configurable multiple function gate Rev. 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<sub>CC</sub> or GND.

This device ensures very low static and dynamic power consumption across the entire V<sub>CC</sub> range from 0.7 V to 2.75 V. This device is fully specified for partial power-down applications using I<sub>OFF</sub>. The I<sub>OFF</sub> 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<sub>1</sub> = 0.5 pF (typical)
- Low output capacitance; C<sub>O</sub> = 1.0 pF (typical)
- Low dynamic power consumption; C<sub>PD</sub> = 2.7 pF at V<sub>CC</sub> = 1.2 V (typical)
- Low static power consumption; I<sub>CC</sub> = 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<sub>CC</sub>
- I<sub>OFF</sub> circuitry provides partial power-down mode operation
- Multiple package options
- Specified from –40 °C to +85 °C

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#### Low-power configurable multiple function gate

### 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			

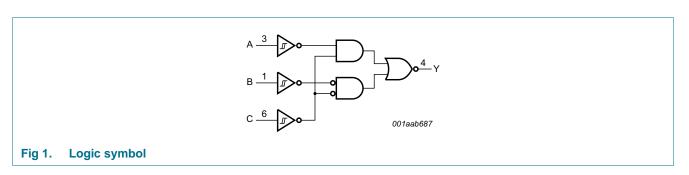
### 4. Marking

#### Table 2. Marking codes

Type number	Marking code <sup>[1]</sup>
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.

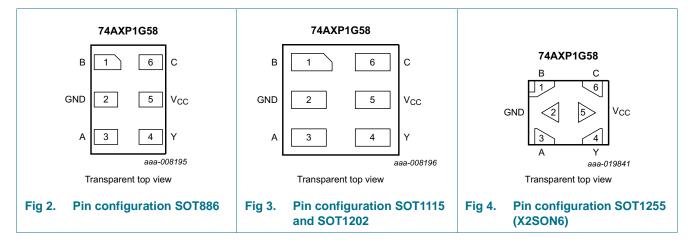
### 5. Functional diagram



Low-power configurable multiple function gate

## 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
Y	4	data output
V <sub>CC</sub>	5	supply voltage
С	6	data input

## 7. Functional description

#### Table 4.Function table<sup>[1]</sup>

Input			Output
C	В	Α	Y
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

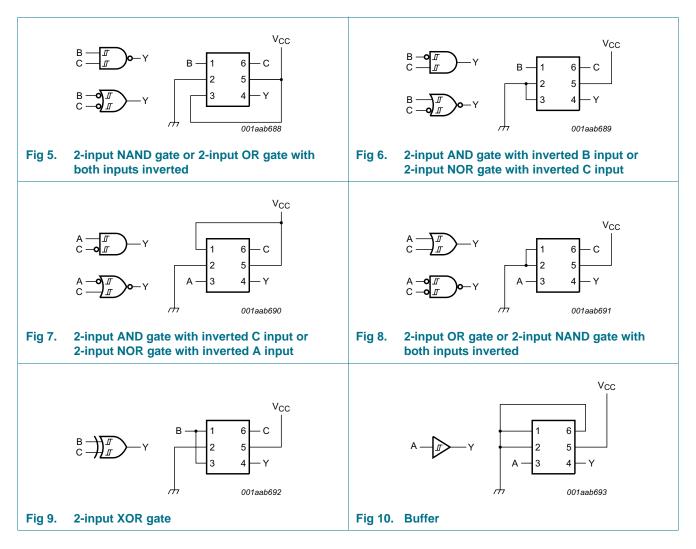
[1] H = HIGH voltage level; L = LOW voltage level.

