Low-power inverter Rev. 1 — 25 August 2014

Product data sheet

General description 1.

The 74AXP1G04 is a single inverting buffer.

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.

Features and benefits 2.

- 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; $C_{PD} = 2.3 \text{ pF}$ at $V_{CC} = 1.2 \text{ V}$ (typical)
- Low static power consumption; I_{CC} = 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_{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 | | | |
| 74AXP1G04GM | –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 | | | |
| 74AXP1G04GN | –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 | | | |
| 74AXP1G04GS | –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 | | | |
| 74AXP1G04GX | −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 | | | |

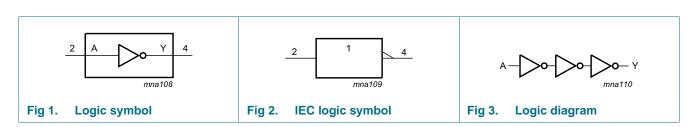
4. Marking

Table 2. Marking

| Type number | Marking code ^[1] |
|-------------|-----------------------------|
| 74AXP1G04GM | rC |
| 74AXP1G04GN | rC |
| 74AXP1G04GS | rC |
| 74AXP1G04GX | rC |

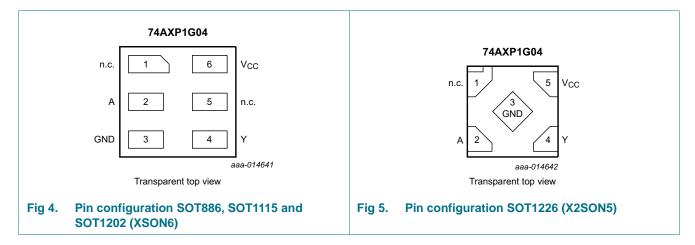
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

| Symbol | Pin | Pin Description | |
|-----------------|--------|-----------------|----------------|
| | X2SON5 | XSON6 | |
| n.c. | 1 | 1 | not connected |
| A | 2 | 2 | data input |
| GND | 3 | 3 | ground (0 V) |
| Υ | 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 |
|-------|--------|
| A | Υ |
| 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 _{CC} | supply voltage | | -0.5 | +3.3 | V |
| I _{IK} | input clamping current | V _I < 0 V | -50 | - | mA |
| VI | input voltage | [1] | -0.5 | +3.3 | V |
| I _{OK} | output clamping current | V _O < 0 V | -50 | - | mA |
| Vo | output voltage | [1] | -0.5 | +3.3 | V |
| I _O | output current | $V_O = 0 \text{ V to } V_{CC}$ | - | ±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 | $T_{amb} = -40 ^{\circ}\text{C} \text{ to } +85 ^{\circ}\text{C}$ | - | 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 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 _{CC} | V |
| | | Power-down mode; V _{CC} = 0 V | 0 | 2.75 | V |
| T _{amb} | ambient temperature | | -40 | +85 | °C |
| Δt/ΔV | 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 | | $T_{amb} = -40 ^{\circ}\text{C} \text{ to } +85 ^{\circ}\text{C}$ | | | | Unit |
|------------------|--|--|-----------------------------------|---|-----------|---------------------|---------------------|------|
| | | | | Min | Typ 25 °C | Max 25 °C | Max 85 °C | |
| V_{IH} | HIGH-level input | V _{CC} = 0.75 V to 0.85 V | | 0.75V _{CC} | - | - | - | V |
| | voltage | V _{CC} = 1.1 V to 1.95 V | V _{CC} = 1.1 V to 1.95 V | | - | - | - | V |
| | | V _{CC} = 2.3 V to 2.7 V | | 1.6 | - | - | - | V |
| V_{IL} | LOW-level input | V _{CC} = 0.75 V to 0.85 V | | - | - | 0.25V _{CC} | 0.25V _{CC} | V |
| | voltage | 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 | $I_O = -20 \mu A; V_{CC} = 0.7 V$ | | - | 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 | $I_O = 100 \mu A; V_{CC} = 0.75 V$ | | - | - | 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 |
| l _l | input leakage current | V _I = 0 V to 2.75 V; V _{CC} = 0 V to 2.75 V | <u>[1]</u> | - | 0.001 | ±0.1 | ±0.5 | μА |
| I _{OFF} | power-off leakage current | $V_1 \text{ or } V_0 = 0 \text{ V to } 2.75 \text{ V};$ $V_{CC} = 0 \text{ V}$ | [1] | - | 0.01 | ±0.1 | ±0.5 | μΑ |
| ΔI_{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 _{CC} | 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 _{CC} | 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 |

