

74AXP1G58

Low-power configurable multiple function gate

Rev. 4 — 7 October 2021

Product data sheet

1. General description

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.

2. Features and benefits

- 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; $I_{CC} = 0.6$ μ A (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

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 × 1.45 × 0.5 mm	SOT886
74AXP1G58GN	-40 °C to +85 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115
74AXP1G58GS	-40 °C to +85 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202
74AXP1G58GX	-40 °C to +85 °C	X2SON6	plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm	SOT1255-2

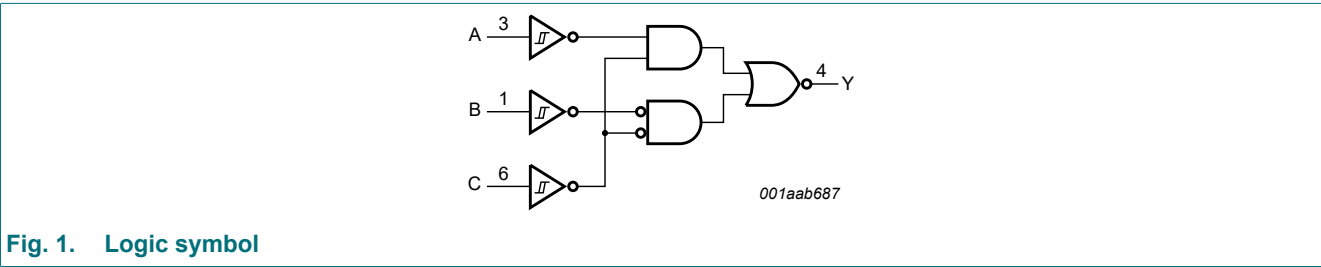
4. Marking

Table 2. Marking codes

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

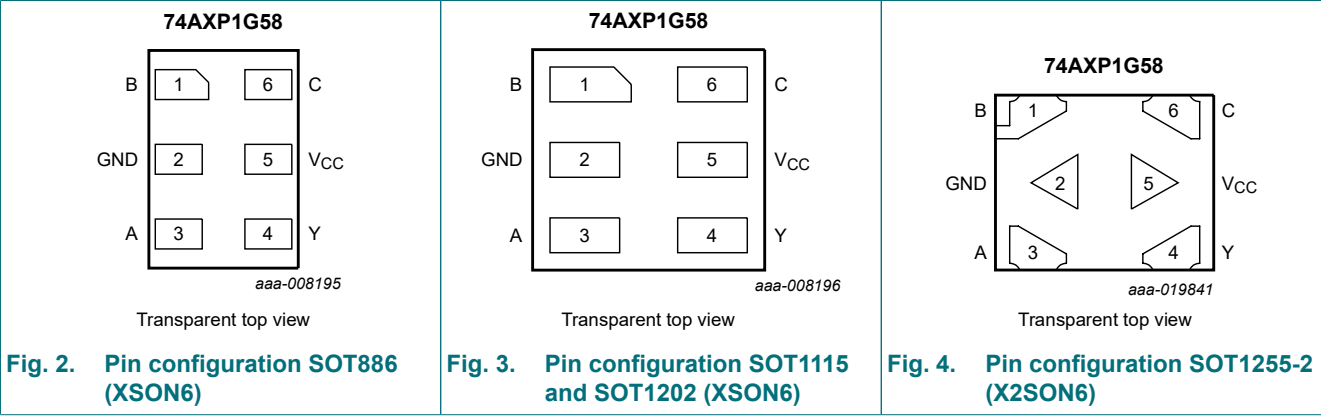
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

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

7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level.

Input			Output
C	B	A	Y
L	L	L	L
L	L	H	H
L	H	L	L
L	H	H	H
H	L	L	H
H	L	H	H
H	H	L	L
H	H	H	L

7.1. Logic configurations

Table 5. Function selection table

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

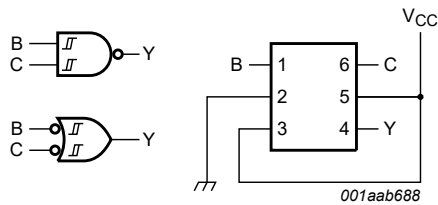


Fig. 5. 2-input NAND gate or 2-input OR gate with both inputs inverted

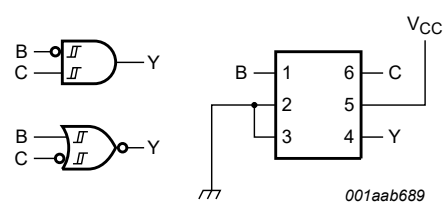


Fig. 6. 2-input AND gate with inverted B input or 2-input NOR gate with inverted C input

