74AXP2G07

Low-power dual buffer with open-drain output

Rev. 3 — 18 February 2022

Product data sheet

1. General description

The 74AXP2G07 is a dual non-inverting buffer with open-drain outputs.

Schmitt-trigger action at the 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 = 0.7 pF (typical)
- Low dynamic power consumption; C_{PD} = 1.0 pF at V_{CC} = 1.2 V (typical)
- Low static power consumption; I_{CC} = 0.6 μA (85 °C maximum)
- · High noise immunity
- 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
- 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 2000 V
 - CDM JESD22-C101E exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C



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3. Ordering information

Table 1. Ordering information

| Type number | Package | Package | | | | | | |
|-------------|-------------------|---------|--|-----------|--|--|--|--|
| | Temperature range | Name | Description | Version | | | | |
| 74AXP2G07GM | -40 °C to +85 °C | XSON6 | plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm | SOT886 | | | | |
| 74AXP2G07GN | -40 °C to +85 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm | SOT1115 | | | | |
| 74AXP2G07GS | -40 °C to +85 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm | SOT1202 | | | | |
| 74AXP2G07GX | -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 | | | | |

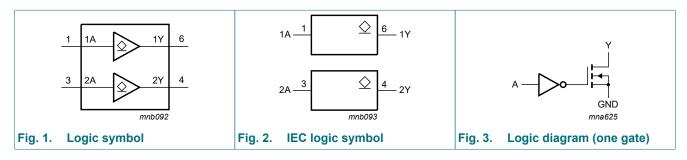
4. Marking

Table 2. Marking codes

| Type number | Marking code[1] |
|-------------|-----------------|
| 74AXP2G07GM | r7 |
| 74AXP2G07GN | r7 |
| 74AXP2G07GS | r7 |
| 74AXP2G07GX | r7 |

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

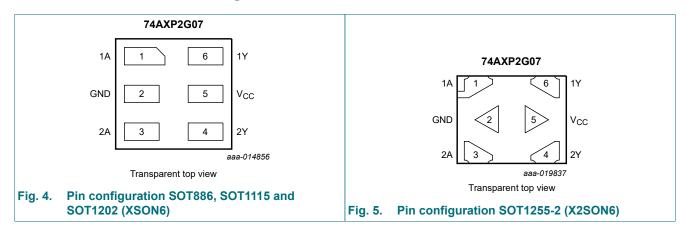
5. Functional diagram



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6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

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

7. Functional description

Table 4. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ Z = high-impedance \ OFF \ state.$

| Input | Output |
|-------|--------|
| nA | nY |
| L | L |
| Н | Z |

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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 |
| lok | output clamping current | V _O < 0 V | | -50 | - | mA |
| Vo | output voltage | | [1] | -0.5 | +3.3 | V |
| Io | output current | $V_O = 0 V \text{ to } V_{CC}$ | | - | ±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.

For SOT1115 (XSON6) package: Ptot 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: Ptot derates linearly with 3.3 mW/K above 75 °C.

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 |

^[2] For SOT886 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

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10. Static characteristics

Table 7. Static characteristics

At recommended operating conditions, unless otherwise specified; voltages are referenced to GND (ground = 0 V).

