74LVC2G34

Dual buffer gate

Rev. 13 — 22 August 2023

Product data sheet

1. General description

The 74LVC2G34 is a dual buffer. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

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 1.65 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- · High noise immunity
- ±24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power dissipation
- I_{OFF} provides partial Power-down mode operation
- · Direct interface with TTL levels
- Latch-up performance exceeds 250 mA
- Complies with JEDEC standard:
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
 - JESD36 (4.5 V to 5.5 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



Dual buffer gate

3. Ordering information

Table 1. Ordering information

| Type number | Package | | | |
|-------------|-------------------|-----------------|--|----------------|
| | Temperature range | Name | Description | Version |
| 74LVC2G34GW | -40 °C to +125 °C | TSSOP6 | plastic thin shrink small outline package; 6 leads; body width 1.25 mm | SOT363-2 |
| 74LVC2G34GV | -40 °C to +125 °C | SC-74; TSOP6 | plastic surface-mounted package; 6 leads | SOT457 |
| 74LVC2G34GM | -40 °C to +125 °C | XSON6 | plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm | SOT886 |
| 74LVC2G34GN | -40 °C to +125 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm | <u>SOT1115</u> |
| 74LVC2G34GS | -40 °C to +125 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm | SOT1202 |
| 74LVC2G34GX | -40 °C to +125 °C | X2SON6 | plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm | SOT1255-2 |

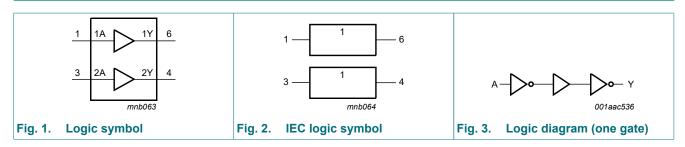
4. Marking

Table 2. Marking

| Type number | Marking code[1] |
|-------------|-----------------|
| 74LVC2G34GW | YA |
| 74LVC2G34GV | Y34 |
| 74LVC2G34GM | YA |
| 74LVC2G34GN | YA |
| 74LVC2G34GS | YA |
| 74LVC2G34GX | YA |

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

5. Functional diagram



Dual buffer gate

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

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

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

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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 | +6.5 | V |
| I _{IK} | input clamping current | V _I < 0 V | | -50 | - | mA |
| VI | input voltage | | [1] | -0.5 | +6.5 | V |
| I _{OK} | output clamping current | $V_O > V_{CC}$ or $V_O < 0 V$ | | - | ±50 | mA |
| Vo | output voltage | Active mode | [1] | -0.5 | V _{CC} + 0.5 | V |
| | | Power-down mode; V _{CC} = 0 V | [1] | -0.5 | +6.5 | V |
| Io | output current | V _O = 0 V to V _{CC} | | - | ±50 | mA |
| I _{CC} | supply current | | | - | 100 | mA |
| I _{GND} | ground current | | | -100 | - | mA |
| P _{tot} | total power dissipation | T _{amb} = -40 °C to +125 °C | [2] | - | 250 | mW |
| T _{stg} | storage temperature | | | -65 | +150 | °C |

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

For SOT457 (SC-74; TSOP6) package: Ptot derates linearly with 4.1 mW/K above 89 °C.

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: Ptot derates linearly with 3.3 mW/K above 75 °C.

9. Recommended operating conditions

Table 6. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|------------------|-------------------------------------|--|------|-----|-----------------|------|
| V _{CC} | supply voltage | | 1.65 | - | 5.5 | V |
| VI | input voltage | | 0 | - | 5.5 | V |
| Vo | output voltage | Active mode | 0 | - | V _{CC} | V |
| | | Power-down mode; V _{CC} = 0 V | 0 | - | 5.5 | V |
| T _{amb} | ambient temperature | | -40 | - | +125 | °C |
| Δt/ΔV | input transition rise and fall rate | V _{CC} = 1.65 V to 2.7 V | - | - | 20 | ns/V |
| | | V _{CC} = 2.7 V to 5.5 V | - | - | 10 | ns/V |

^[2] For SOT363-2 (TSSOP6) package: Ptot derates linearly with 3.7 mW/K above 83 °C.

