

74AXP1G86

Low-power 2-input EXCLUSIVE-OR gate

Rev. 1 — 13 November 2015

Product data sheet

1. General description

The 74AXP1G86 is a single 2-input EXCLUSIVE-OR 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_{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; $C_{PD} = 2.6$ 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 |
| 74AXP1G86GM | –40 °C to +85 °C | XSON6 | plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm | SOT886 |
| 74AXP1G86GN | –40 °C to +85 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm | SOT1115 |
| 74AXP1G86GS | –40 °C to +85 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm | SOT1202 |
| 74AXP1G86GX | –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

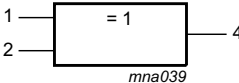
| Type number | Marking code ^[1] |
|-------------|-----------------------------|
| 74AXP1G86GM | rH |
| 74AXP1G86GN | rH |
| 74AXP1G86GS | rH |
| 74AXP1G86GX | rH |

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

5. Functional diagram



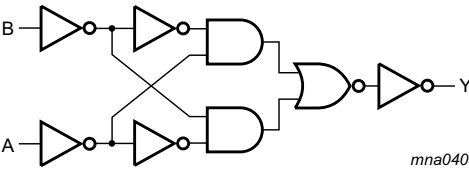
The logic symbol for the 74AXP1G86 is a rectangular box with two inputs labeled A and B on the left side. Input A is at pin 1 and input B is at pin 2. The output Y is on the right side at pin 4. The symbol is labeled mna038.



The IEC logic symbol for the 74AXP1G86 is a rectangular box with two inputs labeled 1 and 2 on the left side. The output is on the right side at pin 4. The box contains the text "= 1". The symbol is labeled mna039.

Fig 1. Logic symbol

Fig 2. IEC logic symbol



The logic diagram for the 74AXP1G86 shows two inputs A and B. Each input is connected to two inverters. The outputs of the inverters are connected to two 2-input AND gates. The outputs of the AND gates are connected to a 2-input OR gate. The output of the OR gate is connected to a single inverter, which produces the final output Y. The diagram is labeled mna040.

Fig 3. Logic diagram

6. Pinning information

6.1 Pinning

74AXP1G86

Transparent top view

aaa-016943

Fig 4. Pin configuration SOT886

74AXP1G86

Transparent top view

aaa-016944

Fig 5. Pin configuration SOT1115 and SOT1202

74AXP1G86

Transparent top view

aaa-016945

Fig 6. Pin configuration SOT1226 (X2SON5)

6.2 Pin description

Table 3. Pin description

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

7. Functional description

Table 4. Function table^[1]

| Input | | Output |
|-------|---|--------|
| A | B | Y |
| L | L | L |
| L | H | H |
| H | L | H |
| H | H | 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_{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 | 0.75 × V _{CC} | - | - | - | V | |
| | | V _{CC} = 1.1 V to 1.95 V | 0.65 × V _{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 | - | - | 0.25 × V _{CC} | 0.25 × V _{CC} | V | |
| | | V _{CC} = 1.1 V to 1.95 V | - | - | 0.35 × V _{CC} | 0.35 × V _{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 _{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.

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, B to Y; see Figure 7 ^{[2][3]} | | | | | | |
| | | V _{CC} = 0.75 V to 0.85 V | 3 | 15 | 72 | 2 | 164 | ns |
| | | V _{CC} = 1.1 V to 1.3 V | 1.7 | 5.2 | 10.8 | 1.7 | 11.3 | ns |
| | | V _{CC} = 1.4 V to 1.6 V | 1.3 | 3.7 | 6.8 | 1.3 | 7.4 | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 1.1 | 3.0 | 5.4 | 1.1 | 6.0 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.9 | 2.3 | 3.8 | 0.8 | 4.3 | ns |
| t _t | transition time | V _{CC} = 2.7 V; see Figure 7 ^[4] | - | - | - | 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 | - | 1.0 | - | - | - | pF |
| C _{PD} | power dissipation capacitance | f _i = 1 MHz; V _I = 0 V to V _{CC} ^[5] | | | | | | |
| | | 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 | - | 2.6 | - | - | - | pF |
| | | V _{CC} = 1.65 V to 1.95 V | - | 2.7 | - | - | - | 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] For additional propagation delay values at different load capacitances, see [Figure 8](#) to [Figure 12](#).

[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.