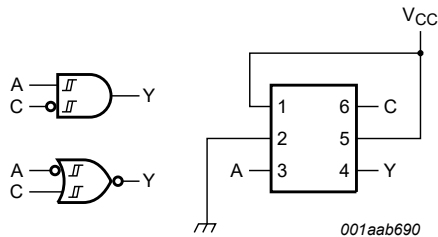


Fig. 7. 2-input AND gate with inverted C input or 2-input NOR gate with inverted A input

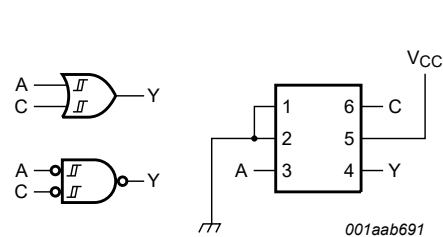


Fig. 8. 2-input OR gate or 2-input NAND gate with both inputs inverted

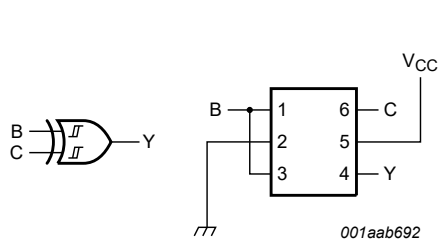


Fig. 9. 2-input XOR gate

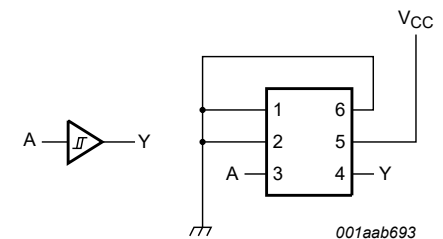


Fig. 10. Buffer

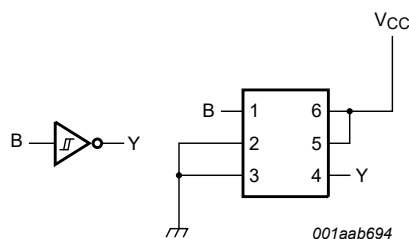


Fig. 11. Inverter

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
V_O	output voltage	[1]	-0.5	+3.3	V
I_O	output current	$V_O = 0$ 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	$T_{amb} = -40$ °C to +85 °C [2]	-	250	mW

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

[2] For SOT886 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package: P_{tot} derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1255-2 (X2SON6) package: P_{tot} derates linearly with 3.3 mW/K above 75 °C.

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
V_I	input voltage		0	2.75	V
V_O	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 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			T _{amb} = -40 °C to +85 °C		Unit
			Min	Typ	Max	Min	Max	
V _{T+}	positive-going threshold voltage	see Fig. 12 and Fig. 13						
		V _{CC} = 0.75 V to 0.85 V	0.3V _{CC}	-	0.8V _{CC}	0.3V _{CC}	0.8V _{CC}	V
		V _{CC} = 1.1 V to 1.95 V	0.4V _{CC}	-	0.7V _{CC}	0.4V _{CC}	0.7V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	0.9	-	1.7	0.9	1.7	V
V _{T-}	negative-going threshold voltage	see Fig. 12 and Fig. 13						
		V _{CC} = 0.75 V to 0.85 V	0.2V _{CC}	-	0.7V _{CC}	0.2V _{CC}	0.7V _{CC}	V
		V _{CC} = 1.1 V to 1.95 V	0.3V _{CC}	-	0.6V _{CC}	0.3V _{CC}	0.6V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	0.7	-	1.5	0.7	1.5	V
V _H	hysteresis voltage	see Fig. 12 and Fig. 13						
		V _{CC} = 0.75 V to 0.85 V	0.06V _{CC}	-	0.5V _{CC}	0.06V _{CC}	0.5V _{CC}	V
		V _{CC} = 1.1 V to 1.95 V	0.1V _{CC}	-	0.4V _{CC}	0.1V _{CC}	0.4V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	0.2	-	1.0	0.2	1.0	V
V _{OH}	HIGH-level output voltage	I _O = -20 µA; V _{CC} = 0.7 V	-	0.69	-	-	-	V
		I _O = -100 µA; V _{CC} = 0.75 V	0.65	-	-	0.65	-	V
		I _O = -2 mA; V _{CC} = 1.1 V	0.825	-	-	0.825	-	V
		I _O = -3 mA; V _{CC} = 1.4 V	1.05	-	-	1.05	-	V
		I _O = -4.5 mA; V _{CC} = 1.65 V	1.2	-	-	1.2	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.7	-	-	1.7	-	V
V _{OL}	LOW-level output voltage	I _O = 20 µA; V _{CC} = 0.7 V	-	0.01	-	-	-	V
		I _O = 100 µA; 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 mA; V _{CC} = 1.4 V	-	-	0.35	-	0.35	V
		I _O = 4.5 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.45	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.7	-	0.7	V
I _I	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	µA
I _{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
ΔI _{OFF}	additional power-off leakage current	V _I or V _O = 0 V or 2.75 V; V _{CC} = 0 V to 0.1 V [1]	-	0.02	±0.1	-	±0.5	µA
I _{CC}	supply current	V _I = 0 V or V _{CC} ; I _O = 0 A [1]	-	0.01	0.3	-	0.6	µA
ΔI _{CC}	additional supply current	V _I = V _{CC} - 0.5 V; I _O = 0 A; V _{CC} = 2.5 V	-	2	100	-	150	µA