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10. Static characteristics

Table 7. Static characteristics

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

| Symbol Parameter | | Conditions | -40 °C to +85 °C | | | -40 °C to +125 °C | | Unit |
|------------------|------------------------------|--|-----------------------|---------|---------------------|-----------------------|---------------------|------|
| | | | Min | Typ [1] | Max | Min | Max | |
| V _{IH} | HIGH-level input | V _{CC} = 1.65 V to 1.95 V | 0.65V _{CC} | - | - | 0.65V _{CC} | - | V |
| | voltage | V _{CC} = 2.3 V to 2.7 V | 1.7 | - | - | 1.7 | - | V |
| | | V _{CC} = 2.7 V to 3.6 V | 2.0 | - | - | 2.0 | - | V |
| | | V _{CC} = 4.5 V to 5.5 V | 0.7V _{CC} | - | - | 0.7V _{CC} | - | V |
| V _{IL} | LOW-level input | V _{CC} = 1.65 V to 1.95 V | - | - | 0.35V _{CC} | - | 0.35V _{CC} | V |
| | voltage | V _{CC} = 2.3 V to 2.7 V | - | - | 0.7 | - | 0.7 | V |
| | | V _{CC} = 2.7 V to 3.6 V | - | - | 0.8 | - | 0.8 | V |
| | | V _{CC} = 4.5 V to 5.5 V | - | - | 0.3V _{CC} | - | 0.3V _{CC} | V |
| V _{OH} | HIGH-level | $V_I = V_{IH}$ or V_{IL} | | | | | | |
| | output voltage | I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V | V _{CC} - 0.1 | - | - | V _{CC} - 0.1 | - | V |
| | | I _O = -4 mA; V _{CC} = 1.65 V | 1.2 | - | - | 0.95 | - | V |
| | | I_{O} = -8 mA; V_{CC} = 2.3 V | 1.9 | - | - | 1.7 | - | V |
| | | I _O = -12 mA; V _{CC} = 2.7 V | 2.2 | - | - | 1.9 | - | V |
| | | I _O = -24 mA; V _{CC} = 3.0 V | 2.3 | - | - | 2.0 | - | V |
| | | I _O = -32 mA; V _{CC} = 4.5 V | 3.8 | - | - | 3.4 | - | V |
| V _{OL} | LOW-level output | V _I = V _{IH} or V _{IL} | | | | | | |
| | voltage | I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V | - | - | 0.10 | - | 0.10 | V |
| | | I _O = 4 mA; V _{CC} = 1.65 V | - | - | 0.45 | - | 0.70 | V |
| | | I _O = 8 mA; V _{CC} = 2.3 V | - | - | 0.30 | - | 0.45 | V |
| | | I _O = 12 mA; V _{CC} = 2.7 V | - | - | 0.40 | - | 0.60 | V |
| | | I _O = 24 mA; V _{CC} = 3.0 V | - | - | 0.55 | - | 0.80 | V |
| | | I _O = 32 mA; V _{CC} = 4.5 V | - | - | 0.55 | - | 0.80 | V |
| I _I | input leakage current | V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V | - | ±0.1 | ±1 | - | ±1 | μA |
| I _{OFF} | power-off leakage current | $V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$ | - | ±0.1 | ±2 | - | ±2 | μΑ |
| I _{CC} | supply current | V _I = 5.5 V or GND; I _O = 0 A; V _{CC} = 1.65 V to 5.5 V | - | 0.1 | 4 | - | 4 | μA |
| ΔI _{CC} | additional supply current | per pin; V_{CC} = 2.3 V to 5.5 V; V _I = V_{CC} - 0.6 V; I _O = 0 A | - | 5 | 500 | - | 500 | μA |
| Cı | input capacitance | V_{CC} = 3.3 V; V_I = GND to V_{CC} | - | 2.5 | - | - | - | pF |

^[1] All typical values are measured at V_{CC} = 3.3 V and T_{amb} = 25 °C.

