

# 74LVC1G00

## Single 2-input NAND gate

Rev. 15 — 23 September 2024

Product data sheet

## 1. General description

The 74LVC1G00 is a single 2-input NAND gate. 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
- CMOS low power dissipation
- $I_{OFF}$  circuitry provides partial Power-down mode operation
- $\pm 24$  mA output drive ( $V_{CC} = 3.0$  V)
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- 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

3. Ordering information

Table 1. Ordering information

| Type number                 | Package           |        |                                                                                                                                                |                           |
|-----------------------------|-------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                             | Temperature range | Name   | Description                                                                                                                                    | Version                   |
| <a href="#">74LVC1G00GW</a> | -40 °C to +125 °C | TSSOP5 | plastic thin shrink small outline package; 5 leads; body width 1.25 mm                                                                         | <a href="#">SOT353-1</a>  |
| <a href="#">74LVC1G00GV</a> | -40 °C to +125 °C | SC-74A | plastic surface-mounted package; 5 leads                                                                                                       | <a href="#">SOT753</a>    |
| <a href="#">74LVC1G00GM</a> | -40 °C to +125 °C | XSON6  | plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm                                                    | <a href="#">SOT886</a>    |
| <a href="#">74LVC1G00GN</a> | -40 °C to +125 °C | XSON6  | extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm                                                          | <a href="#">SOT1115</a>   |
| <a href="#">74LVC1G00GS</a> | -40 °C to +125 °C | XSON6  | extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm                                                          | <a href="#">SOT1202</a>   |
| <a href="#">74LVC1G00GX</a> | -40 °C to +125 °C | X2SON5 | plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 × 0.8 × 0.32 mm                                 | <a href="#">SOT1226-3</a> |
| <a href="#">74LVC1G00GZ</a> | -40 °C to +125 °C | XSON5  | plastic thermal enhanced extremely thin small outline package with side-wettable flanks (SWF); no leads; 5 terminals; body 1.1 × 0.85 × 0.5 mm | <a href="#">SOT8065-1</a> |

4. Marking

Table 2. Marking codes

| Type number | Marking[1] |
|-------------|------------|
| 74LVC1G00GW | VA         |
| 74LVC1G00GV | V00        |
| 74LVC1G00GM | VA         |
| 74LVC1G00GN | VA         |
| 74LVC1G00GS | VA         |
| 74LVC1G00GX | VA         |
| 74LVC1G00GZ | VA         |

