

74AXP1G125

Low-power buffer/line driver; 3-state

Rev. 1 — 16 January 2014

Product data sheet

1. General description

The 74AXP1G125 is a single buffer/line driver with 3-state output.

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_{CC} range from 0.7 V to 2.75 V. It 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; $C_{PD} = 2.5$ 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
74AXP1G125GM	−40 °C to +85 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886
74AXP1G125GN	−40 °C to +85 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115
74AXP1G125GS	−40 °C to +85 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202
74AXP1G125GX	−40 °C to +85 °C	X2SON5	X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 × 0.8 × 0.35 mm	SOT1226

4. Marking

Table 2. Marking

Type number	Marking code ^[1]
74AXP1G125GM	rM
74AXP1G125GN	rM
74AXP1G125GS	rM
74AXP1G125GX	rM

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

5. Functional diagram

Fig 1. Logic symbol

Fig 2. IEC logic symbol

Fig 3. Logic diagram

6. Pinning information

6.1 Pinning

74AXP1G125

Transparent top view

aaa-010416

74AXP1G125

Transparent top view

aaa-010417

Fig 4. Pin configuration SOT886, SOT1115 and SOT1202 (XSON6)

Fig 5. Pin configuration SOT1226 (X2SON5)

6.2 Pin description

Table 3. Pin description

Symbol	Pin		Description
	X2SON5	XSON6	
$\overline{\text{OE}}$	1	1	output enable input
A	2	2	data input
GND	3	3	ground (0 V)
Y	4	4	data output
n.c.	-	5	not connected
V _{CC}	5	6	supply voltage

7. Functional description

Table 4. Function table^[1]

Input		Output	
$\overline{\text{OE}}$	A	Y	
L	L	L	
L	H	H	
H	X	Z	

[1] H = HIGH voltage level;
 L = LOW voltage level;
 X = Don't care;
 Z = high-impedance OFF-state.

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_{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	-	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 6. 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
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{CC} = 0.7$ 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 °C to +85 °C				Unit
			Min	Typ 25 °C	Max 25 °C	Max 85 °C	
V _{IH}	HIGH-level input voltage	V _{CC} = 0.75 V to 0.85 V	0.75V _{CC}	-	-	-	V
		V _{CC} = 1.1 V to 1.95 V	0.65V _{CC}	-	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.6	-	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 0.75 V to 0.85 V	-	-	0.25V _{CC}	0.25V _{CC}	V
		V _{CC} = 1.1 V to 1.95 V	-	-	0.35V _{CC}	0.35V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	0.7	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	-	-	-	V
		I _O = -2 mA; V _{CC} = 1.1 V	0.825	-	-	-	V
		I _O = -3 mA; V _{CC} = 1.4 V	1.05	-	-	-	V
		I _O = -4.5 mA; V _{CC} = 1.65 V	1.2	-	-	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	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 _{OZ}	OFF-state output current	V _I = V _{IH} or V _{IL} ; V _O = 0 V to 2.75 V	[1]	-	0.02	±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] All 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 13](#).