^[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 12.

| Symbol | Parameter | Conditions | T, | $T_{amb} = 25 ^{\circ}C$ $T_{amb} =$ | | T _{amb} = -4 | 0 °C to +85 °C | Unit |
|-----------------|-----------------------|--|-----|---------------------------------------|-----|-----------------------|----------------|------|
| | | | Min | Typ[1] | Max | Min | Max | |
| t _{pd} | propagation | A to Y; see Figure 6 | 1 | | | | | |
| | delay | V _{CC} = 0.75 V to 0.85 V | 3 | 11 | 33 | 2 | 100 | ns |
| | | V _{CC} = 1.1 V to 1.3 V | 1.8 | 4.3 | 7.0 | 1.7 | 7.3 | ns |
| | | V _{CC} = 1.4 V to 1.6 V | 1.5 | 3.1 | 4.7 | 1.3 | 5.1 | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 1.2 | 2.6 | 3.8 | 1.1 | 4.1 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.0 | 2.8 | 0.9 | 3.1 | ns |
| t _t | transition time | V _{CC} = 2.7 V; see <u>Figure 6</u> | 1 - | - | - | 1.0 | - | ns |
| Cı | input capacitance | V _I = 0 V or V _{CC} ; V _{CC} = 0 V to 2.75 V | - | 0.5 | - | - | - | pF |
| Co | output capacitance | V _O = 0 V; V _{CC} = 0 V | - | 1.0 | - | - | - | pF |
| C _{PD} | power dissipation | $f_i = 1 \text{ MHz}; V_I = 0 \text{ V to } V_{CC}$ | 1 | | | | | |
| | capacitance | V _{CC} = 0.75 V to 0.85 V | - | 2.3 | - | - | - | pF |
| | | V _{CC} = 1.1 V to 1.3 V | - | 2.3 | - | - | - | pF |
| | | V _{CC} = 1.4 V to 1.6 V | - | 2.4 | - | - | - | pF |
| | | V _{CC} = 1.65 V to 1.95 V | - | 2.4 | - | - | - | pF |
| | | V _{CC} = 2.3 V to 2.7 V | - | 2.7 | - | - | - | рF |

- [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 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;

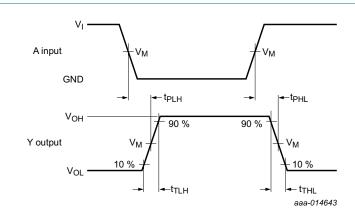
f_o = output frequency in MHz;

C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching.

12. Waveforms



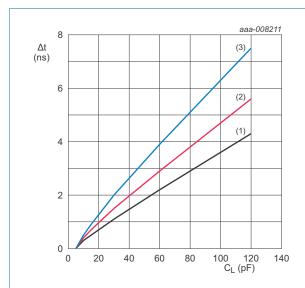
Measurement points are given in Table 9.

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

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

Table 9. Measurement points

| Supply voltage | Input | Output | | |
|-----------------|--------------------|-----------------|-------------|--------------------|
| V _{CC} | V _M | VI | $t_r = t_f$ | V _M |
| 0.75 V to 2.7 V | 0.5V _{CC} | V _{CC} | ≤ 3.0 ns | 0.5V _{CC} |



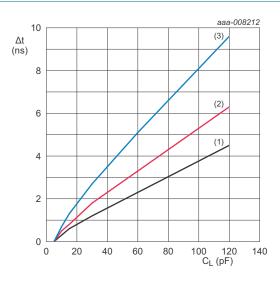
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

(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_{pd} versus load capacitance



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

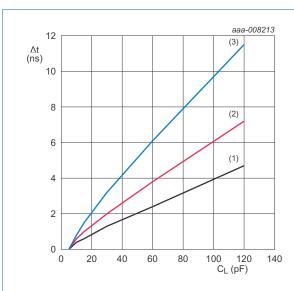
(1) Minimum: $V_{CC} = 1.95 \text{ V}$

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

(3) Maximum: $V_{CC} = 1.65 \text{ V}$

Fig 8. Additional t_{pd} versus load capacitance

74AXP1G04



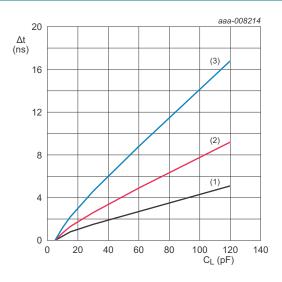
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

(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 t_{pd} versus load capacitance



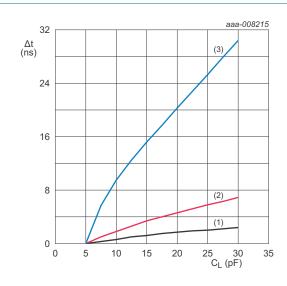
 $T_{amb} = -40 \, ^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$ unless otherwise specified.