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

10.1. Waveform transfer characteristics

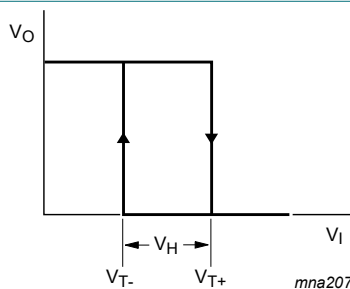
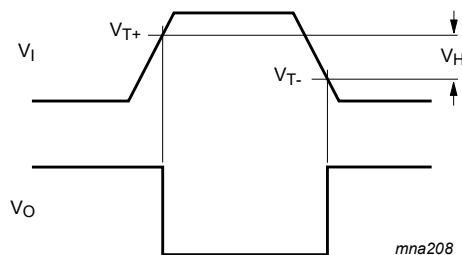


Fig. 12. Transfer characteristic

Fig. 13. Definition of V_{T+} , V_{T-} and V_H

11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit, see Fig. 20.

Symbol	Parameter	Conditions	$T_{amb} = 25\text{ }^{\circ}\text{C}$			$T_{amb} = -40\text{ }^{\circ}\text{C to } +85\text{ }^{\circ}\text{C}$		Unit
			Min	Typ[1]	Max	Min	Max	
t_{pd}	propagation delay	A, B and C to Y; see Fig. 14 [2] [3]						
		$V_{CC} = 0.75\text{ V to } 0.85\text{ V}$	3.0	14	46	1	152	ns
		$V_{CC} = 1.1\text{ V to } 1.3\text{ V}$	2.3	5.0	8.3	2.1	8.7	ns
		$V_{CC} = 1.4\text{ V to } 1.6\text{ V}$	1.9	3.7	5.6	1.7	6.0	ns
		$V_{CC} = 1.65\text{ V to } 1.95\text{ V}$	1.6	3.1	4.7	1.4	5.1	ns
		$V_{CC} = 2.3\text{ V to } 2.7\text{ V}$	1.3	2.4	3.5	1.1	3.9	ns
t_t	transition time	$V_{CC} = 2.7\text{ V}$; see Fig. 14 [4]	-	-	-	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
C_o	output capacitance	$V_o = 0\text{ V}$; $V_{CC} = 0\text{ V}$	-	1.0	-	-	-	pF
C_{PD}	power dissipation capacitance	$f_i = 1\text{ MHz}$; $V_i = 0\text{ V to } V_{CC}$ [5]						
		$V_{CC} = 0.75\text{ V to } 0.85\text{ V}$	-	2.5	-	-	-	pF
		$V_{CC} = 1.1\text{ V to } 1.3\text{ V}$	-	2.6	-	-	-	pF
		$V_{CC} = 1.4\text{ V to } 1.6\text{ V}$	-	2.7	-	-	-	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 Fig. 15 to Fig. 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).