Symbol	Parameter	Conditions	T _{amb} = 25 °C			T _{amb} = –40 °C to +85 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	
t _{pd}	propagation delay	A to Y; see Figure 6 [2][5]						
		V _{CC} = 0.75 V to 0.85 V	3	11	38	2	132	ns
		V _{CC} = 1.1 V to 1.3 V	2.0	4.3	7.0	1.8	7.3	ns
		V _{CC} = 1.4 V to 1.6 V	1.6	3.2	4.7	1.5	5.0	ns
		V _{CC} = 1.65 V to 1.95 V	1.4	2.7	3.8	1.2	4.1	ns
		V _{CC} = 2.3 V to 2.7 V	1.1	2.1	2.8	1.0	3.1	ns
t _{en}	enable time	OE to Y; see Figure 7 [3][5]						
		V _{CC} = 0.75 V to 0.85 V	5	15	45	4	160	ns
		V _{CC} = 1.1 V to 1.3 V	2.7	5.6	8.7	2.5	9.1	ns
		V _{CC} = 1.4 V to 1.6 V	2.1	4.1	5.8	1.9	6.2	ns
		V _{CC} = 1.65 V to 1.95 V	1.7	3.4	4.8	1.5	5.2	ns
		V _{CC} = 2.3 V to 2.7 V	1.4	2.6	3.6	1.2	3.9	ns
t _{dis}	disable time	OE to Y; see Figure 7 [4]						
		V _{CC} = 0.75 V to 0.85 V	4	14	42	1	152	ns
		V _{CC} = 1.1 V to 1.3 V	2.9	5.9	9.5	2.7	9.9	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	4.4	6.6	2.0	7.1	ns
		V _{CC} = 1.65 V to 1.95 V	2.4	4.5	6.6	2.1	7.1	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	3.3	4.7	1.5	5.1	ns
t _t	transition time	V _{CC} = 2.7 V; see Figure 6 [6]	-	-	-	1.0	-	ns
C _I	input capacitance	V _I = 0 V or V _{CC} ; V _{CC} = 0 V to 2.75 V	-	0.5	-	-	-	pF
C _O	output capacitance	V _O = 0 V; V _{CC} = 0 V	-	1	-	-	-	pF

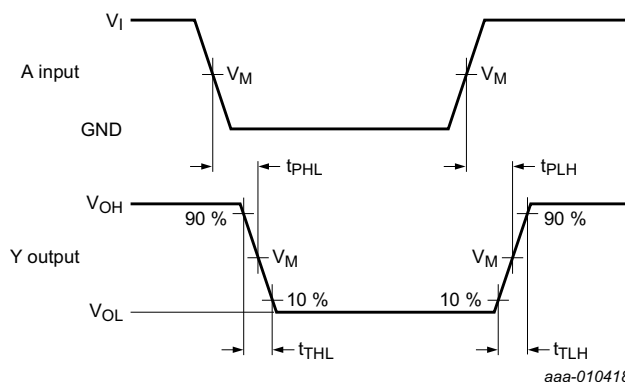
Table 8. Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for test circuit, see [Figure 13](#).

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 MHz; V _I = 0 V to V _{CC} [7]						
		V _{CC} = 0.75 V to 0.85 V	-	2.4	-	-	-	pF
		V _{CC} = 1.1 V to 1.3 V	-	2.5	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V	-	2.6	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	2.6	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	3.0	-	-	-	pF

- [1] All typical values are measured at nominal V_{CC}.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL}.
- [3] t_{en} is the same as t_{PZH} and t_{PZL}.
- [4] t_{dis} is the same as t_{PHZ} and t_{PLZ}.
- [5] For additional propagation delays and enable times values at different load capacitances see [Figure 8](#) to [Figure 12](#).
- [6] t_t is the same as t_{THL} and t_{TLH}.
- [7] 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.

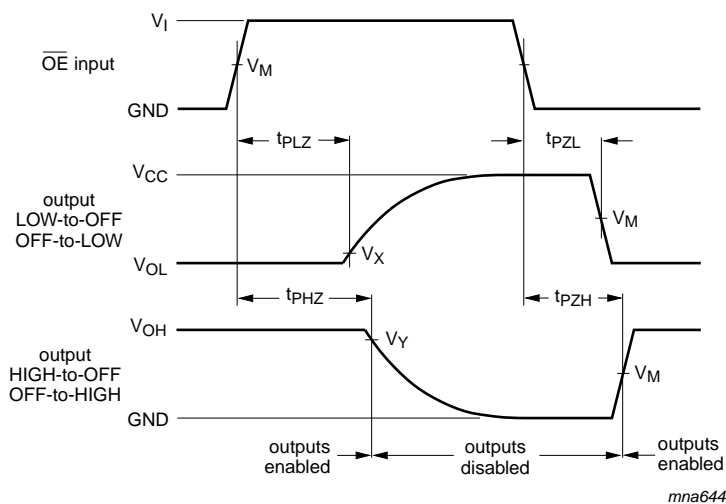
12. Waveforms



Measurement points are given in [Table 9](#).