Low-power configurable multiple function gate

### 7.1 Logic configurations

#### Table 5.Function selection table

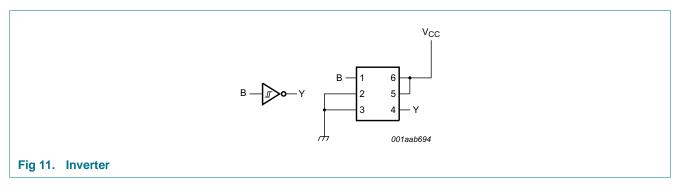
Logic function	Figure
2-input NAND	see <u>Figure 5</u>
2-input NAND with both inputs inverted	see Figure 8
2-input AND with inverted input	see <u>Figure 6</u> and <u>Figure 7</u>
2-input NOR with inverted input	see <u>Figure 6</u> and <u>Figure 7</u>
2-input OR	see Figure 8
2-input OR with both inputs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



74AXP1G58 Product data sheet

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#### Low-power configurable multiple function gate



### 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 <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	$T_{amb} = -40 \text{ °C to } +85 \text{ °C}$	-	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 <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; $V_{CC} = 0 V$	0	2.75	V
T <sub>amb</sub>	ambient temperature		-40	+85	°C

74AXP1G58 Product data sheet

#### Low-power configurable multiple function gate

## **10. Static characteristics**

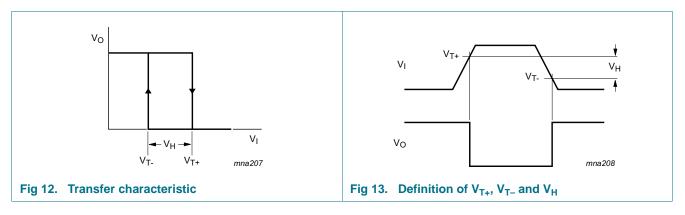
#### Table 8. Static characteristics

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

Symbol	Parameter	Conditions		T <sub>amb</sub> = -40	°C to +85 °C		Unit
			Min	Typ 25 °C	Max 25 °C	Max 85 °C	
V <sub>T+</sub>	positive-going	see Figure 12 and Figure 13					
	threshold voltage	$V_{CC} = 0.75 \text{ V} \text{ to } 0.85 \text{ V}$	0.3V <sub>CC</sub>	-	0.8V <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>	$0.7V_{CC}$	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	0.9	-	1.7	1.7	V
V <sub>T-</sub>	negative-going	see Figure 12 and Figure 13					
	threshold voltage	$V_{CC} = 0.75 \text{ V} \text{ to } 0.85 \text{ V}$	0.2V <sub>CC</sub>	-	0.7V <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>	0.6V <sub>CC</sub>	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	0.7	-	1.5	1.5	V
V <sub>H</sub>	hysteresis	see Figure 12 and Figure 13					
	voltage	$V_{CC} = 0.75 \text{ V} \text{ to } 0.85 \text{ V}$	0.06V <sub>CC</sub>	-	0.5V <sub>CC</sub>	$0.5V_{CC}$	V
		V <sub>CC</sub> = 1.1 V to 1.95 V	0.1V <sub>CC</sub>	-	0.4V <sub>CC</sub>	$0.4V_{CC}$	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	0.2	-	1.0	1.0	V
V <sub>он</sub>	HIGH-level	$I_0 = -20 \ \mu\text{A}; \ V_{CC} = 0.7 \ \text{V}$	-	0.69	-	-	V
	output voltage	$I_0 = -100 \ \mu\text{A}; \ V_{CC} = 0.75 \ \text{V}$	0.65	-	-	-	V
	$I_0 = -2 \text{ mA}; V_{CC} = 1.1 \text{ V}$	0.825	-	-	-	V	
		$I_0 = -3 \text{ mA}; V_{CC} = 1.4 \text{ V}$	1.05	-	-	-	V
		$I_0 = -4.5 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	-	V
		$I_0 = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.7	-	-	-	V
V <sub>OL</sub>	LOW-level	$I_0 = 20 \ \mu A; \ V_{CC} = 0.7 \ V$	-	0.01	-	-	V
	output voltage	$I_0 = 100 \ \mu A; \ V_{CC} = 0.75 \ V$	-	-	0.1	0.1	V
		$I_0 = 2 \text{ mA}; V_{CC} = 1.1 \text{ V}$	-	-	0.275	0.275	V
		$I_0 = 3 \text{ mA}; V_{CC} = 1.4 \text{ V}$	-	-	0.35	0.35	V
		$I_{O}$ = 4.5 mA; $V_{CC}$ = 1.65 V	-	-	0.45	0.45	V
		$I_0 = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.7	0.7	V
	input leakage current	$V_{I} = 0 V \text{ to } 2.75 V;$ $V_{CC} = 0 V \text{ to } 2.75 V$	1 -	0.001	±0.1	±0.5	μA
OFF	power-off leakage current	$V_{I}$ or $V_{O} = 0$ V to 2.75 V; $V_{CC} = 0$ V	1 -	0.01	±0.1	±0.5	μA
∆I <sub>OFF</sub>	additional power-off leakage current		1 -	0.02	±0.1	±0.5	μΑ
СС	supply current	$V_{I} = 0 V \text{ or } V_{CC}; I_{O} = 0 A$	1 -	0.01	0.3	0.6	μΑ
∆l <sub>CC</sub>	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	μA