$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + C_L \times V_{CC}^2 \times f_o$ 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, graphs and test circuit

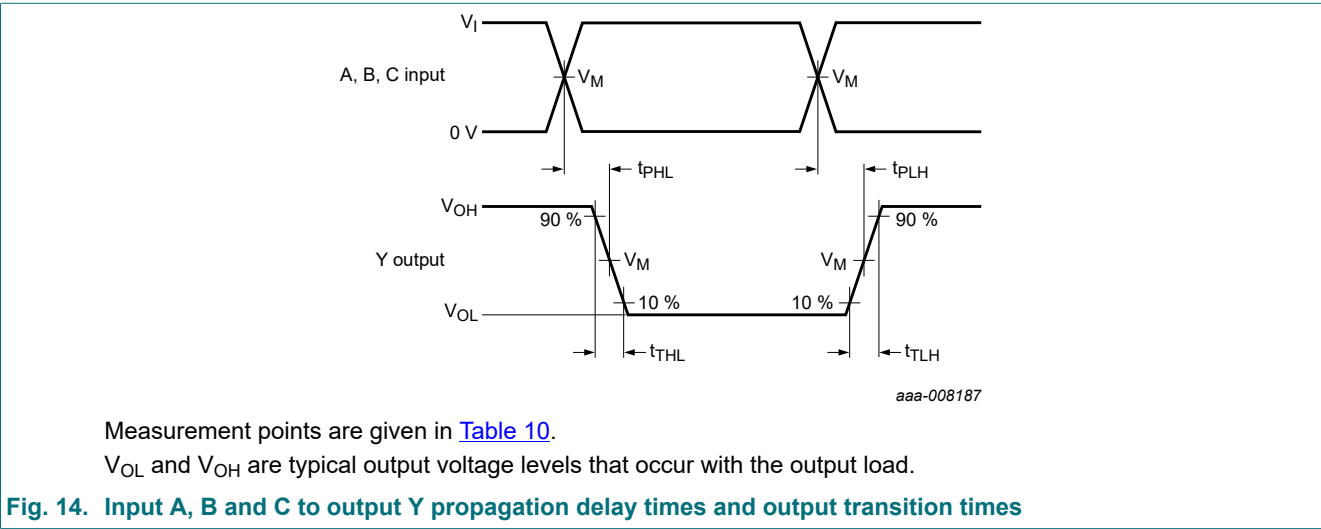
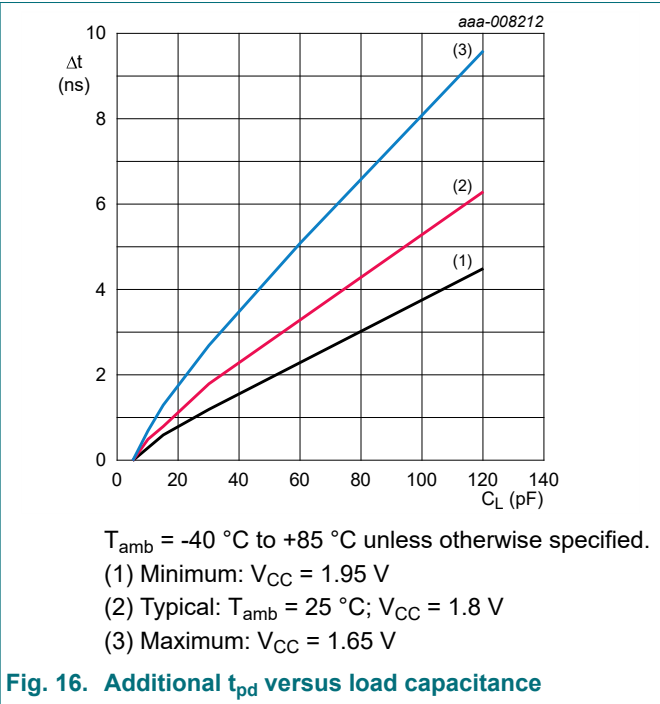
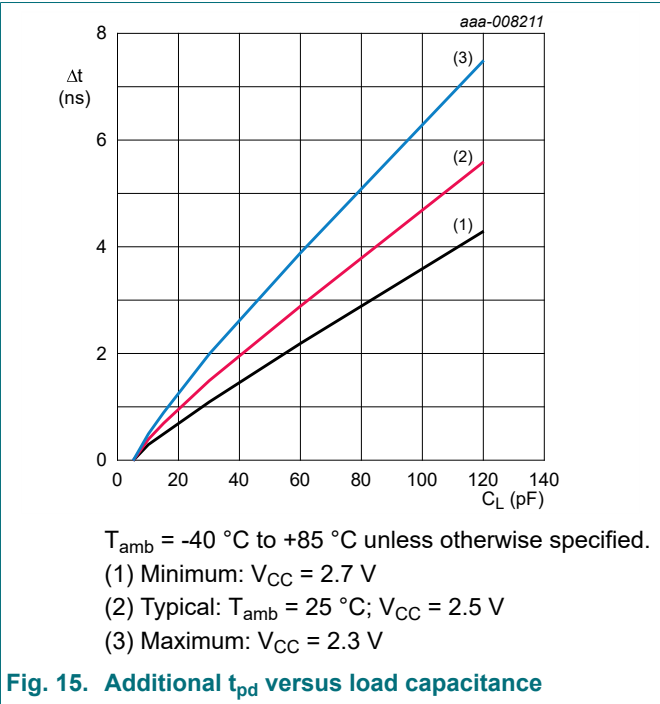
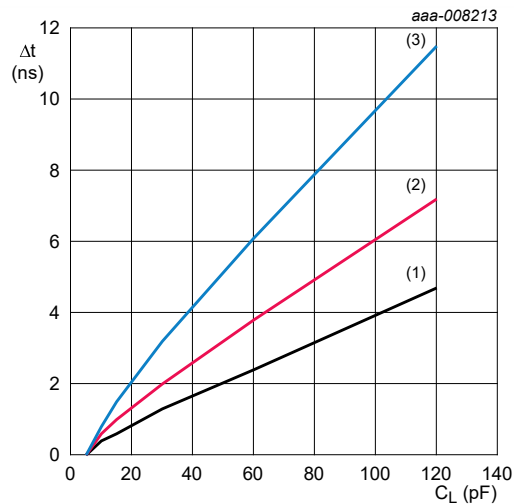