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

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

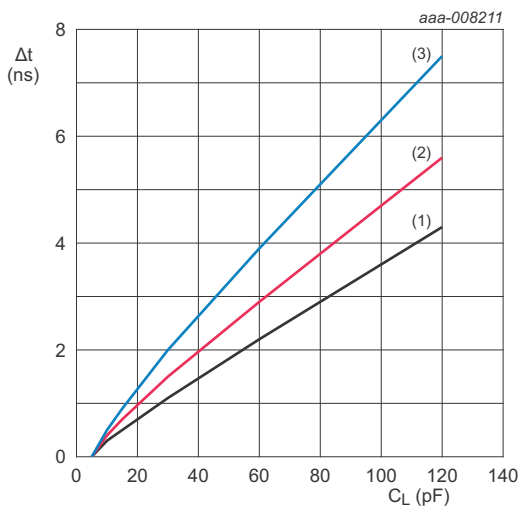


Measurement points are given in [Table 9](#).
Logic levels: V_{OL} and V_{OH} are typical output voltage drops that occur with the output load.

Fig 7. Enable and disable times

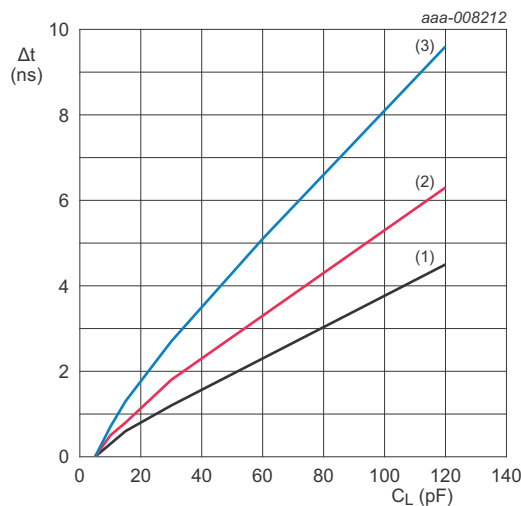
Table 9. Measurement points

Supply voltage	Input			Output		
V_{CC}	V_M	V_I	$t_r = t_f$	V_M	V_X	V_Y
0.75 V to 1.6 V	$0.5V_{CC}$	V_{CC}	≤ 3.0 ns	$0.5V_{CC}$	$V_{OL} + 0.1$ V	$V_{OH} - 0.1$ V
1.65 V to 2.7 V	$0.5V_{CC}$	V_{CC}	≤ 3.0 ns	$0.5V_{CC}$	$V_{OL} + 0.15$ V	$V_{OH} - 0.15$ V



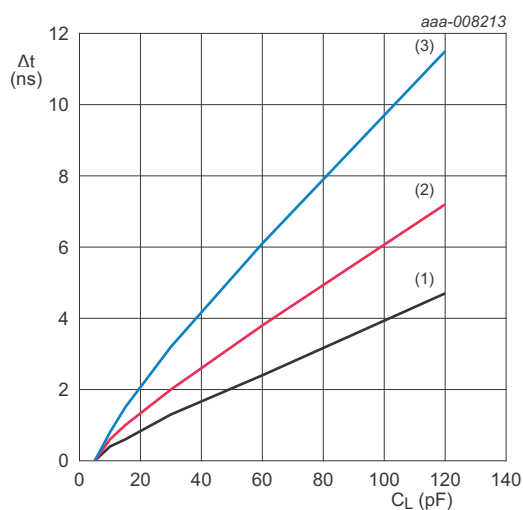
$T_{amb} = -40$ °C to $+85$ °C unless otherwise specified.
(1) Minimum: $V_{CC} = 2.7$ V
(2) Typical: $T_{amb} = 25$ °C; $V_{CC} = 2.5$ V
(3) Maximum: $V_{CC} = 2.3$ V