12. Waveforms

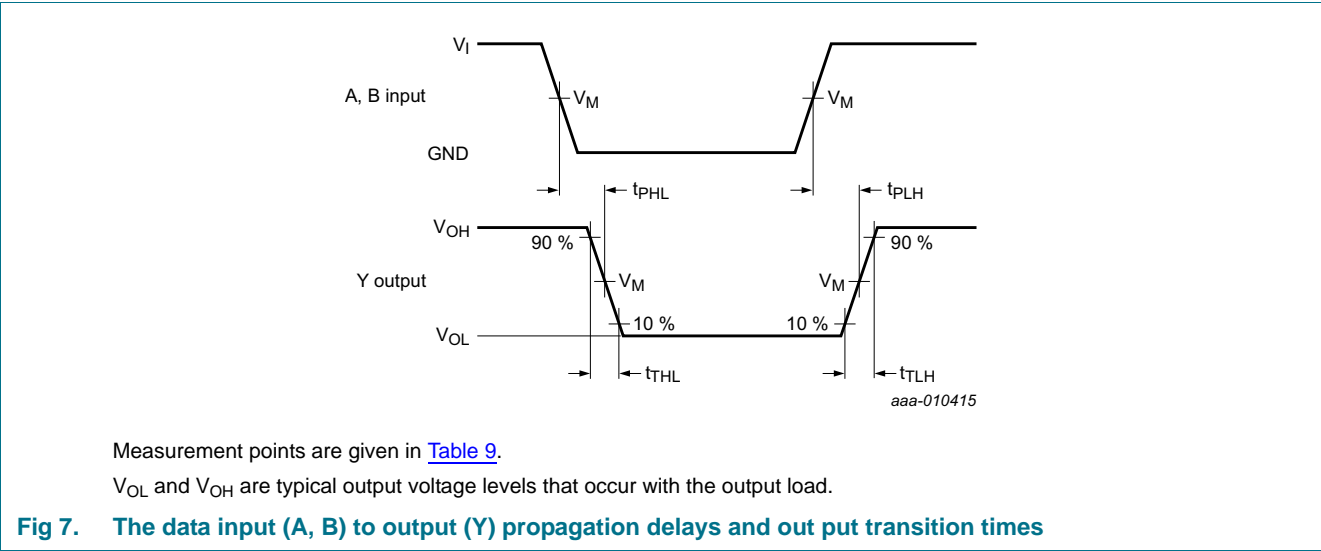
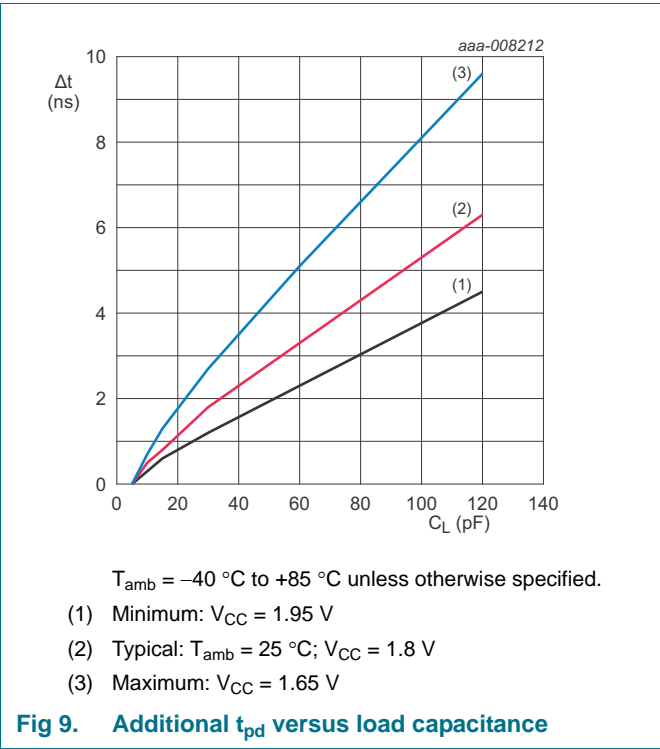
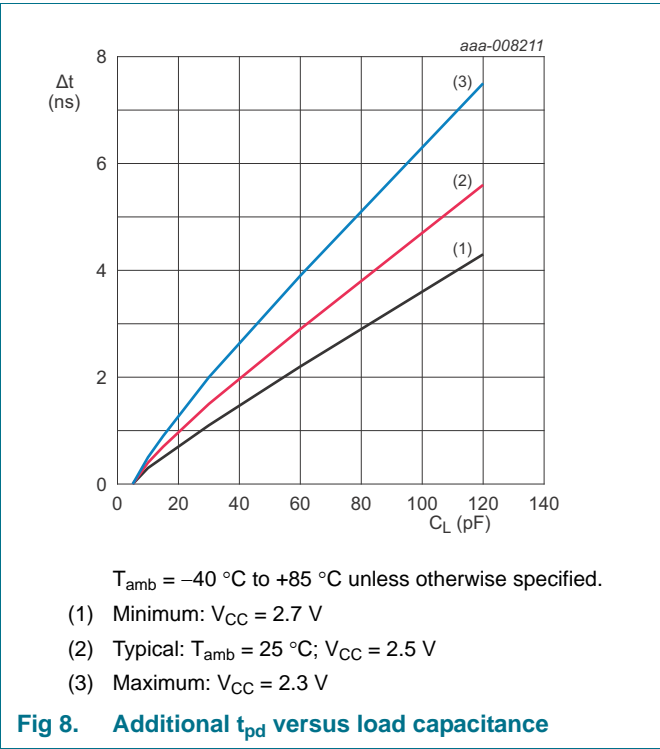
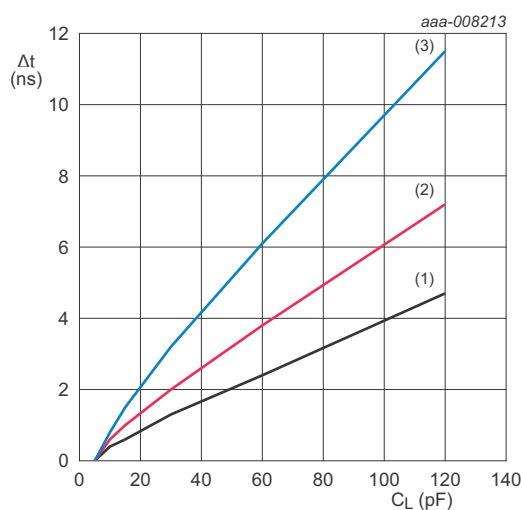