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11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 9.

| Symbol | Parameter | Conditions | -40 | °C to +85 | °C | -40 °C to | +125 °C | Unit |
|-----------------|-------------------------------|---|-----|-----------|-----|-----------|---------|------|
| | | | Min | Typ[1] | Max | Min | Max | |
| t _{pd} | propagation delay | nA to nY; see Fig. 8 [2] | | | | | | |
| | | V _{CC} = 1.65 V to 1.95 V | 1.0 | 3.8 | 8.6 | 1.0 | 10.8 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.5 | 2.4 | 4.4 | 0.5 | 5.5 | ns |
| | | V _{CC} = 2.7 V | 0.5 | 2.5 | 5.0 | 0.5 | 6.3 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.5 | 2.2 | 4.1 | 0.5 | 5.1 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | 0.5 | 1.9 | 3.2 | 0.5 | 4.0 | ns |
| C _{PD} | power dissipation capacitance | $V_{I} = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V } [3]$ | - | 20 | - | - | - | pF |

- Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.
- t_{pd} is the same as t_{PLH} and t_{PHL} . C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$ where:

f_i = input frequency in MHz;

 f_o = output frequency in MHz;

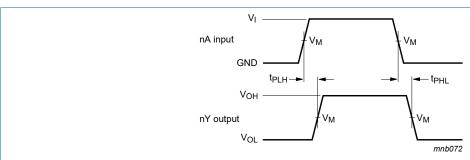
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\sum (C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs.}$

11.1. Waveform and test circuit



Measurement points are given in Table 9.

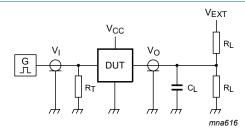
Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

The data input (nA) to output (nY) propagation delays

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Table 9. Measurement points

| Supply voltage | Input | Output | |
|------------------|--------------------|--------------------|--|
| V _{CC} | V _M | V _M | |
| 1.65 V to 1.95 V | 0.5V _{CC} | 0.5V _{CC} | |
| 2.3 V to 2.7 V | 0.5V _{CC} | 0.5V _{CC} | |
| 2.7 V | 1.5 V | 1.5 V | |
| 3.0 V to 3.6 V | 1.5 V | 1.5 V | |
| 4.5 V to 5.5 V | 0.5V _{CC} | 0.5V _{CC} | |



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. 9. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage | Input | | Load | Load | |
|------------------|-----------------|-------------|-------|----------------|-------------------------------------|
| V _{CC} | V _I | $t_r = t_f$ | CL | R _L | t _{PLH} , t _{PHL} |
| 1.65 V to 1.95 V | V _{CC} | ≤ 2.0 ns | 30 pF | 1 kΩ | open |
| 2.3 V to 2.7 V | V _{CC} | ≤ 2.0 ns | 30 pF | 500 Ω | open |
| 2.7 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open |
| 3.0 V to 3.6 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open |
| 4.5 V to 5.5 V | V _{CC} | ≤ 2.5 ns | 50 pF | 500 Ω | open |

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12. Package outline

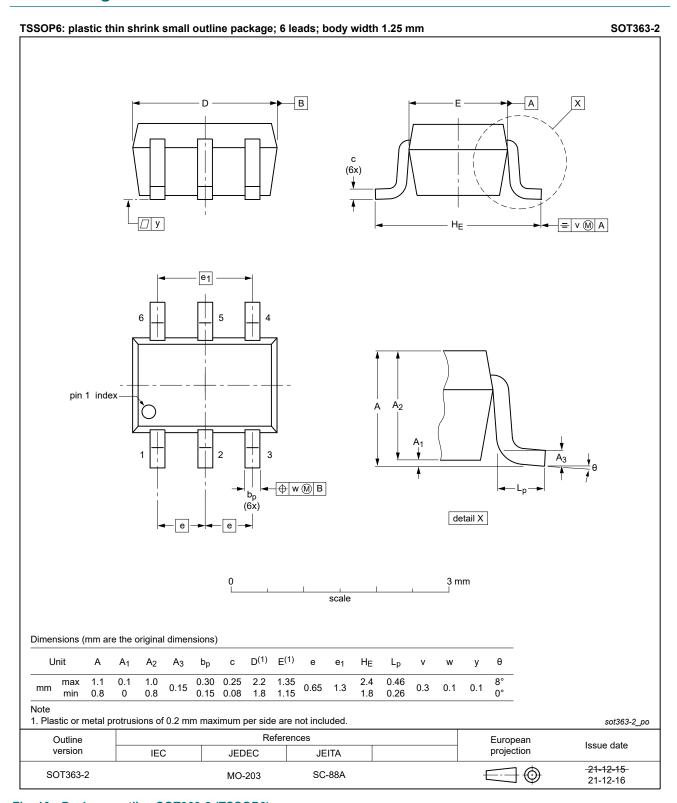


Fig. 10. Package outline SOT363-2 (TSSOP6)