Fig 8. Additional t_{pd} and t_{en} versus load capacitance



$T_{amb} = -40$ °C to $+85$ °C unless otherwise specified.
(1) Minimum: $V_{CC} = 1.95$ V
(2) Typical: $T_{amb} = 25$ °C; $V_{CC} = 1.8$ V
(3) Maximum: $V_{CC} = 1.65$ V

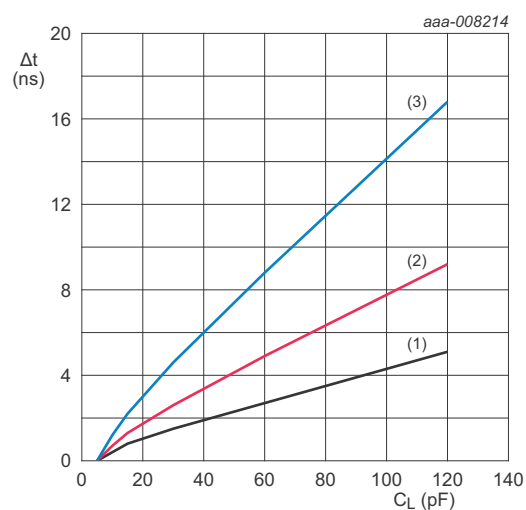
Fig 9. Additional t_{pd} and t_{en} versus load capacitance



$T_{amb} = -40\text{ }^{\circ}\text{C}$ 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: $V_{CC} = 1.4\text{ V}$

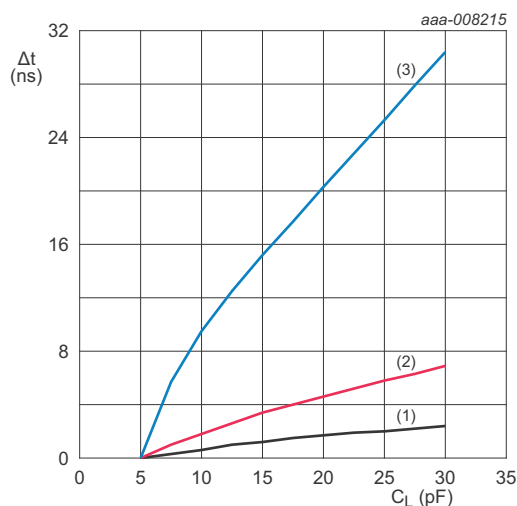
Fig 10. Additional t_{pd} and t_{en} versus load capacitance



$T_{amb} = -40\text{ }^{\circ}\text{C}$ 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: $V_{CC} = 1.1\text{ V}$

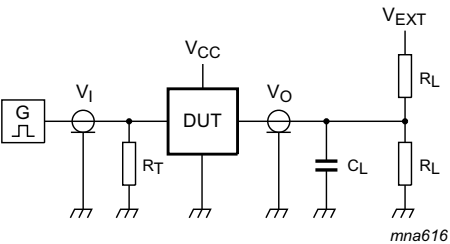
Fig 11. Additional t_{pd} and t_{en} versus load capacitance



$T_{amb} = -40\text{ }^{\circ}\text{C}$ 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 12. Additional t_{pd} and t_{en} versus load capacitance



Test data is given in [Table 10](#).
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 13. Test circuit for measuring switching times

Table 10. 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 k Ω	0 V	0 V	$2 \times V_{CC}$