Table 10. Measurement points

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





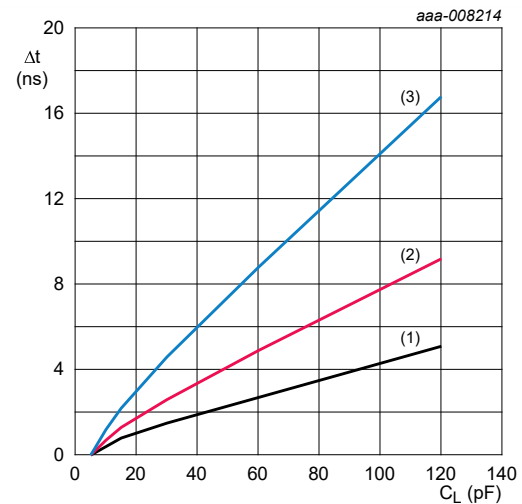
$T_{amb} = -40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ unless otherwise specified.

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

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

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

Fig. 17. Additional t_{pd} versus load capacitance



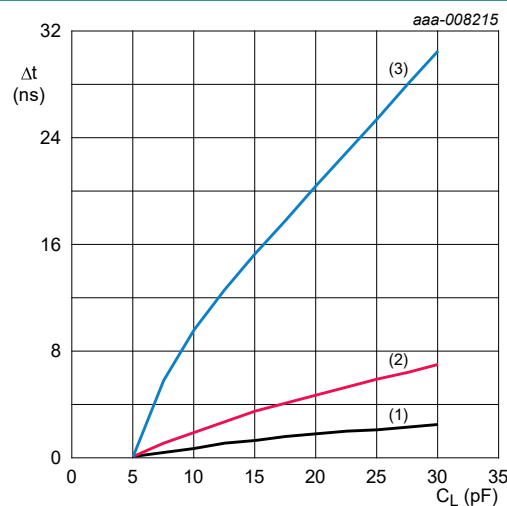
$T_{amb} = -40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ unless otherwise specified.

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

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

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

Fig. 18. Additional t_{pd} versus load capacitance



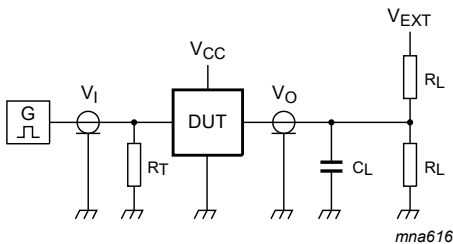
$T_{amb} = -40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ unless otherwise specified.