| Symbol F | Parameter | Conditions | Т | _{amb} = 25 ° | С | T _{amb} = -40 ° | 0.65V _{CC} - V 1.6 - V - 0.25V _{CC} V | | |
|-------------------|---|---|---------------------|-----------------------|---------------------|--------------------------|---|----|--|
| | | | Min | Тур | Max | Min | Max | | |
| V _{IH} | HIGH-level input | V _{CC} = 0.75 V to 0.85 V | 0.75V _{CC} | - | - | 0.75V _{CC} | - | V | |
| | voltage | V _{CC} = 1.1 V to 1.95 V | 0.65V _{CC} | - | - | 0.65V _{CC} | - | V | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.6 | - | - | 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 _{OL} | LOW-level output | $I_O = 20 \mu A; V_{CC} = 0.7 V$ | - | 0.01 | - | - | - | V | |
| | voltage | 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 | $V_I = 0 \text{ V to } 2.75 \text{ V};$ [1] $V_{CC} = 0 \text{ V to } 2.75 \text{ V}$ | - | 0.001 | ±0.1 | - | ±0.5 | μΑ | |
| l _{OZ} | OFF-state output current | $V_I = V_{IL}$; $V_O = 0 \text{ V to } 2.75 \text{ V } [1]$ | - | 0.02 | ±0.1 | - | ±0.5 | μΑ | |
| I _{OFF} | power-off leakage current | $V_1 \text{ or } V_0 = 0 \text{ V to } 2.75 \text{ V};$ [1] $V_{CC} = 0 \text{ V}$ | - | 0.01 | ±0.1 | - | ±0.5 | μΑ | |
| Δl _{OFF} | additional power- off leakage current | V_1 or $V_0 = 0$ V or 2.75 V; [1] $V_{CC} = 0$ V to 0.1 V | - | 0.02 | ±0.1 | - | ±0.5 | μA | |
| I _{CC} | supply current | $V_I = 0 \text{ V or } V_{CC}; I_O = 0 \text{ A}$ [1] | - | 0.01 | 0.3 | - | 0.6 | μΑ | |
| ΔI _{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.

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11. Dynamic characteristics

Table 8. Dynamic characteristics

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

| Symbol | Parameter | neter Conditions T _{amb} = 25 °C | | ,C | T _{amb} = -40 ° | 82 r 7.6 r 5.4 r 5.5 r 3.9 r - r 5 - F - F - F - F - F - F - F - F - F - | Unit | |
|-----------------|-----------------------|--|-----|--------|--------------------------|--|------|----|
| | | | Min | Typ[1] | Max | Min | Max | |
| t _{pd} | propagation delay | nA to nY; see <u>Fig. 6</u> [2] [3] | | | | | | |
| | | V _{CC} = 0.75 V to 0.85 V | 3 | 11 | 31 | 2 | 82 | ns |
| | | V _{CC} = 1.1 V to 1.3 V | 2.2 | 4.8 | 7.3 | 2.0 | 7.6 | ns |
| | | V _{CC} = 1.4 V to 1.6 V | 1.8 | 3.6 | 5.1 | 1.6 | 5.4 | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 1.5 | 3.4 | 5.1 | 1.3 | 5.5 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 1.2 | 2.6 | 3.7 | 1.1 | 3.9 | ns |
| t _t | transition time | $V_{CC} = 2.7 \text{ V; see } \frac{\text{Fig. 6}}{}$ [4] | - | - | - | 0.9 | - | 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 |
| Co | output capacitance | V _O = 0 V; V _{CC} = 0 V | | 0.7 | - | - | - | pF |
| C _{PD} | | $f_i = 1 \text{ MHz}; V_I = 0 \text{ V to } V_{CC}$ [5] | | | | | | |
| | capacitance | V _{CC} = 0.75 V to 0.85 V | - | 0.9 | - | - | - | pF |
| | | V _{CC} = 1.1 V to 1.3 V | - | 1.0 | - | - | - | pF |
| | | V _{CC} = 1.4 V to 1.6 V | - | 1.0 | - | - | - | pF |
| | | V _{CC} = 1.65 V to 1.95 V | - | 1.1 | - | - | - | рF |
| | | V _{CC} = 2.3 V to 2.7 V | - | 1.3 | - | - | - | pF |

- All typical values are measured at nominal $\ensuremath{V_{CC}}$.
- For additional propagation delay (t_{PZL}) values at different load capacitances, see Fig. 7 to Fig. 11.
- t_{pd} is the same as t_{PZL} and t_{PLZ} .
- t_t is the same as t_{TZL} . 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;

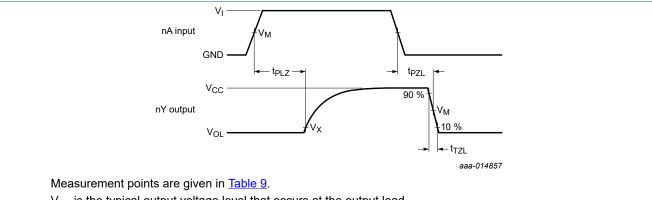
N = number of inputs switching.