[1] Typical values are measured at V<sub>CC</sub> = 1.2 V.

Low-power configurable multiple function gate



### 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.

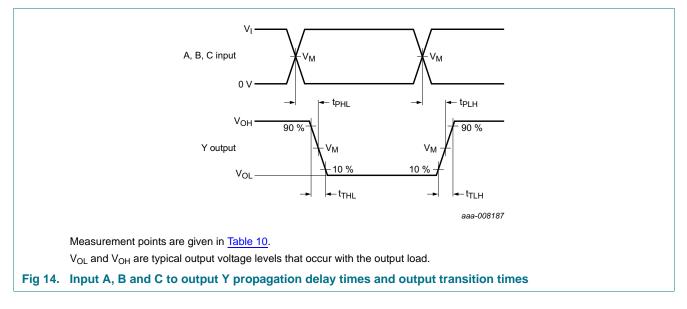
Symbol	Parameter	Conditions		Г <sub>ать</sub> = 25	°C	$T_{amb} = -40$	°C to +85 °C	Unit
				n Typ <mark>[1]</mark>	Max	Min	Max	
t <sub>pd</sub>	propagation delay	A, B and C to Y; see Figure 14	[3]					
		$V_{CC} = 0.75 \text{ V} \text{ to } 0.85 \text{ V}$	3.0	) 14	46	1	152	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	2.3	3 5.0	8.3	2.1	8.7	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	1.9	3.7	5.6	1.7	6.0	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.6	3.1	4.7	1.4	5.1	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.3	3 2.4	3.5	1.1	3.9	ns
t <sub>t</sub>	transition time	V <sub>CC</sub> = 2.7 V; see Figure 14	[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	$V_{O} = 0 V; V_{CC} = 0 V$	-	1.0	-	-	-	pF
C <sub>PD</sub>	power dissipation	$f_i = 1 \text{ MHz}; V_I = 0 \text{ V to } V_{CC}$	[5]					
	capacitance	$V_{CC} = 0.75 \text{ V} \text{ to } 0.85 \text{ V}$	-	2.5	-	-	-	pF
		V <sub>CC</sub> = 1.1 V to 1.3 V	-	2.6	-	-	-	pF
		V <sub>CC</sub> = 1.4 V to 1.6 V	-	2.7	-	-	-	pF
		V <sub>CC</sub> = 1.65 V to 1.95 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  $V_{\text{CC}}.$ 

- [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<sub>D</sub> 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<sub>i</sub> = 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.