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

5. Functional diagram

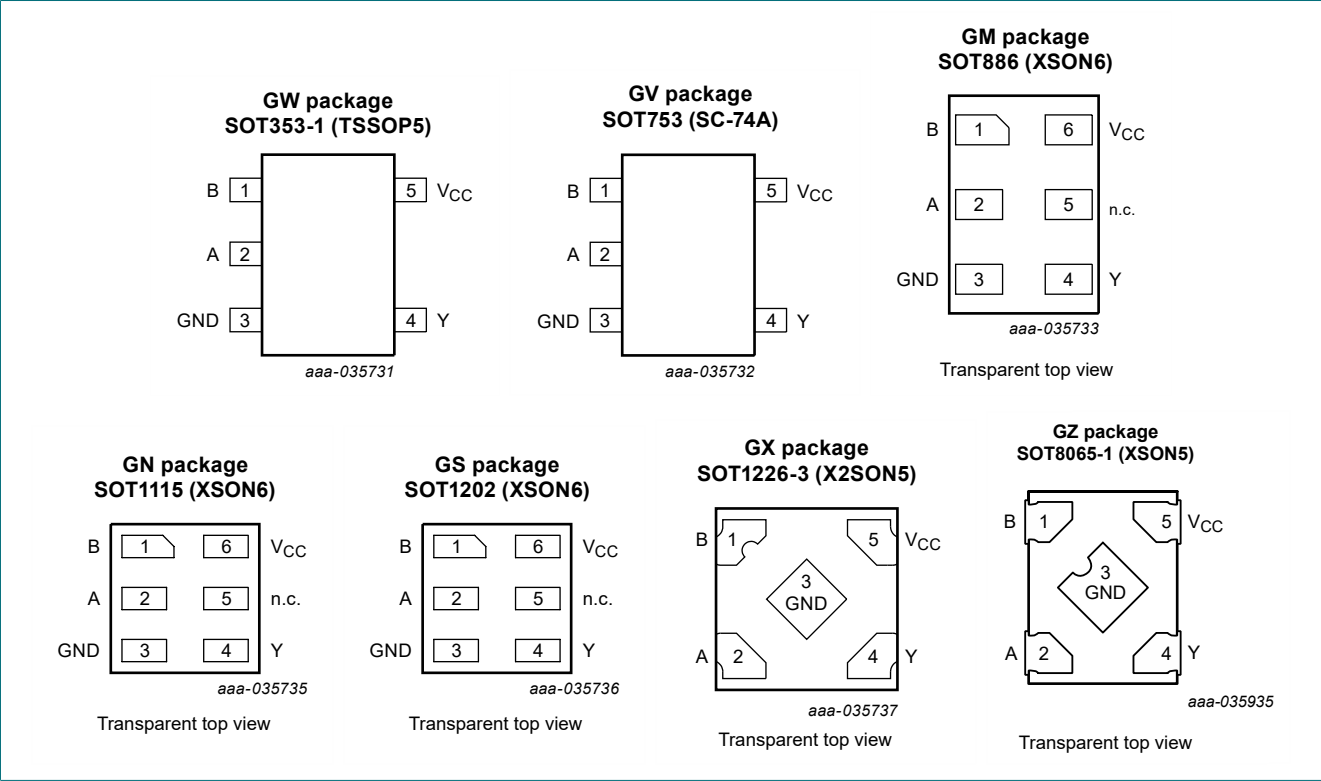
Fig. 1. Logic symbol

Fig. 2. IEC logic symbol

Fig. 3. Logic diagram

6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

| Symbol          | Pin                              |       | Description    |
|-----------------|----------------------------------|-------|----------------|
|                 | TSSOP5, SC-74A, XSON5 and X2SON5 | XSON6 |                |
| 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 <sub>CC</sub> | 5                                | 6     | supply voltage |

7. Functional description

Table 4. Function table

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

| Inputs |   | Outputs |
|--------|---|---------|
| A      | B | Y       |
| L      | L | H       |
| L      | H | H       |
| H      | L | H       |
| H      | H | L       |

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 <sub>CC</sub>  | supply voltage          |                                                          | -0.5 | +6.5                  | V    |
| I <sub>IK</sub>  | input clamping current  | V <sub>I</sub> < 0 V                                     | -50  | -                     | mA   |
| V <sub>I</sub>   | input voltage           | [1]                                                      | -0.5 | +6.5                  | V    |
| I <sub>OK</sub>  | output clamping current | V <sub>O</sub> > V <sub>CC</sub> or V <sub>O</sub> < 0 V | -    | ±50                   | mA   |
| V <sub>O</sub>   | output voltage          | Active mode [1]                                          | -0.5 | V <sub>CC</sub> + 0.5 | V    |
|                  |                         | Power-down mode; V <sub>CC</sub> = 0 V [1]               | -0.5 | +6.5                  | V    |
| I <sub>O</sub>   | output current          | V <sub>O</sub> = 0 V to V <sub>CC</sub>                  | -    | ±50                   | mA   |
| I <sub>CC</sub>  | supply current          |                                                          | -    | +100                  | mA   |
| I <sub>GND</sub> | ground current          |                                                          | -100 | -                     | mA   |
| P <sub>tot</sub> | total power dissipation | T <sub>amb</sub> = -40 °C to +125 °C [2]                 | -    | 250                   | mW   |
| T <sub>stg</sub> | storage temperature     |                                                          | -65  | +150                  | °C   |

- [1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
- [2] For SOT353-1 (TSSOP5) package: P<sub>tot</sub> derates linearly with 3.3 mW/K above 74 °C.  
For SOT753 (SC-74A) package: P<sub>tot</sub> derates linearly with 3.8 mW/K above 85 °C.  
For SOT886 (XSON6) package: P<sub>tot</sub> derates linearly with 3.3 mW/K above 74 °C.  
For SOT1115 (XSON6) package: P<sub>tot</sub> derates linearly with 3.2 mW/K above 71 °C.  
For SOT1202 (XSON6) package: P<sub>tot</sub> derates linearly with 3.3 mW/K above 74 °C.  
For SOT1226-3 (X2SON5) package: P<sub>tot</sub> derates linearly with 3.0 mW/K above 67 °C.  
For SOT8065-1 (XSON5) package: P<sub>tot</sub> derates linearly with 3.2 mW/K above 72 °C.