Table 9. Measurement points

| Supply voltage | Input | | | Output |
|-----------------|-----------------------|-----------------|---------------------------------|-----------------------|
| V _{CC} | V _M | V _I | t _r = t _f | V _M |
| 0.75 V to 2.7 V | 0.5 × V _{CC} | V _{CC} | ≤ 3.0 ns | 0.5 × V _{CC} |

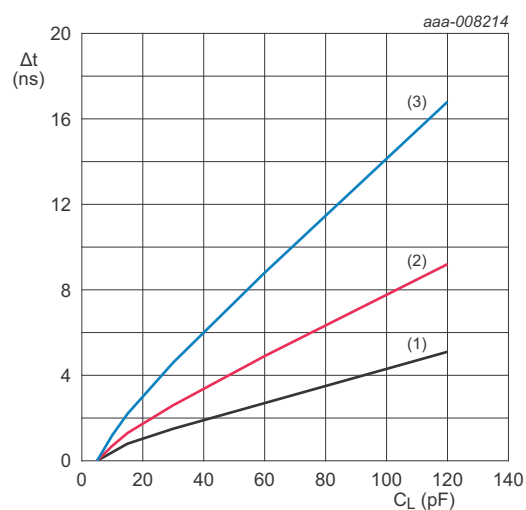




$T_{amb} = -40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ unless otherwise specified.

- (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: $V_{CC} = 1.4\text{ V}$

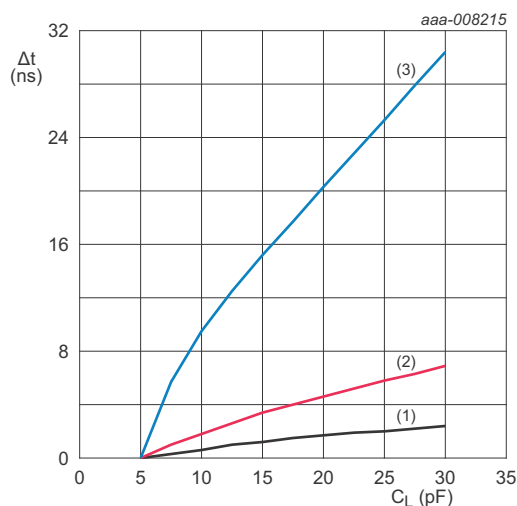
Fig 10. Additional t_{pd} versus load capacitance



