# Low-power 2-input NOR gate Rev. 1 — 25 August 2014

**Product data sheet** 

#### **General description** 1.

The 74AXP1G02 is a single 2-input NOR gate.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

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. It 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>I</sub> = 0.5 pF (typical)
- Low output capacitance; C<sub>O</sub> = 1.0 pF (typical)
- Low dynamic power consumption;  $C_{PD} = 2.6 \text{ pF}$  at  $V_{CC} = 1.2 \text{ V}$  (typical)
- Low static power consumption;  $I_{CC} = 0.6 \mu A (85 \, ^{\circ}C \text{ maximum})$
- 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



## 3. Ordering information

Table 1. Ordering information

Type number	Package						
	Temperature range	Description	Version				
74AXP1G02GM	–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			
74AXP1G02GN	–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			
74AXP1G02GS	–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			
74AXP1G02GX	−40 °C to +85 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body $0.8 \times 0.8 \times 0.35$ mm	SOT1226			

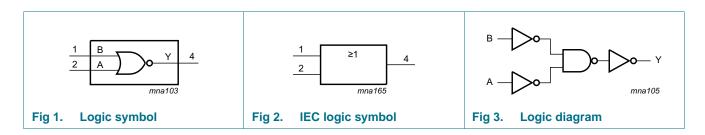
## 4. Marking

Table 2. Marking

Type number	Marking code <sup>[1]</sup>
74AXP1G02GM	rB
74AXP1G02GN	rB
74AXP1G02GS	rB
74AXP1G02GX	rВ

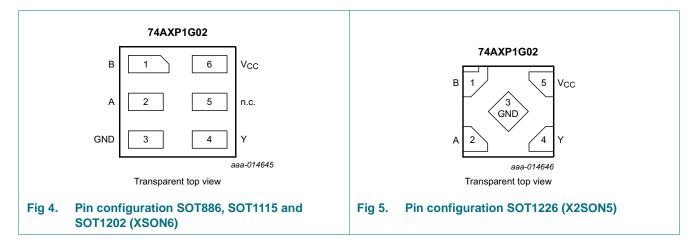
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

## 5. Functional diagram



## 6. Pinning information

#### 6.1 Pinning



## 6.2 Pin description

Table 3. Pin description

Symbol	Pin		Description
	X2SON5	XSON6	
В	1	1	data input
A	2	2	data input
GND	3	3	ground (0 V)
Υ	4	4	data output
n.c.	-	5	not connected
V <sub>CC</sub>	5	6	supply voltage

## 7. Functional description

Table 4. Function table[1]

Input	Output	
A	В	Υ
L	L	Н
L	Н	L
Н	L	L
Н	Н	L

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

## 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>I</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	$V_O = 0 \text{ V to } V_{CC}$	-	±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	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +85  ^{\circ}\text{C}$	-	250	mW

<sup>[1]</sup> 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. 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 <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
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 0.7 V to 2.75 V	0	200	ns/V

## 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		$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +85  ^{\circ}\text{C}$				Unit
				Min	Typ 25 °C	Max 25 °C	Max 85 °C	
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 0.75 V to 0.85 V		0.75V <sub>CC</sub>	-	-	-	V
	voltage	V <sub>CC</sub> = 1.1 V to 1.95 V		0.65V <sub>CC</sub>	-	-	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.6	-	-	-	V
$V_{IL}$	LOW-level input	V <sub>CC</sub> = 0.75 V to 0.85 V		-	-	0.25V <sub>CC</sub>	0.25V <sub>CC</sub>	V
	voltage	V <sub>CC</sub> = 1.1 V to 1.95 V		-	-	0.35V <sub>CC</sub>	0.35V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V		-	-	0.7	0.7	V
V <sub>OH</sub>	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	$I_O = 100 \mu A; V_{CC} = 0.75 \text{ V}$		-	-	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 <sub>I</sub>	input leakage current	V <sub>I</sub> = 0 V to 2.75 V; V <sub>CC</sub> = 0 V to 2.75 V	[1]	-	0.001	±0.1	±0.5	μΑ
I <sub>OFF</sub>	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	μΑ
$\Delta I_{OFF}$	additional power-off leakage current	$V_{I}$ or $V_{O} = 0$ V or 2.75 V; [1] $V_{CC} = 0$ V to 0.1 V		-	0.02	±0.1	±0.5	μА
I <sub>CC</sub>	supply current	$V_I = 0 \text{ V or } V_{CC}; I_O = 0 \text{ A}$	<u>[1]</u>	-	0.01	0.3	0.6	μΑ
Δl <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	μΑ

<sup>[1]</sup> Typical values are measured at  $V_{CC}$  = 1.2 V.