13. Package outline

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

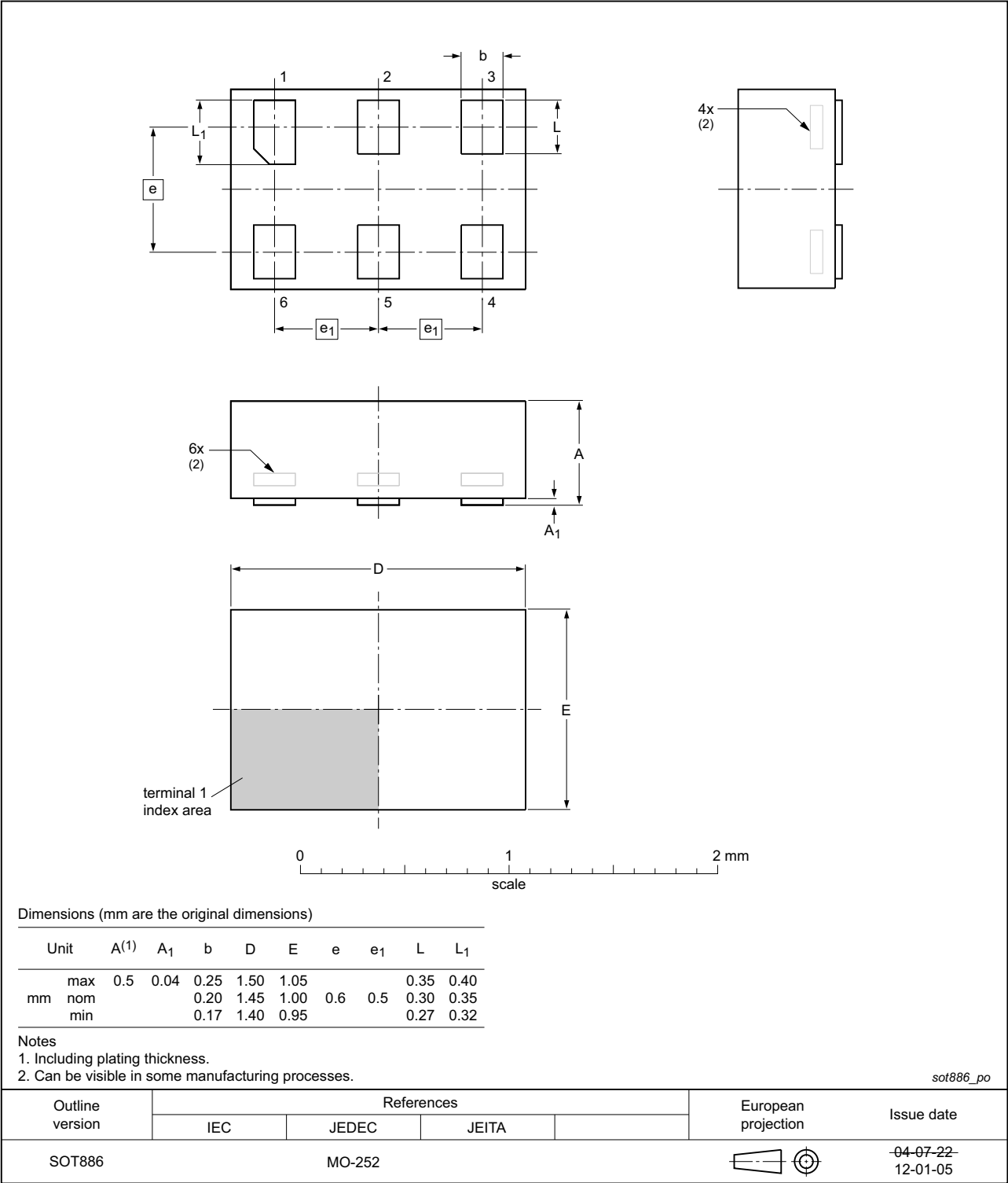


Fig 14. Package outline SOT886 (XSON6)