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

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

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

Fig 10. Additional tpd versus load capacitance



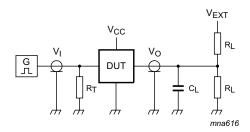
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

(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_{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_0 of the pulse generator.

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

Fig 12. 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 _F | | t_{PZL} , t_{PLZ} | |
| 0.75 V to 2.7 V | 5 pF | 10 kΩ | 0 V | 0 V | $2 \times V_{CC}$ | |

13. Package outline

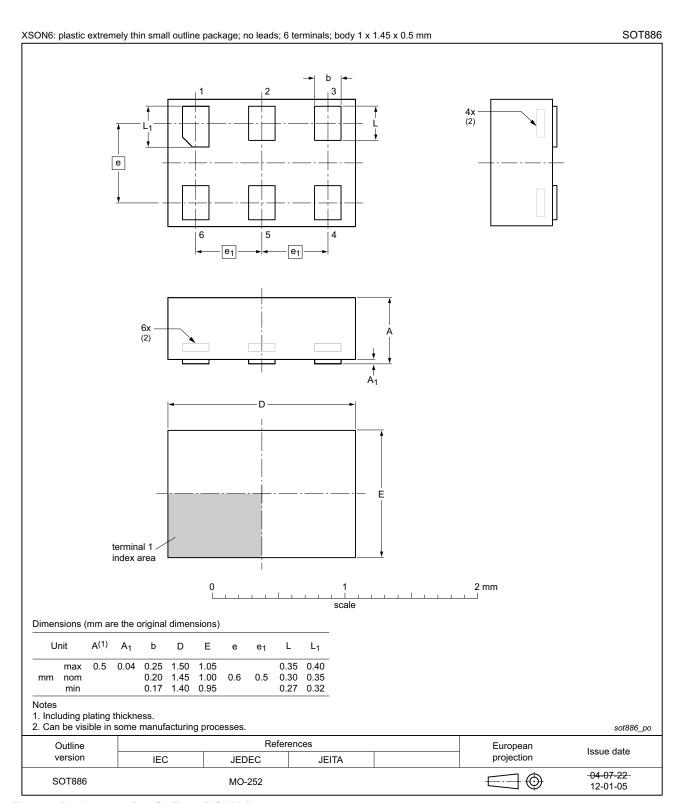


Fig 13. Package outline SOT886 (XSON6)

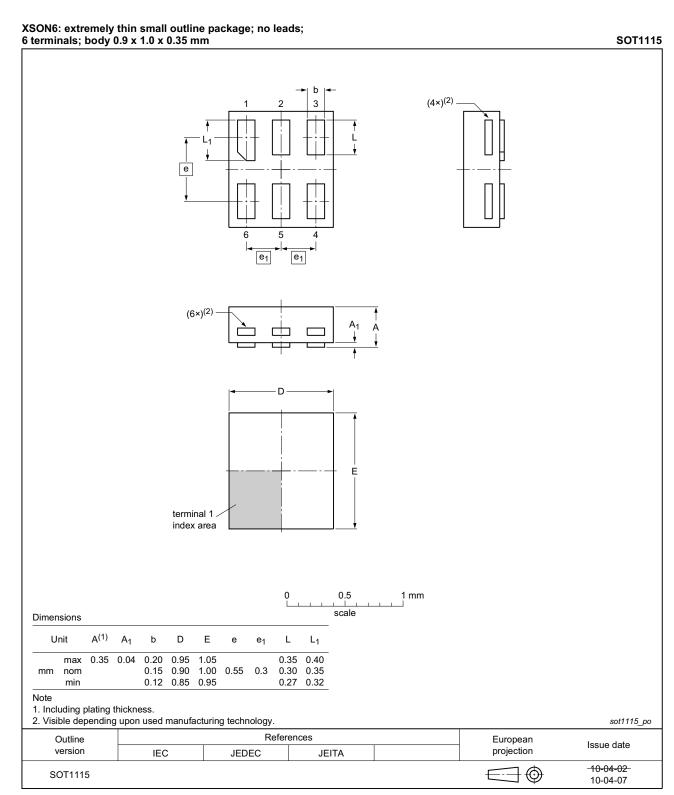


Fig 14. Package outline SOT1115 (XSON6)