74AXP1G58

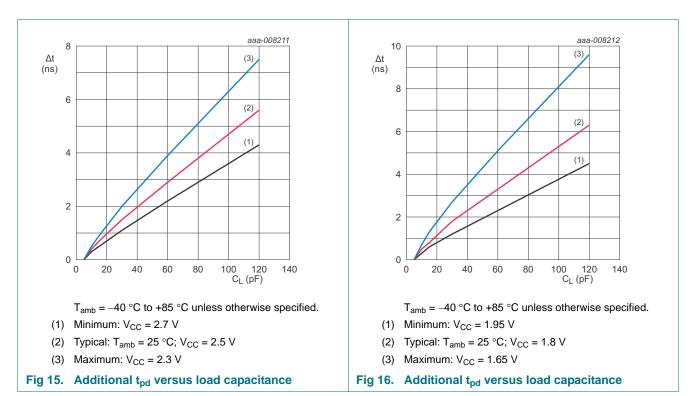
#### Low-power configurable multiple function gate



### 11.1 Waveforms and graphs

#### Table 10. Measurement points

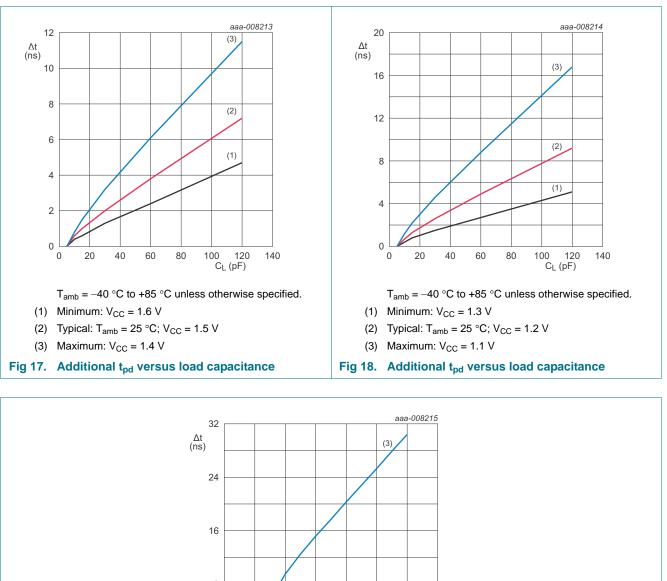
Supply voltage	Output	Input		
V <sub>CC</sub>	V <sub>M</sub>	V <sub>M</sub>	VI	$t_r = t_f$
0.75 V to 2.7 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>CC</sub>	≤ 3.0 ns



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## 74AXP1G58

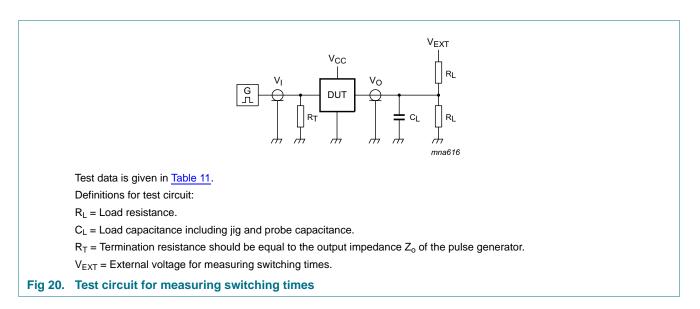
#### Low-power configurable multiple function gate



 $T_{amb} = -40 \text{ °C to } +85 \text{ °C unless otherwise specified.}$ (1) Minimum: V<sub>CC</sub> = 0.85 V

- (2) Typical:  $T_{amb} = 25 \text{ °C}; V_{CC} = 0.8 \text{ V}$
- (3) Maximum:  $V_{CC} = 0.75 V$
- Fig 19. Additional t<sub>pd</sub> versus load capacitance