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

SOT1115

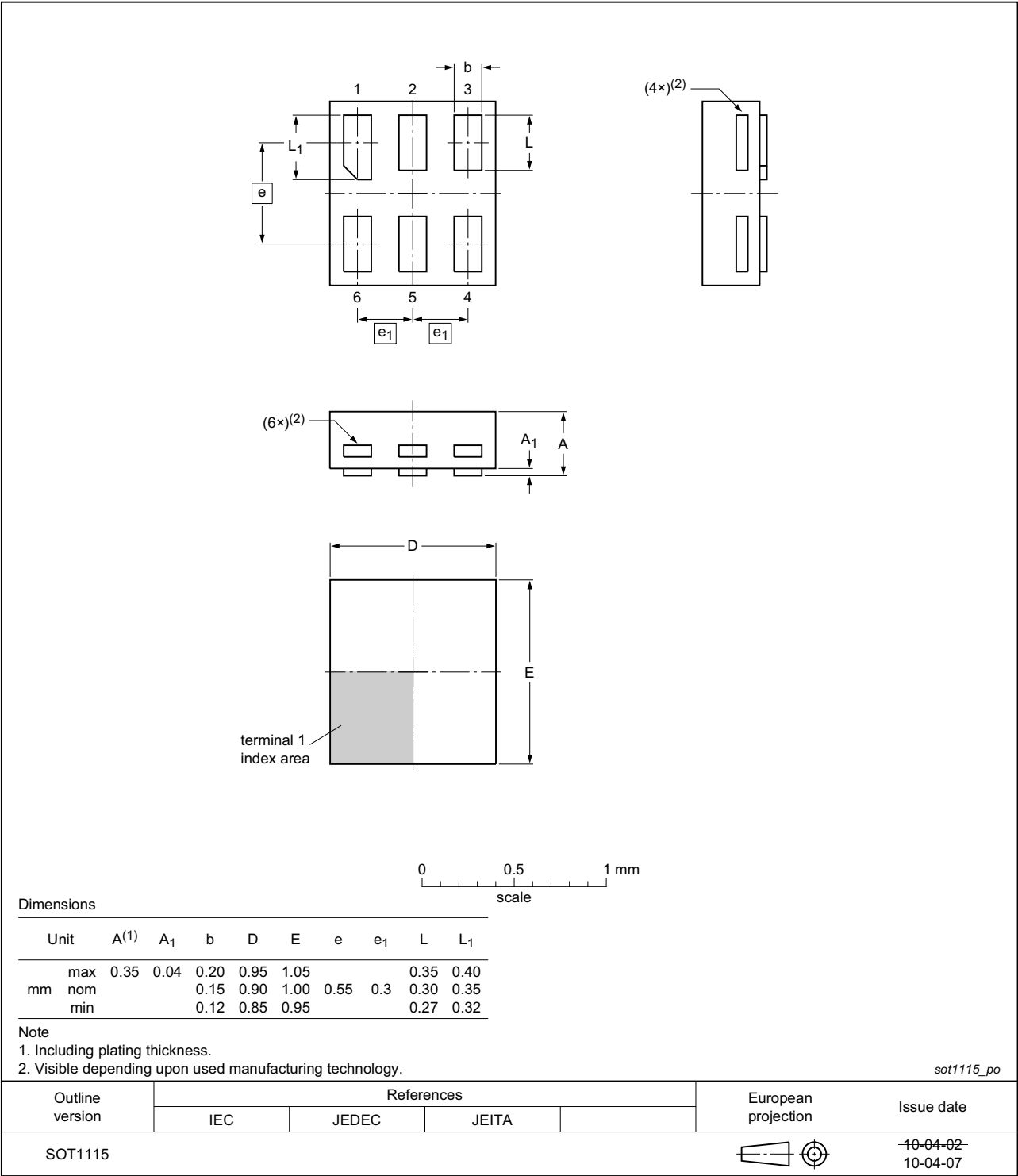


Fig 15. Package outline SOT1115 (XSON6)