9. Recommended operating conditions

Table 6. Recommended operating conditions

| Symbol           | Parameter                           | Conditions                             | Min  | Typ | Max             | Unit |
|------------------|-------------------------------------|----------------------------------------|------|-----|-----------------|------|
| V <sub>CC</sub>  | supply voltage                      |                                        | 1.65 | -   | 5.5             | V    |
| V <sub>I</sub>   | input voltage                       |                                        | 0    | -   | 5.5             | V    |
| V <sub>O</sub>   | output voltage                      | Active mode                            | 0    | -   | V <sub>CC</sub> | V    |
|                  |                                     | Power-down mode; V <sub>CC</sub> = 0 V | 0    | -   | 5.5             | V    |
| T <sub>amb</sub> | ambient temperature                 |                                        | -40  | -   | +125            | °C   |
| Δt/ΔV            | input transition rise and fall rate | V <sub>CC</sub> = 1.65 V to 2.7 V      | -    | -   | 20              | ns/V |
|                  |                                     | V <sub>CC</sub> = 2.7 V to 5.5 V       | -    | -   | 10              | ns/V |

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 <sub>IH</sub>  | HIGH-level input voltage  | V <sub>CC</sub> = 1.65 V to 1.95 V                                                                        | 0.65V <sub>CC</sub>   | -      | -                   | 0.65V <sub>CC</sub>   | -                   | V    |
|                  |                           | V <sub>CC</sub> = 2.3 V to 2.7 V                                                                          | 1.7                   | -      | -                   | 1.7                   | -                   | V    |
|                  |                           | V <sub>CC</sub> = 2.7 V to 3.6 V                                                                          | 2.0                   | -      | -                   | 2.0                   | -                   | V    |
|                  |                           | V <sub>CC</sub> = 4.5 V to 5.5 V                                                                          | 0.7V <sub>CC</sub>    | -      | -                   | 0.7V <sub>CC</sub>    | -                   | V    |
| V <sub>IL</sub>  | LOW-level input voltage   | V <sub>CC</sub> = 1.65 V to 1.95 V                                                                        | -                     | -      | 0.35V <sub>CC</sub> | -                     | 0.35V <sub>CC</sub> | V    |
|                  |                           | V <sub>CC</sub> = 2.3 V to 2.7 V                                                                          | -                     | -      | 0.7                 | -                     | 0.7                 | V    |
|                  |                           | V <sub>CC</sub> = 2.7 V to 3.6 V                                                                          | -                     | -      | 0.8                 | -                     | 0.8                 | V    |
|                  |                           | V <sub>CC</sub> = 4.5 V to 5.5 V                                                                          | -                     | -      | 0.3V <sub>CC</sub>  | -                     | 0.3V <sub>CC</sub>  | V    |
| V <sub>OH</sub>  | HIGH-level output voltage | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>                                                       |                       |        |                     |                       |                     |      |
|                  |                           | I <sub>O</sub> = -100 µA; V <sub>CC</sub> = 1.65 V to 5.5 V                                               | V <sub>CC</sub> - 0.1 | -      | -                   | V <sub>CC</sub> - 0.1 | -                   | V    |
|                  |                           | I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V                                                          | 1.2                   | -      | -                   | 0.95                  | -                   | V    |
|                  |                           | I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V                                                           | 1.9                   | -      | -                   | 1.7                   | -                   | V    |
|                  |                           | I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V                                                          | 2.2                   | -      | -                   | 1.9                   | -                   | V    |
|                  |                           | I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V                                                          | 2.3                   | -      | -                   | 2.0                   | -                   | V    |
|                  |                           | I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V                                                          | 3.8                   | -      | -                   | 3.4                   | -                   | V    |
| V <sub>OL</sub>  | LOW-level output voltage  | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>                                                       |                       |        |                     |                       |                     |      |
|                  |                           | I <sub>O</sub> = 100 µA; V <sub>CC</sub> = 1.65 V to 5.5 V                                                | -                     | -      | 0.1                 | -                     | 0.1                 | V    |
|                  |                           | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V                                                           | -                     | -      | 0.45                | -                     | 0.70                | V    |
|                  |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V                                                            | -                     | -      | 0.3                 | -                     | 0.45                | V    |
|                  |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V                                                           | -                     | -      | 0.4                 | -                     | 0.60                | V    |
|                  |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V                                                           | -                     | -      | 0.55                | -                     | 0.80                | V    |
|                  |                           | I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V                                                           | -                     | -      | 0.55                | -                     | 0.80                | V    |
| I <sub>I</sub>   | input leakage current     | V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V                                             | -                     | ±0.1   | ±1                  | -                     | ±1                  | µA   |
| I <sub>OFF</sub> | power-off leakage current | V <sub>CC</sub> = 0 V; V <sub>I</sub> or V <sub>O</sub> = 5.5 V                                           | -                     | ±0.1   | ±2                  | -                     | ±2                  | µA   |
| I <sub>CC</sub>  | supply current            | V <sub>I</sub> = 5.5 V or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 1.65 V to 5.5 V                    | -                     | 0.1    | 4                   | -                     | 4                   | µA   |
| ΔI <sub>CC</sub> | additional supply current | V <sub>CC</sub> = 2.3 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; per pin | -                     | 5      | 500                 | -                     | 500                 | µA   |
| C <sub>I</sub>   | input capacitance         | V <sub>CC</sub> = 3.3 V; V <sub>I</sub> = GND to V <sub>CC</sub>                                          | -                     | 5      | -                   | -                     | -                   | pF   |