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

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

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

Fig. 19. Additional t_{pd} 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_o 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}		C_L	R_L	t_{PLH}, t_{PHL}	t_{PZH}, t_{PHZ}
0.75 V to 2.7 V		5 pF	10 kΩ	0 V	0 V
					$2V_{CC}$

12. Package outline

XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm SOT886

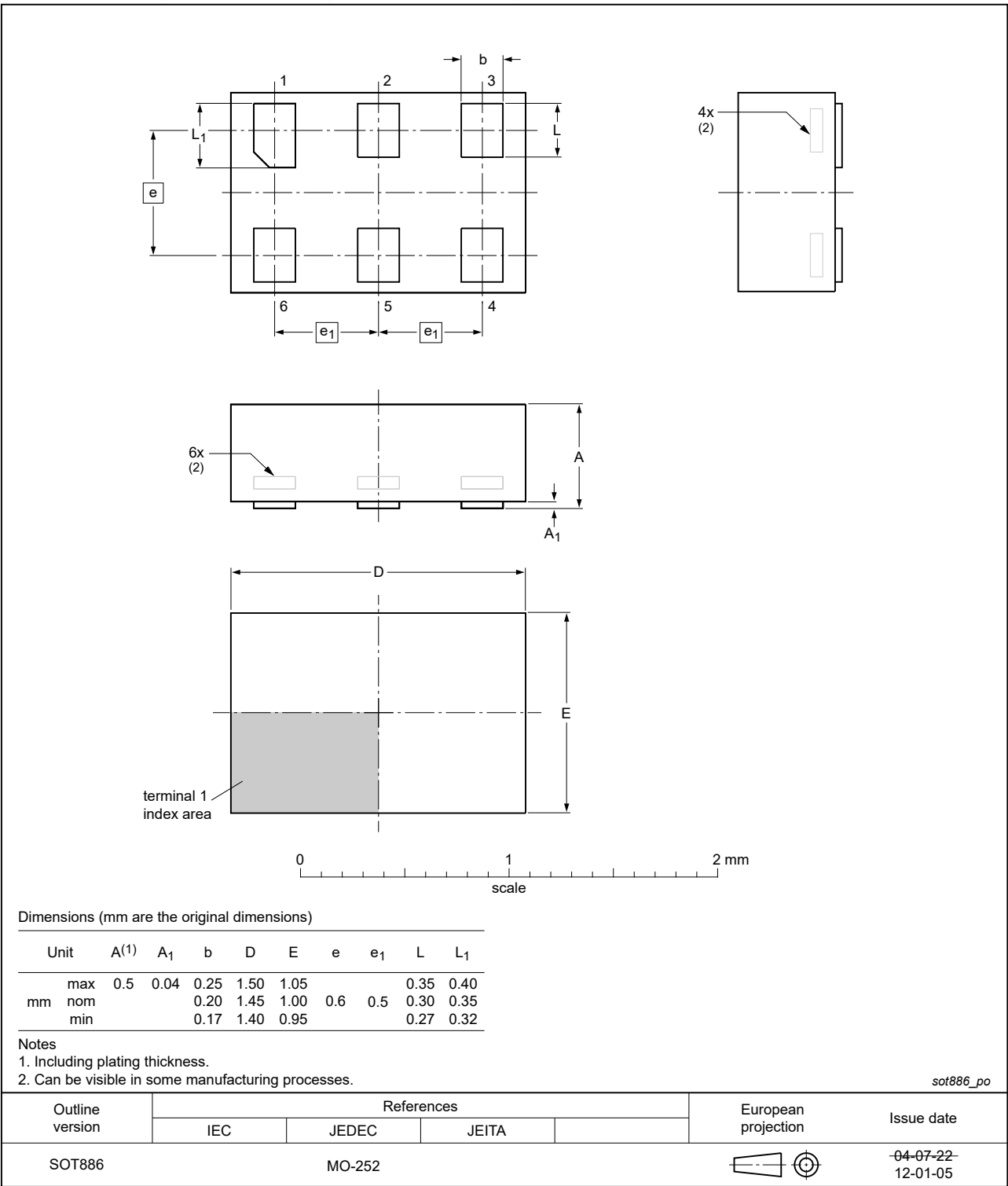


Fig. 21. Package outline SOT886 (XSON6)