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

SOT1202

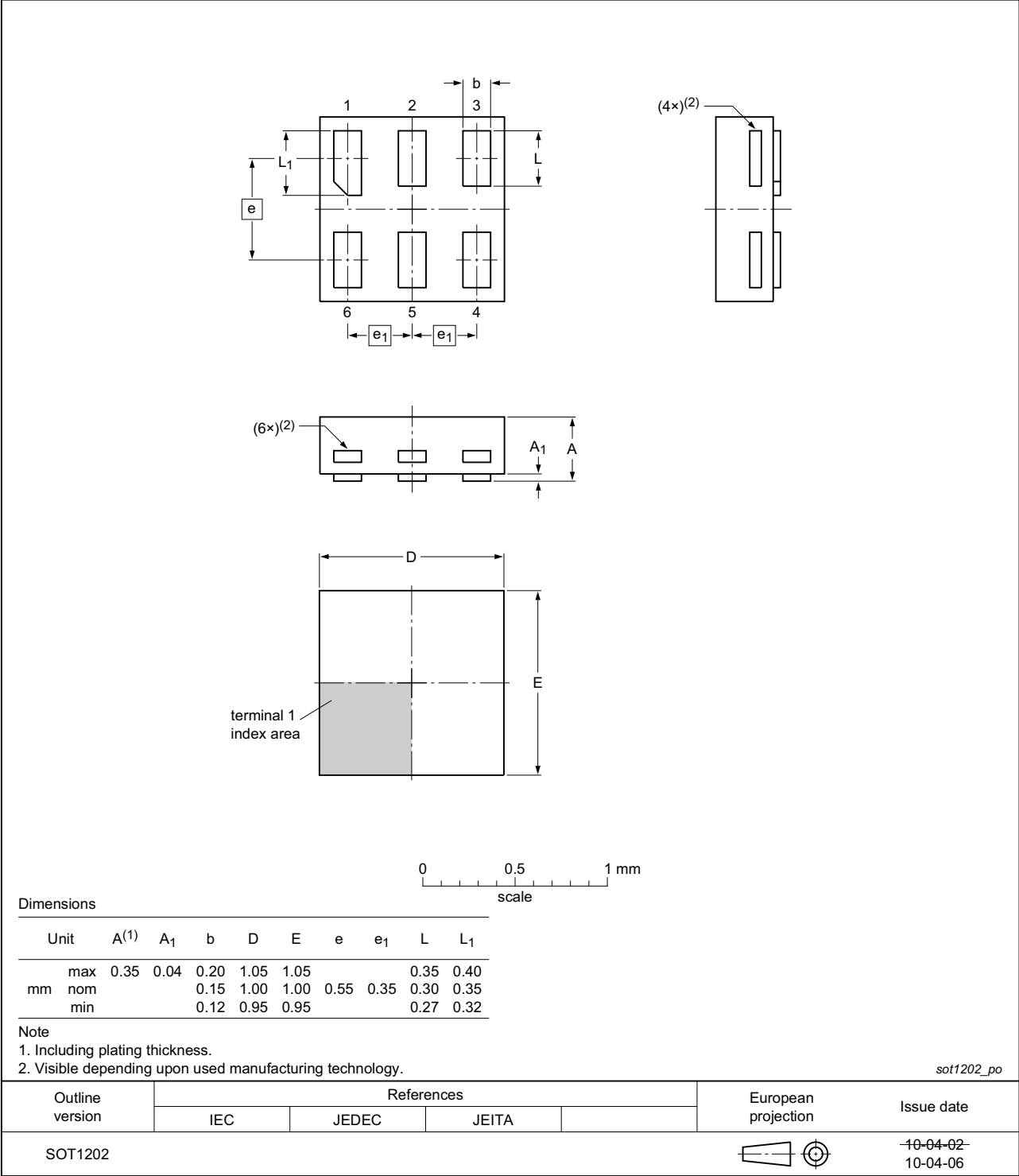


Fig 16. Package outline SOT1202 (XSON6)

X2SON5: plastic thermal enhanced extremely thin small outline package; no leads;
5 terminals; body 0.8 x 0.8 x 0.35 mm