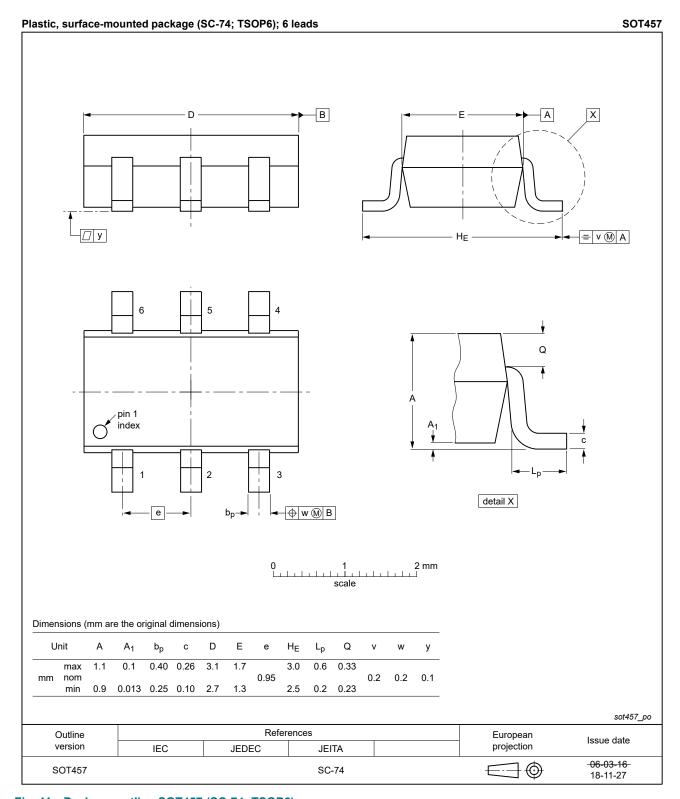


Fig. 11. Package outline SOT457 (SC-74; TSOP6)

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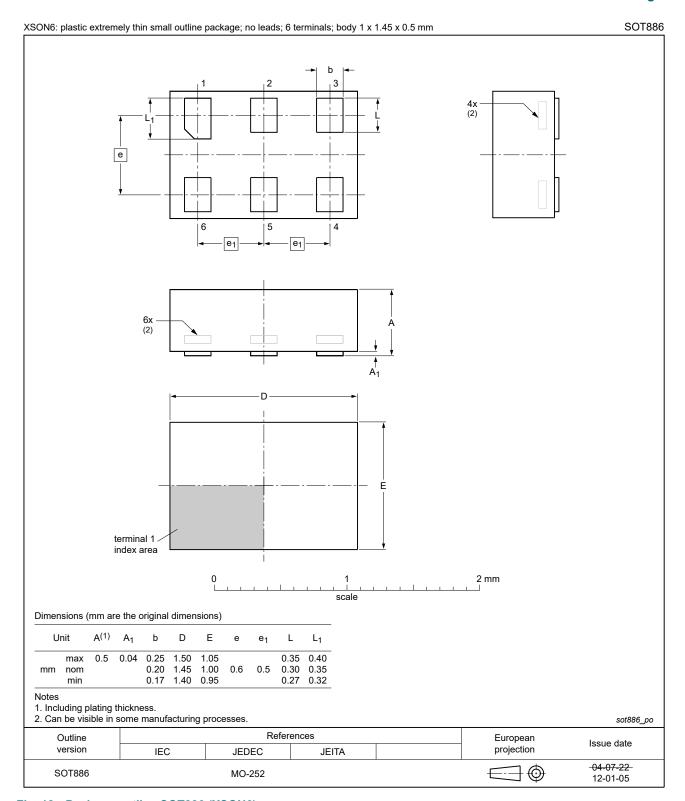


Fig. 12. Package outline SOT886 (XSON6)