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

SOT1115

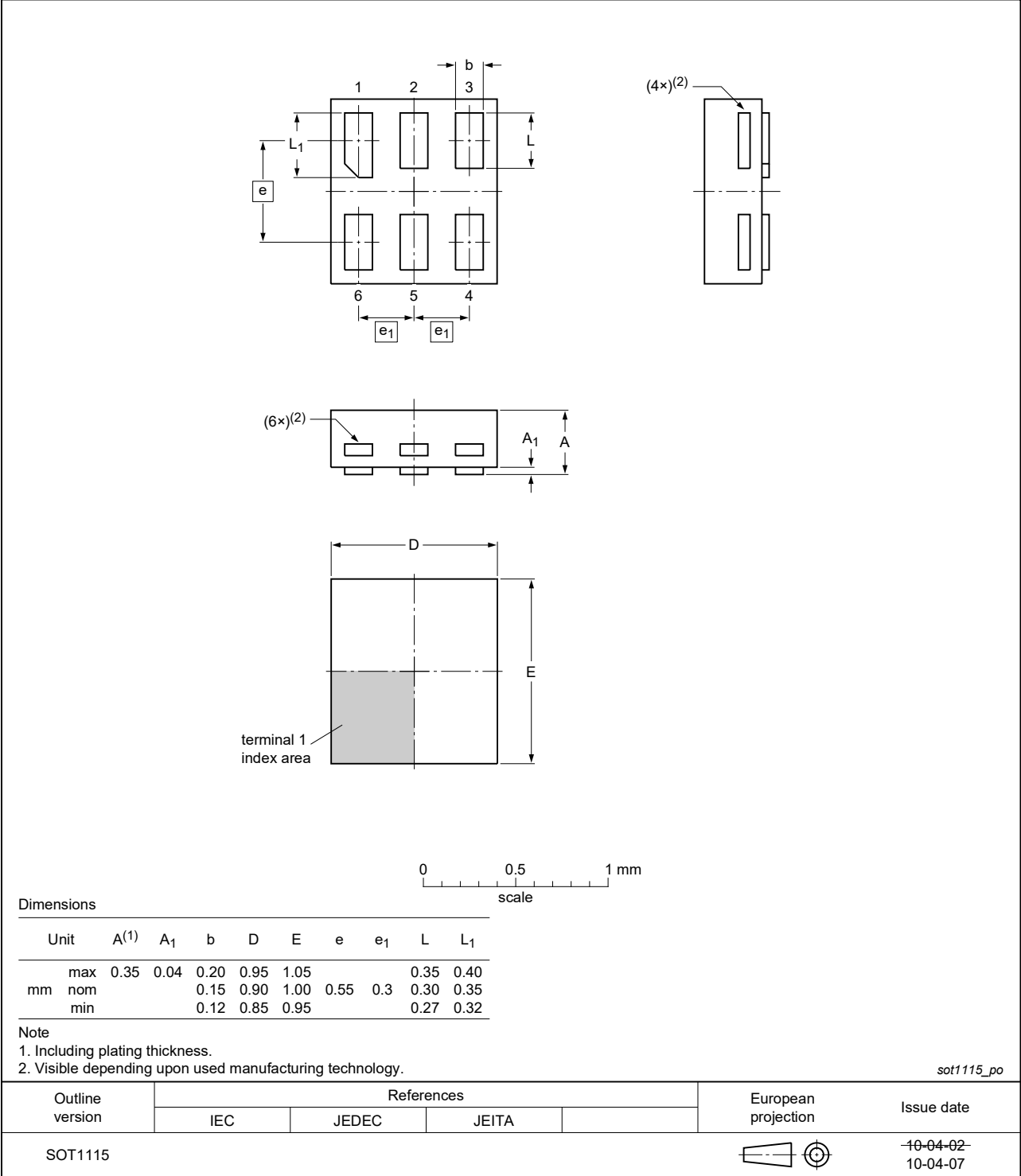


Fig. 22. Package outline SOT1115 (XSON6)

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

SOT1202



Fig. 23. Package outline SOT1202 (XSON6)

X2SON6: plastic thermal enhanced extremely thin small outline package; no leads;
6 terminals; body 1.0 x 0.8 x 0.32 mm