SOT1226

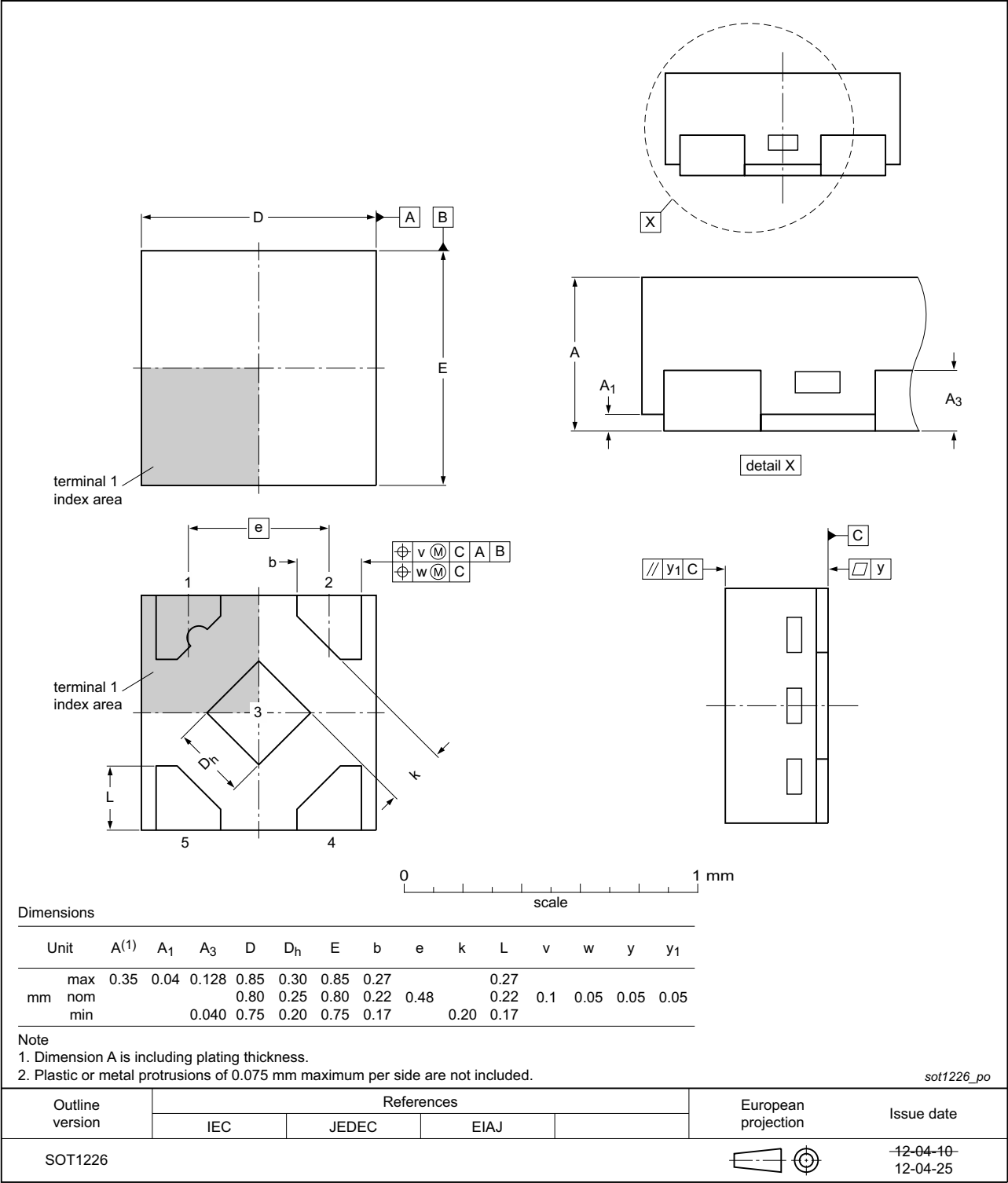


Fig 17. Package outline SOT1226 (X2SON5)

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
74AXP1G125 v.1	20140116	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.

[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 URL <http://www.nxp.com>.

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18. 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
8	Limiting values	4
9	Recommended operating conditions	4
10	Static characteristics	5
11	Dynamic characteristics	6
12	Waveforms	7
13	Package outline	11
14	Abbreviations	15
15	Revision history	15
16	Legal information	16
16.1	Data sheet status	16
16.2	Definitions	16
16.3	Disclaimers	16
16.4	Trademarks	17
17	Contact information	17
18	Contents	18

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