#### Low-power configurable multiple function gate

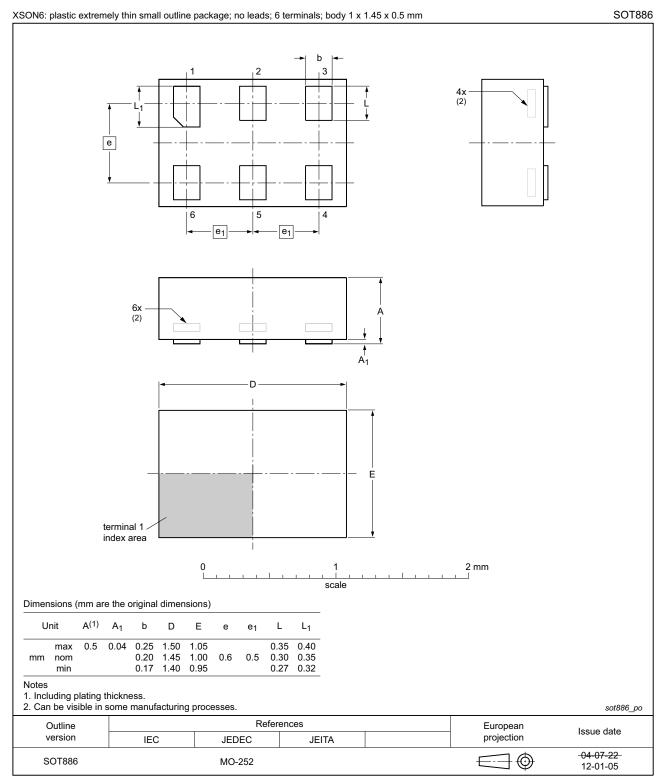


#### Table 11. Test data

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>	

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## 12. Package outline

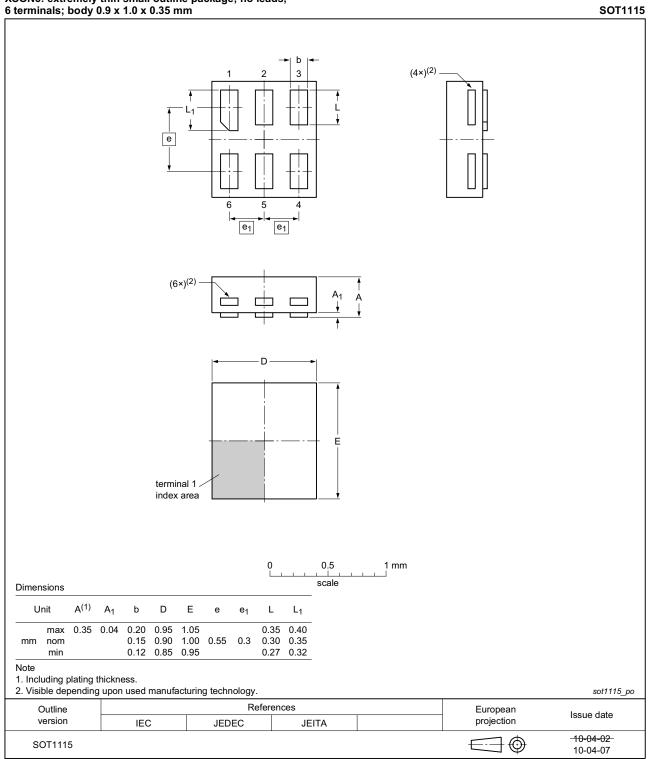


#### Fig 21. Package outline SOT886 (XSON6)

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74AXP1G58

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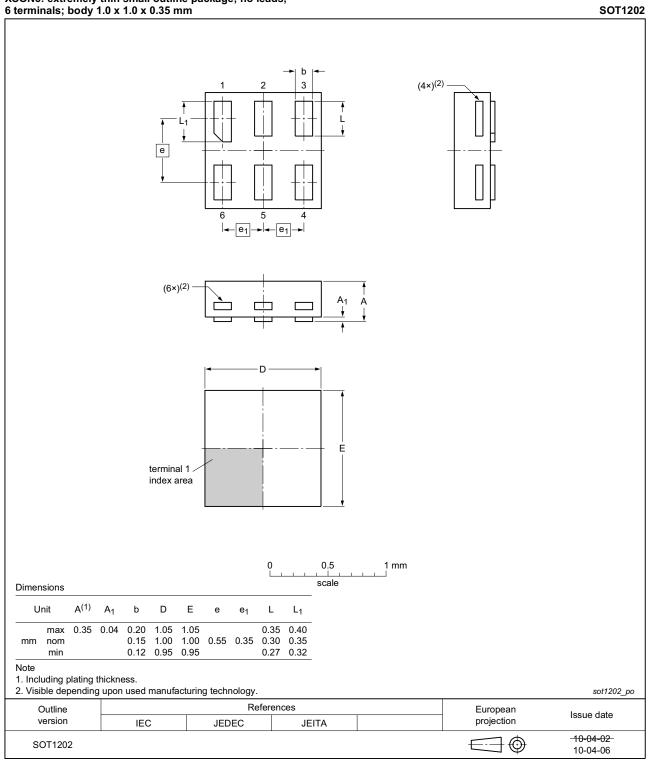


## XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

Fig 22. Package outline SOT1115 (XSON6)

74AXP1G58 **Product data sheet** 

Low-power configurable multiple function gate

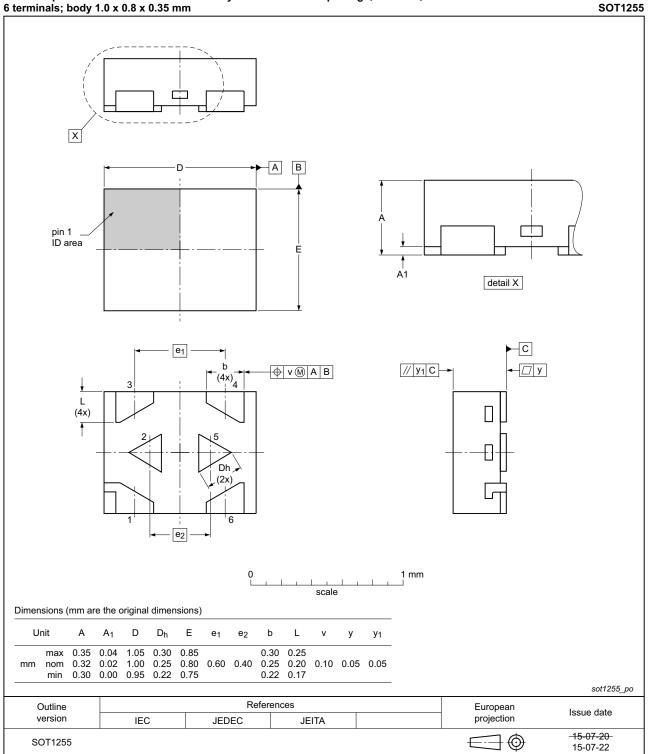


XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm

Fig 23. Package outline SOT1202 (XSON6)

74AXP1G58 **Product data sheet** 

#### Low-power configurable multiple function gate



#### X2SON6: plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 x 0.8 x 0.35 mm

Fig 24. Package outline SOT1255 (X2SON6)

74AXP1G58 **Product data sheet** 

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Low-power configurable multiple function gate

## **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
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	-	-

#### Low-power configurable multiple function gate

### **15. Legal information**

#### 15.1 Data sheet status

Document status[1][2]	Product status <sup>[3]</sup>	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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### 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

### 17. 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
7.1	Logic configurations 4
8	Limiting values 5
9	Recommended operating conditions 5
10	Static characteristics 6
10.1	Waveform transfer characteristics 7
11	Dynamic characteristics 7
11.1	Waveforms and graphs 8
12	Package outline 11
13	Abbreviations 15
14	Revision history 15
15	Legal information 16
15.1	Data sheet status 16
15.2	Definitions 16
15.3	Disclaimers
15.4	Trademarks 17
16	Contact information 17
17	Contents



#### ООО "ЛайфЭлектроникс"

ИНН 7805602321 КПП 780501001 Р/С 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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