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11.1. Waveforms, graphs and test circuit

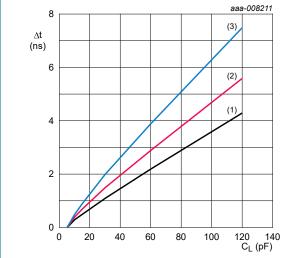


V_{OL} is the typical output voltage level that occurs at the output load.

Fig. 6. The data input (nA) to output (nY) propagation delays and output transition time

Table 9. Measurement points

| Supply voltage | Input | | | Output | | |
|-----------------|--------------------|-----------------|-------------|--------------------|--------------------------|--|
| V _{CC} | V _M | VI | $t_r = t_f$ | V _M | V _X | |
| 0.75 V to 1.6 V | 0.5V _{CC} | V _{CC} | ≤ 3.0 ns | 0.5V _{CC} | V _{OL} + 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 | |



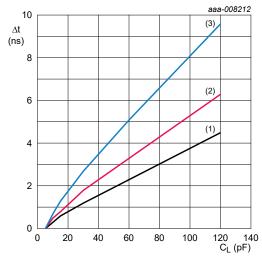
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

(1) Minimum: $V_{CC} = 2.7 \text{ V}$

(2) Typical: T_{amb} = 25 °C; V_{CC} = 2.5 V

(3) Maximum: $V_{CC} = 2.3 \text{ V}$

Fig. 7. Additional t_{PZL} versus load capacitance



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

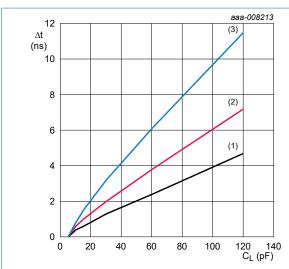
(1) Minimum: $V_{CC} = 1.95 \text{ V}$

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

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

Fig. 8. Additional t_{PZL} versus load capacitance

Low-power dual buffer with open-drain output



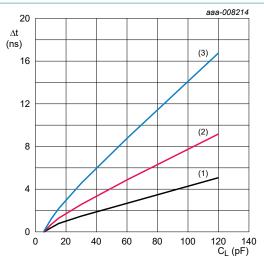
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

(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_{PZL} versus load capacitance



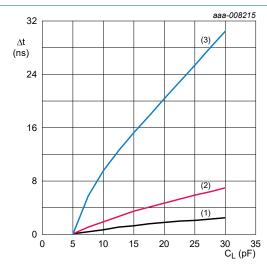
 T_{amb} = -40 °C to +85 °C unless otherwise specified.

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

(2) Typical: T_{amb} = 25 °C; V_{CC} = 1.2 V

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

Fig. 10. Additional t_{PZL} versus load capacitance



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

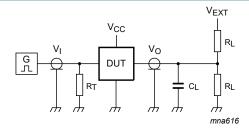
(1) Minimum: $V_{CC} = 0.85 \text{ V}$

(2) Typical: T_{amb} = 25 °C; V_{CC} = 0.8 V

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

Fig. 11. Additional t_{PZL} versus load capacitance

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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_o 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 _{PZL} , t _{PLZ} |
| 0.75 V to 2.7 V | 5 pF | 10 kΩ | 2V _{CC} |