$T_{amb} = -40\text{ }^{\circ}\text{C}$ 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} 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} 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

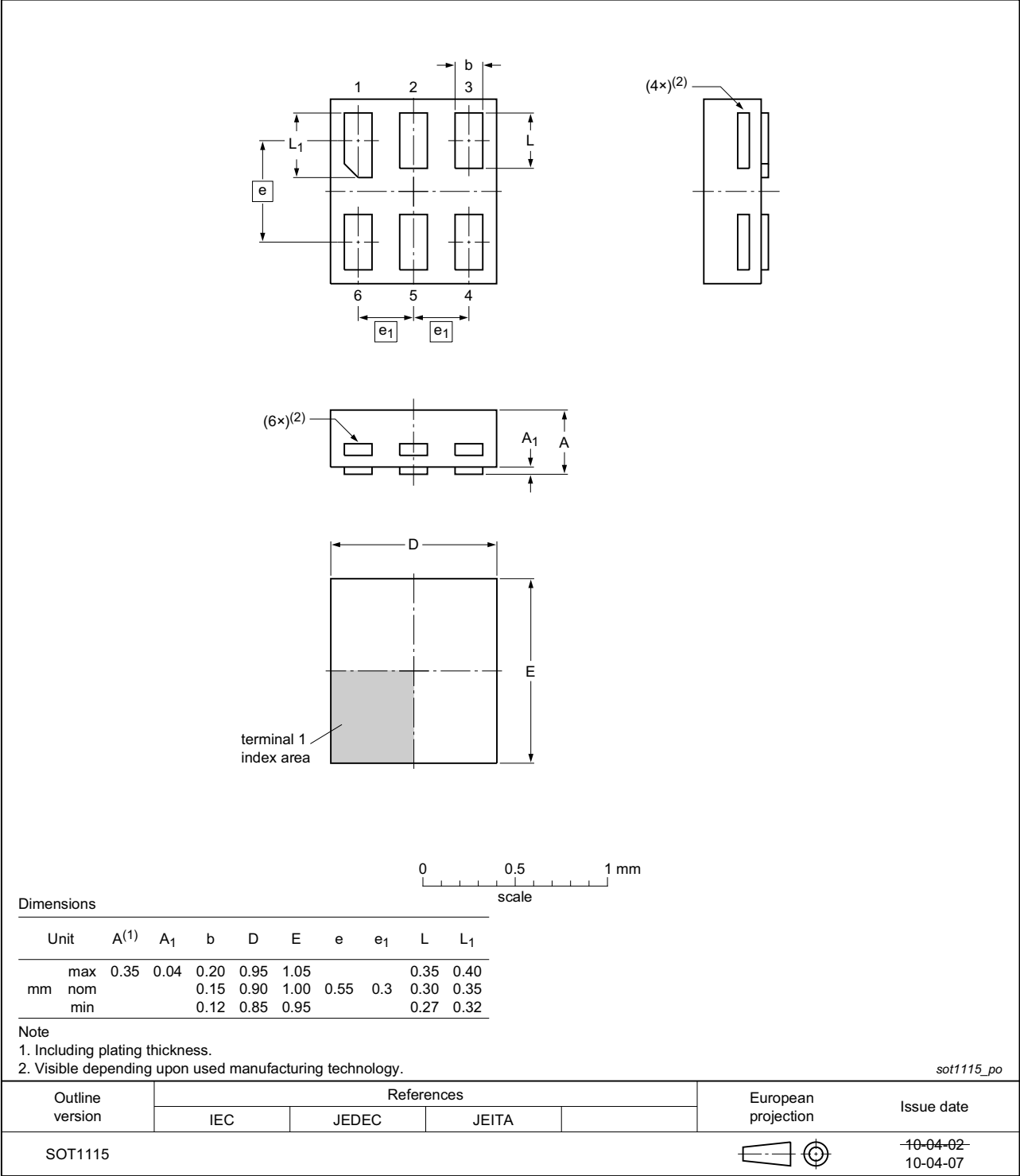


Fig 15. Package outline SOT1115 (XSON6)