## 11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit, see Figure 12.

Symbol	Parameter	Conditions		T <sub>amb</sub> = 25 °C			$T_{amb} = -40$ °C to +85 °C	
			Min	Typ[1]	Max	Min	Max	
t <sub>pd</sub>	propagation	A, B to Y; see Figure 6	1					
	delay	V <sub>CC</sub> = 0.75 V to 0.85 V	2	11	32	1	98	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	1.9	4.3	6.7	1.7	7.0	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	1.5	3.3	5.1	1.3	5.3	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.3	2.6	3.8	1.1	4.0	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.1	2.0	2.8	0.9	3.0	ns
t <sub>t</sub>	transition time	V <sub>CC</sub> = 2.7 V; see <u>Figure 6</u> [4	-	-	-	1.0	-	ns
C <sub>I</sub>	input capacitance	V <sub>I</sub> = 0 V or V <sub>CC</sub> ; V <sub>CC</sub> = 0 V to 2.75 V	-	0.5	-	-	-	pF
Co	output capacitance	$V_{O} = 0 \text{ V}; V_{CC} = 0 \text{ V}$	-	1.0	-	-	-	pF
C <sub>PD</sub>		$f_i = 1 \text{ MHz}; V_I = 0 \text{ V to } V_{CC}$	1					
	capacitance	V <sub>CC</sub> = 0.75 V to 0.85 V	-	2.4	-	-	-	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	-	2.5	-	-	-	pF
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	2.8	-	-	-	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 7 to Figure 11.
- [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  $\mu W$ ).

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

f<sub>i</sub> = input frequency in MHz;

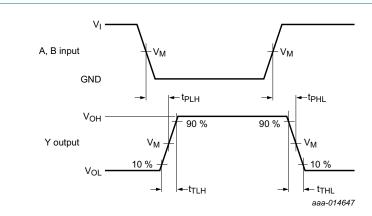
 $f_0$  = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

 $V_{CC}$  = supply voltage in V;

N = number of inputs switching.

## 12. Waveforms



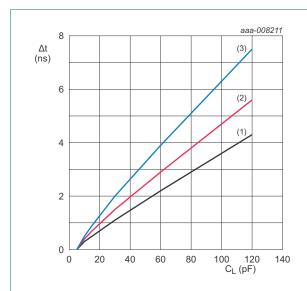
Measurement points are given in Table 9.

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

Fig 6. The data input (A, B) to output (Y) propagation delays

Table 9. Measurement points

Supply voltage	Input	Output		
V <sub>CC</sub>	V <sub>M</sub>	V <sub>I</sub>	$t_r = t_f$	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>



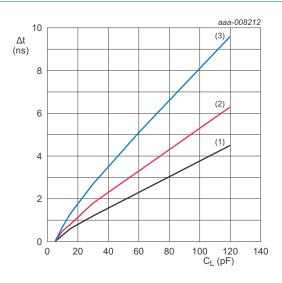
 $T_{amb}$  = -40 °C to +85 °C unless otherwise specified.

(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 7. Additional t<sub>pd</sub> versus load capacitance



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

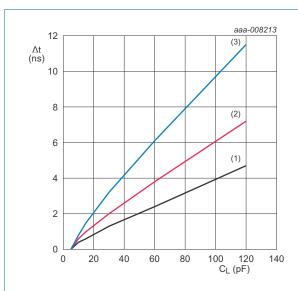
(1) Minimum:  $V_{CC} = 1.95 \text{ V}$ 

(2) Typical:  $T_{amb}$  = 25 °C;  $V_{CC}$  = 1.8 V

(3) Maximum: V<sub>CC</sub> = 1.65 V

Fig 8. Additional t<sub>pd</sub> versus load capacitance

#### Low-power 2-input NOR gate



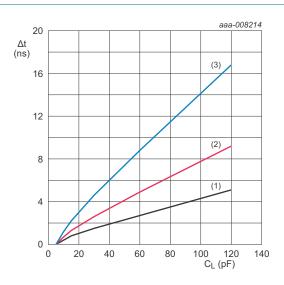
 $T_{amb}$  = -40 °C to +85 °C unless otherwise specified.