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12. Package outline

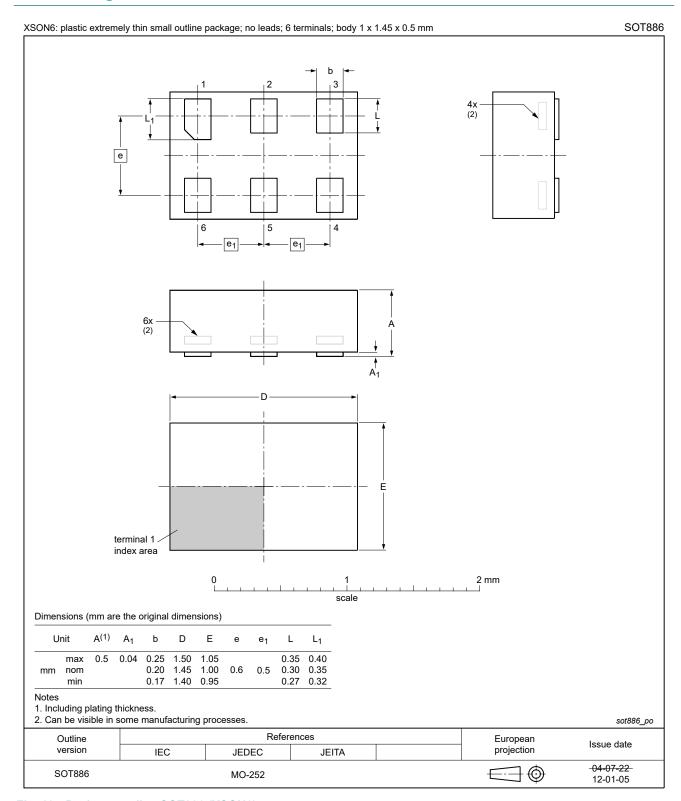


Fig. 13. Package outline SOT886 (XSON6)

Low-power dual buffer with open-drain output

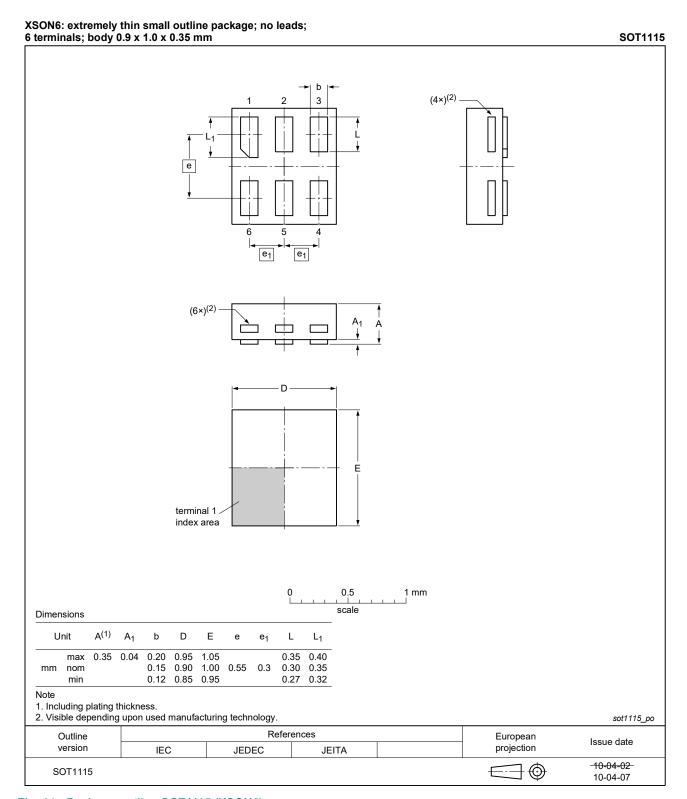


Fig. 14. Package outline SOT1115 (XSON6)