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

SOT1202

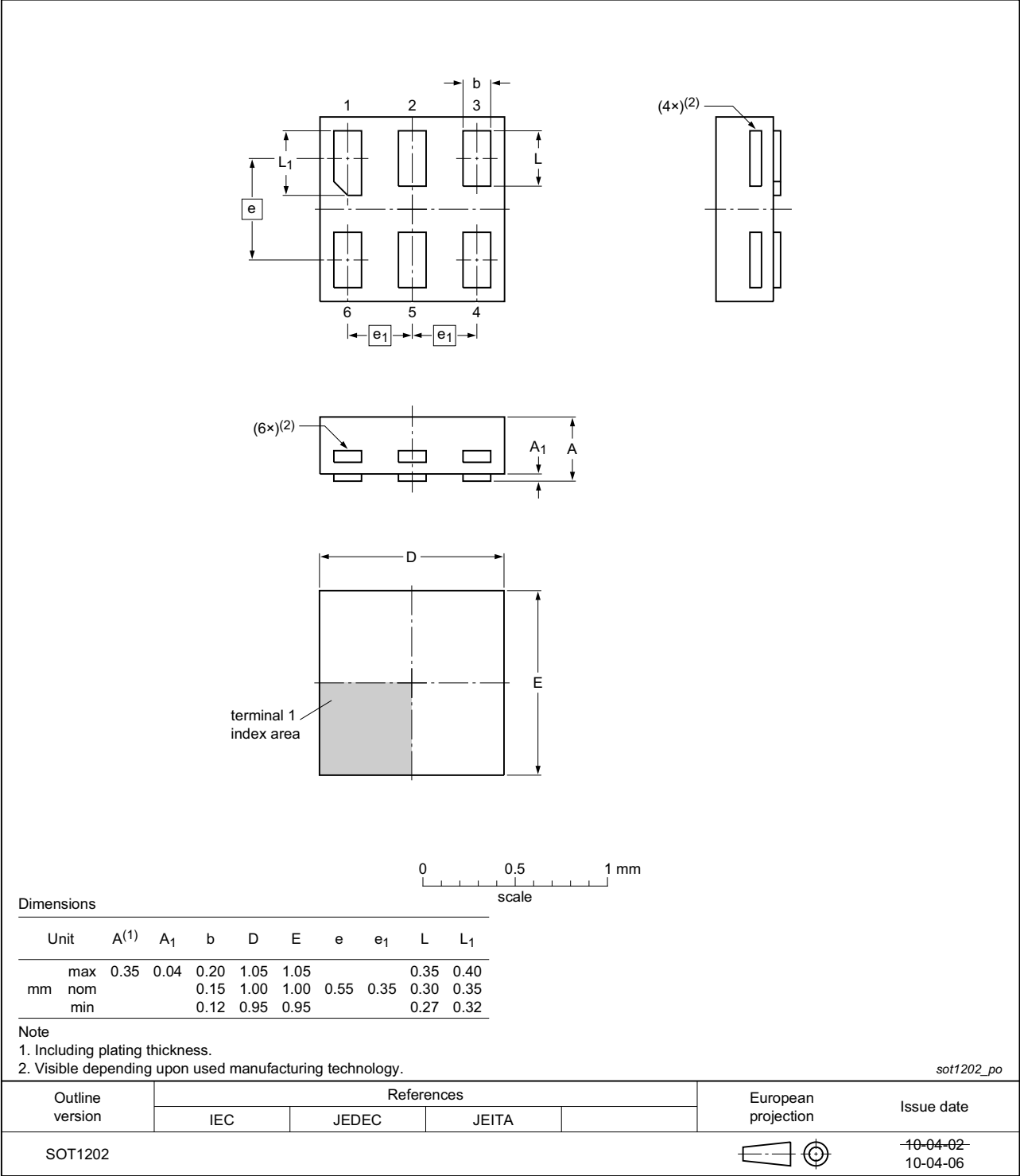


Fig 16. Package outline SOT1202 (XSON6)