SOT1255-2

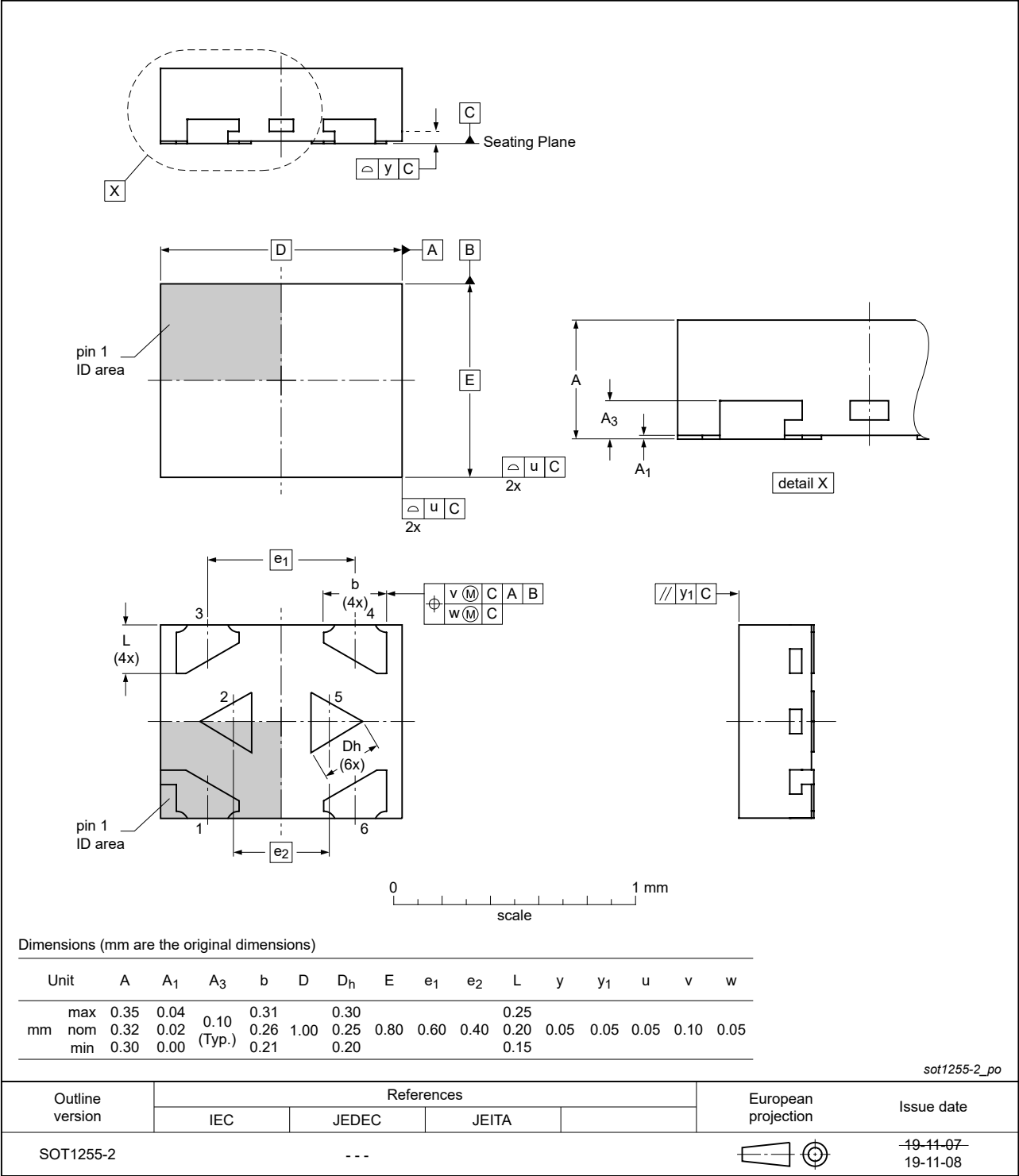


Fig. 24. Package outline SOT1255-2 (X2SON6)

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.4	20211007	Product data sheet	-	74AXP1G58 v.3
Modifications:	- The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. - Legal texts have been adapted to the new company name where appropriate. - SOT1255 (X2SON6) package changed to SOT1255-2 (X2SON6) package. Table 6: Derating values for P_{tot} total power dissipation updated.			
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	-	-

15. Legal information

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".
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at <https://www.nexperia.com>.

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