Low-power dual buffer with open-drain output

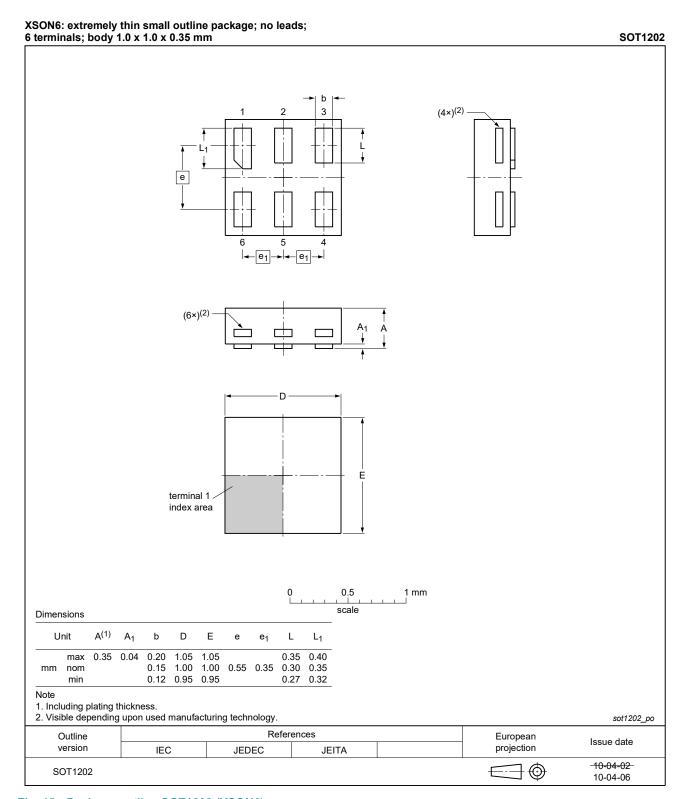


Fig. 15. Package outline SOT1202 (XSON6)

Low-power dual buffer with open-drain output

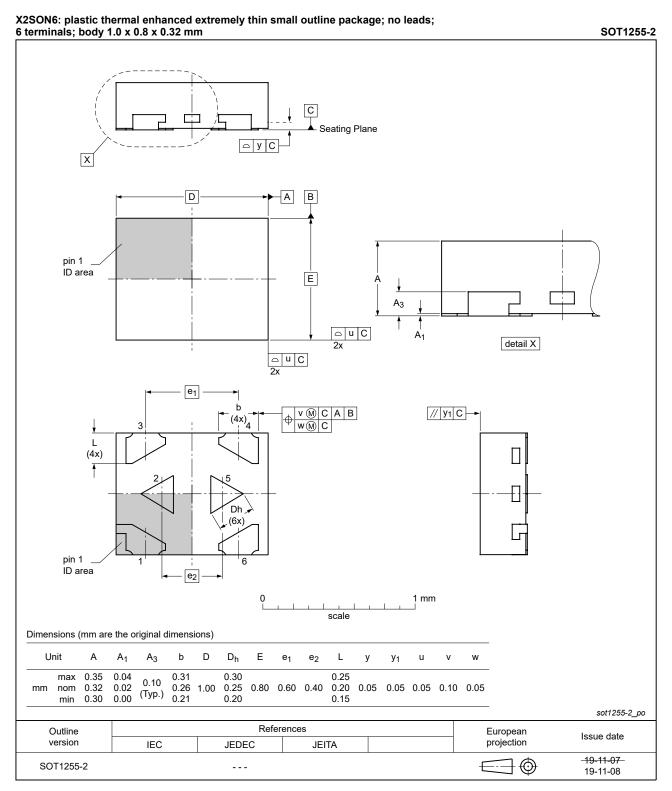


Fig. 16. Package outline SOT1255-2 (X2SON6)

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13. Abbreviations

Table 11. Abbreviations

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

14. Revision history

Table 12. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes | | |
|----------------|------------------------------------|---|---------------|---------------|--|--|
| 74AXP2G07 v.3 | 20220218 | Product data sheet | - | 74AXP2G07 v.2 | | |
| Modifications: | guidelines e Legal texts SOT1255 (| 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 5: Derating values for P_{tot} total power dissipation updated. | | | | |
| 74AXP2G07 v.2 | 20150916 | Product data sheet | - | 74AXP2G07 v.1 | | |
| Modifications: | Added type | Added type number 74AXP2G07GX (SOT1255/X2SON6). | | | | |
| 74AXP2G07 v.1 | 20140924 | Product data sheet | - | - | | |

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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. |

- Please consult the most recently issued document before initiating or completing a design.
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Low-power dual buffer with open-drain output

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