Product data sheet

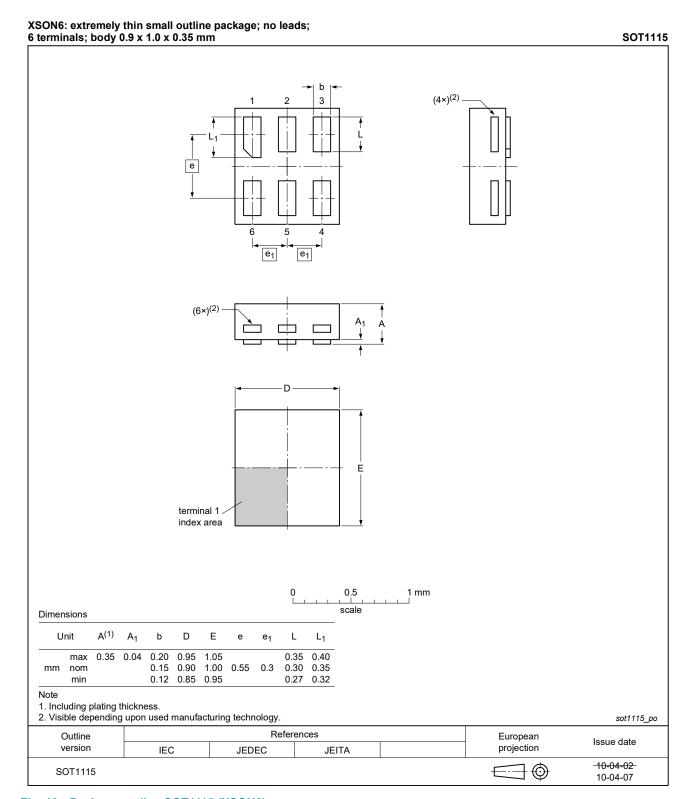


Fig. 13. Package outline SOT1115 (XSON6)

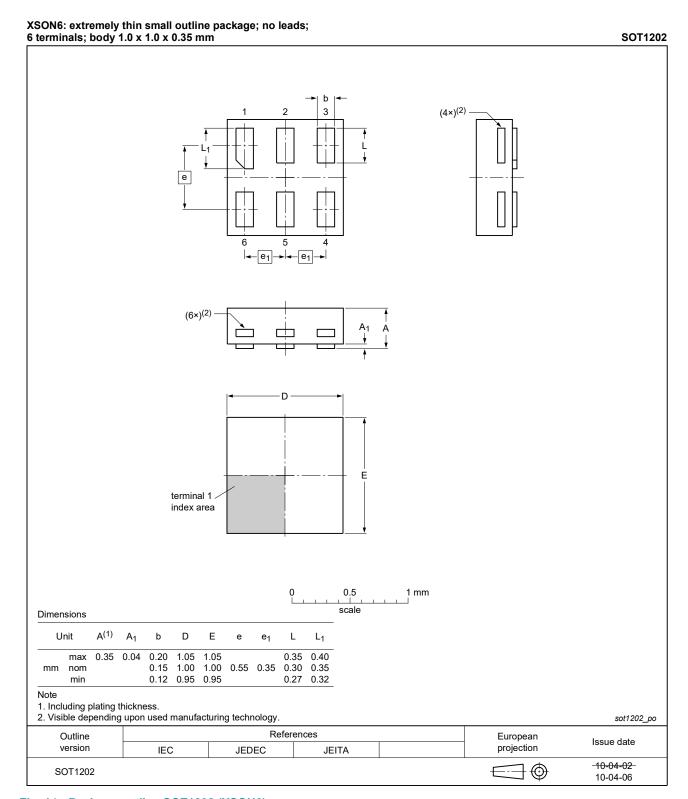


Fig. 14. Package outline SOT1202 (XSON6)