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

(2) Typical:  $T_{amb}$  = 25 °C;  $V_{CC}$  = 1.5 V

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

Fig 9. Additional tpd versus load capacitance



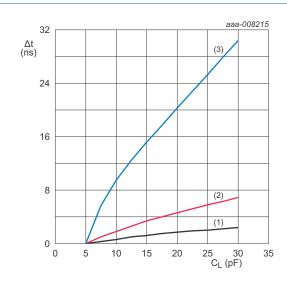
 $T_{amb} = -40$  °C to +85 °C unless otherwise specified.

(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 10. Additional tpd versus load capacitance



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

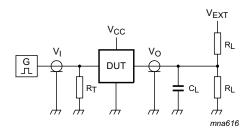
(1) Minimum:  $V_{CC} = 0.85 \text{ V}$ 

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

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

Fig 11. Additional t<sub>pd</sub> versus load capacitance

#### Low-power 2-input NOR gate



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.

 $V_{\text{EXT}}$  = External voltage for measuring switching times.

Fig 12. Test circuit for measuring switching times

#### Table 10. Test data

Supply voltage	Load		V <sub>EXT</sub>		
V <sub>CC</sub>	C <sub>L</sub>	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub> t <sub>PZH</sub> , t <sub>PHZ</sub> t <sub>PZL</sub> , t <sub>PL</sub>		t <sub>PZL</sub> , t <sub>PLZ</sub>
0.75 V to 2.7 V	5 pF	10 kΩ	0 V	0 V	$2 \times V_{CC}$

## 13. Package outline

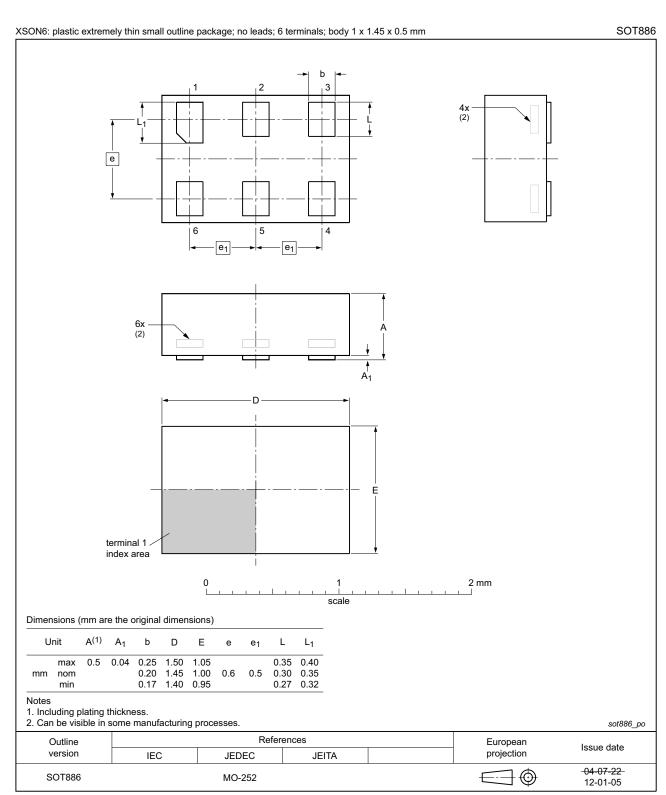


Fig 13. Package outline SOT886 (XSON6)

74AXP1G02

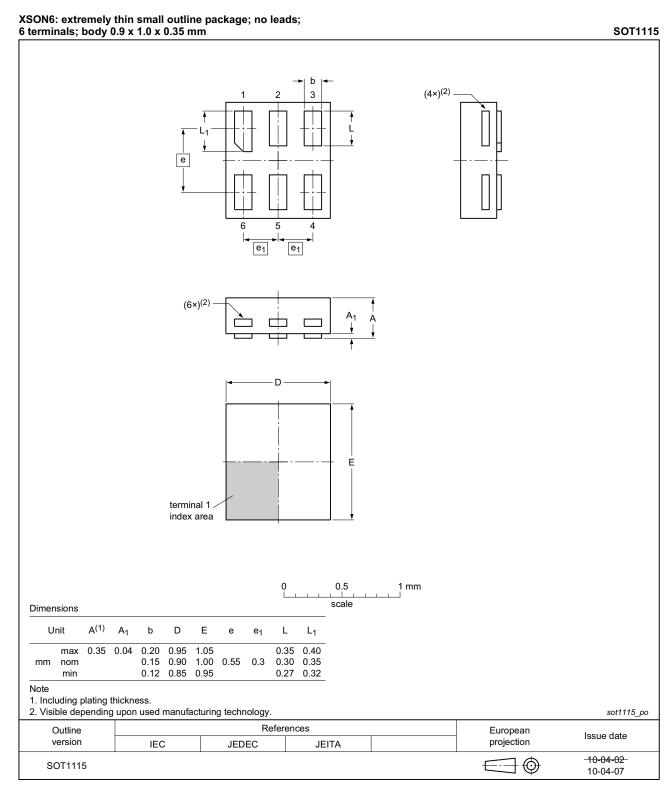


Fig 14. Package outline SOT1115 (XSON6)