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

SOT1226

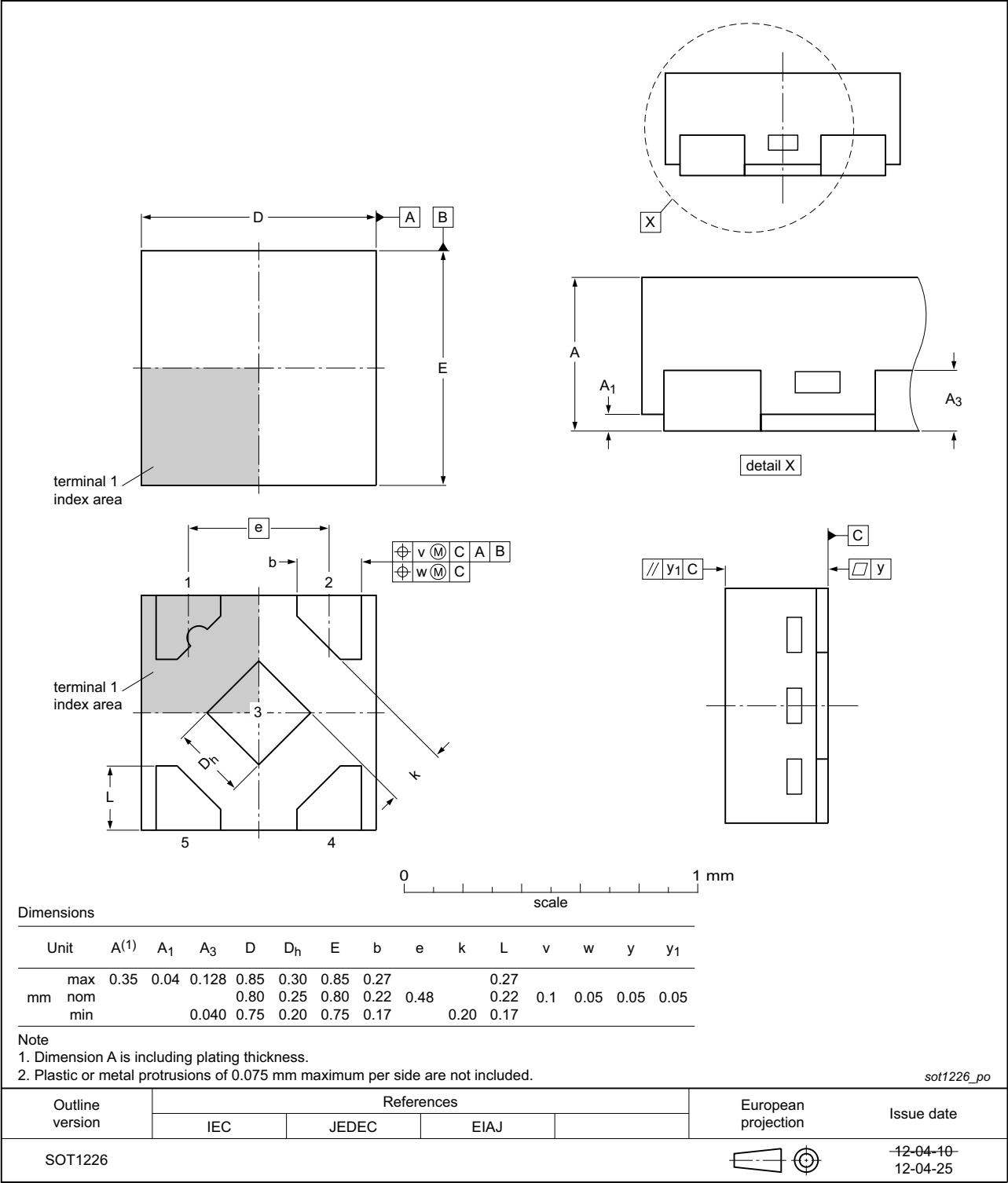


Fig 17. Package outline SOT1226 (X2SON5)

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 |
|---------------|--------------|--------------------|---------------|------------|
| 74AXP1G86 v.1 | 20151113 | 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. |
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[2] The term 'short data sheet' is explained in section "Definitions".

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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 | 10 |
| 14 | Abbreviations | 14 |
| 15 | Revision history | 14 |
| 16 | Legal information | 15 |
| 16.1 | Data sheet status | 15 |
| 16.2 | Definitions | 15 |
| 16.3 | Disclaimers | 15 |
| 16.4 | Trademarks | 16 |
| 17 | Contact information | 16 |
| 18 | Contents | 17 |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- 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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