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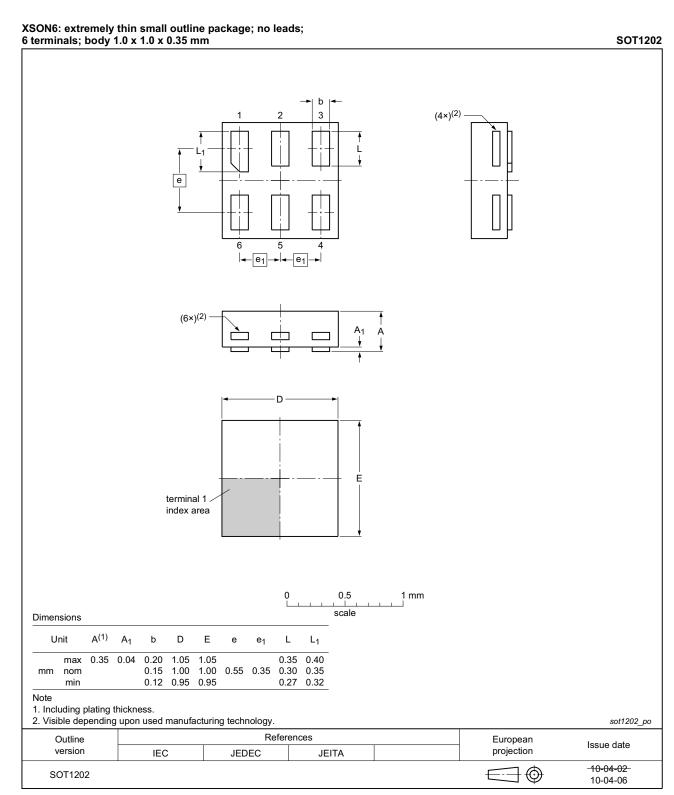


Fig 15. Package outline SOT1202 (XSON6)

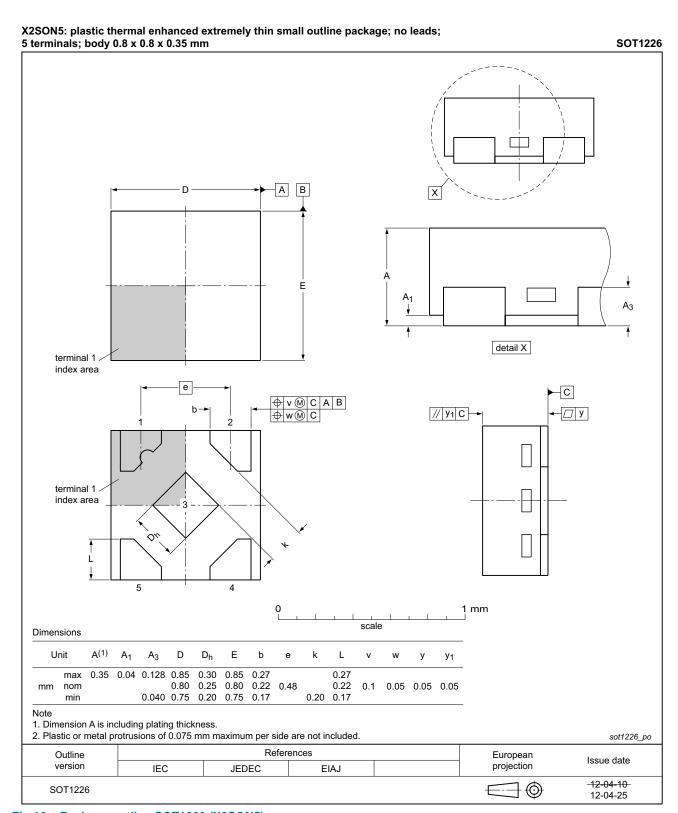


Fig 16. Package outline SOT1226 (X2SON5)

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14. Abbreviations

Table 11. Abbreviations

| Acronym | Description |
|---------|-------------------------|
| CDM | Charged Device Model |
| DUT | Device Under Test |
| ESD | ElectroStatic Discharge |
| НВМ | Human Body Model |

15. Revision history

Table 12. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|---------------|--------------|--------------------|---------------|------------|
| 74AXP1G04 v.1 | 20140825 | Product data sheet | - | - |

16. Legal information

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| Document status[1][2] | Product status[3] | Definition |
|--------------------------------|-------------------|---|
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Nexperia 74AXP1G04

Low-power inverter

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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