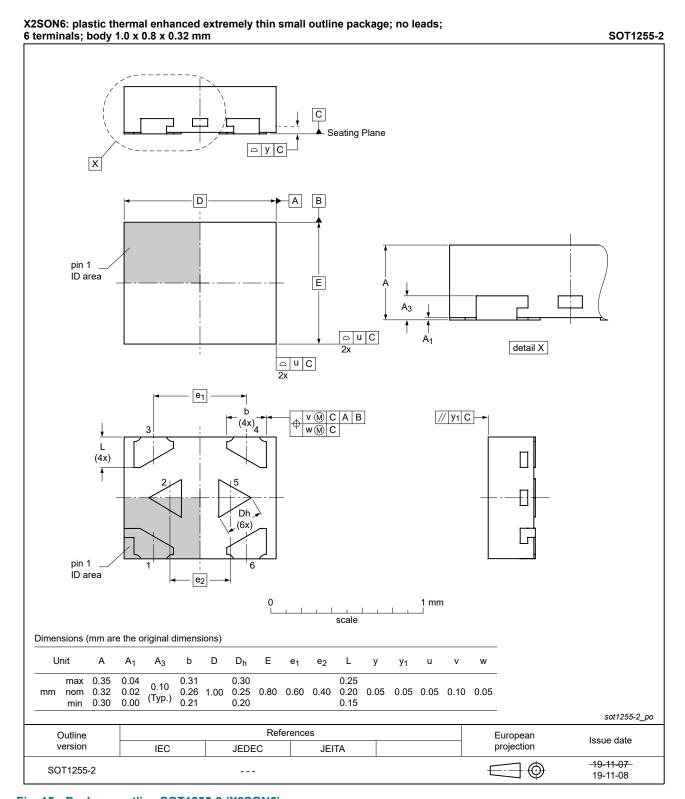


Fig. 15. Package outline SOT1255-2 (X2SON6)

Dual buffer gate

13. Abbreviations

Table 11. Abbreviations

| Acronym | Description |
|---------|---|
| CMOS | Complementary Metal Oxide Semiconductor |
| DUT | Device Under Test |
| ESD | ElectroStatic Discharge |
| HBM | Human Body Model |
| TTL | Transistor-Transistor Logic |

14. Revision history

Table 12. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes | | | |
|----------------|--|--|-----------------------|----------------------------|--|--|--|
| 74LVC2G34 v.13 | 20230822 | Product data sheet | - | 74LVC2G34 v.12 | | | |
| Modifications: | Section 2: I | ESD specification update | d according to the la | atest JEDEC standard. | | | |
| 74LVC2G34 v.12 | 20220120 | 0220120 Product data sheet - 74LVC2 | | | | | |
| Modifications: | Package S | OT363 (SC-88) changed | to SOT363-2 (TSS | OP6). | | | |
| 74LVC2G34 v.11 | 20211007 | Product data sheet | - | 74LVC2G34 v.10 | | | |
| Modifications: | SOT1255 (<u>Table 5</u>: De | OCT 1200 (X200110) package thanged to OCT 1200-2 (X200110) package. | | | | | |
| 74LVC2G34 v.10 | 20180223 | Product data sheet | - | 74LVC2G34 v.9 | | | |
| Modifications: | guidelines | of this data sheet has be of Nexperia. have been adapted to th | - | | | | |
| 74LVC2G34 v.9 | 20161215 | Product data sheet | - | 74LVC2G34 v.8 | | | |
| Modifications: | • <u>Table 7</u> : Th | e maximum limits for lea | kage current and su | pply current have changed. | | | |
| 74LVC2G34 v.8 | 20160210 | Product data sheet | - | 74LVC2G34 v.7 | | | |
| Modifications: | Added type | number 74LVC2G34GX | (SOT1255/X2SON | 6). | | | |
| 74LVC2G34 v.7 | 20120704 | Product data sheet | - | 74LVC2G34 v.6 | | | |
| Modifications: | Package out | utline drawing of SOT886 | (Fig. 12) modified. | | | | |
| 74LVC2G34 v.6 | 20111129 | Product data sheet | - | 74LVC2G34 v.5 | | | |
| Modifications: | Legal page | s updated. | | • | | | |
| 74LVC2G34 v.5 | 20100902 | Product data sheet | - | 74LVC2G34 v.4 | | | |
| 74LVC2G34 v.4 | 20070720 | Product data sheet | - | 74LVC2G34 v.3 | | | |
| 74LVC2G34 v.3 | 20070321 | Product data sheet | - | 74LVC2G34 v.2 | | | |
| 74LVC2G34 v.2 | 20040910 | Product specification | - | 74LVC2G34 v.1 | | | |
| 74LVC2G34 v.1 | 20030725 | Product specification | - | - | | | |

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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. |
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| 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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