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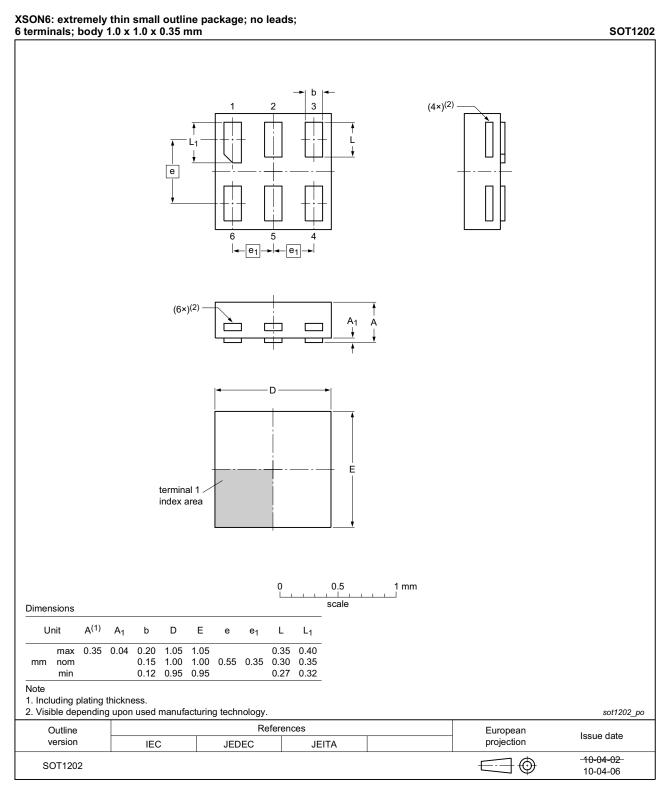


Fig 15. Package outline SOT1202 (XSON6)

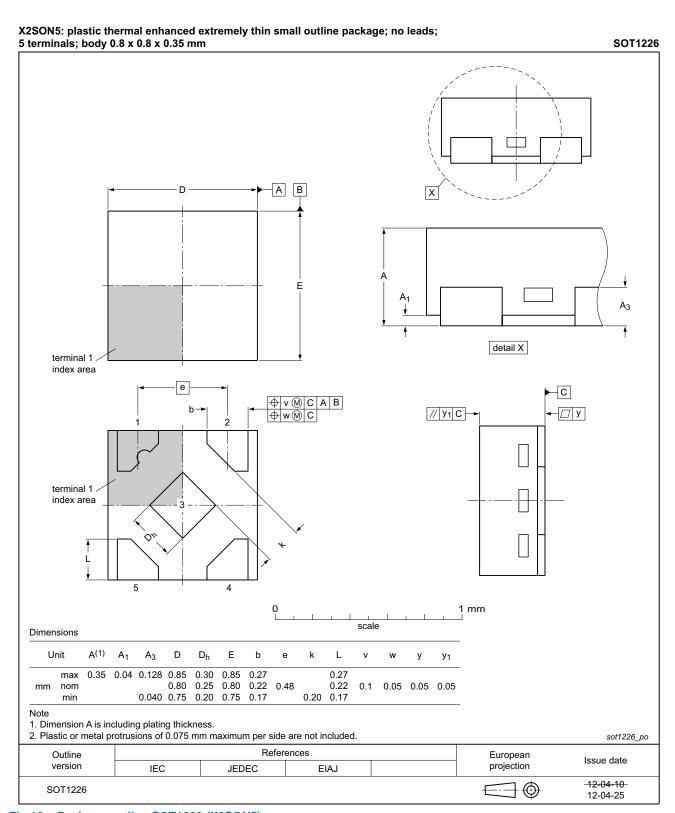


Fig 16. Package outline SOT1226 (X2SON5)

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Low-power 2-input NOR gate

## 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
74AXP1G02 v.1	20140825	Product data sheet	-	-

## 16. Legal information

#### 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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#### Low-power 2-input NOR gate

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#### 17. Contact information

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

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

#### Low-power 2-input NOR gate

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