[1] All typical values are measured at V<sub>CC</sub> = 3.3 V and T<sub>amb</sub> = 25 °C.

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

| Symbol          | Parameter                     | Conditions                                                            | -40 °C to +85 °C |        |     | -40 °C to +125 °C |      | Unit |
|-----------------|-------------------------------|-----------------------------------------------------------------------|------------------|--------|-----|-------------------|------|------|
|                 |                               |                                                                       | Min              | Typ[1] | Max | Min               | Max  |      |
| t <sub>pd</sub> | propagation delay             | A, B to Y; see Fig. 4 [2]                                             |                  |        |     |                   |      |      |
|                 |                               | V <sub>CC</sub> = 1.65 V to 1.95 V                                    | 1.0              | 3.3    | 8.0 | 1.0               | 10.5 | ns   |
|                 |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                                      | 0.5              | 2.2    | 5.5 | 0.5               | 7.0  | ns   |
|                 |                               | V <sub>CC</sub> = 2.7 V                                               | 0.5              | 2.6    | 5.8 | 0.5               | 7.5  | ns   |
|                 |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                                      | 0.5              | 2.2    | 4.7 | 0.5               | 6.0  | ns   |
|                 |                               | V <sub>CC</sub> = 4.5 V to 5.5 V                                      | 0.5              | 1.8    | 4.0 | 0.5               | 5.5  | ns   |
| C <sub>PD</sub> | power dissipation capacitance | V <sub>I</sub> = GND to V <sub>CC</sub> ; V <sub>CC</sub> = 3.3 V [3] | -                | 14     | -   | -                 | -    | pF   |

- [1] Typical values are measured at T<sub>amb</sub> = 25 °C and V<sub>CC</sub> = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.
- [2] t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.
- [3] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> 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<sub>i</sub> = input frequency in MHz;
- f<sub>o</sub> = output frequency in MHz;
- C<sub>L</sub> = output load capacitance in pF;
- V<sub>CC</sub> = supply voltage in V;
- N = number of inputs switching;
- $\sum (C_L \times V_{CC}^2 \times f_o)$  = sum of outputs.

11.1. Waveform and test circuit

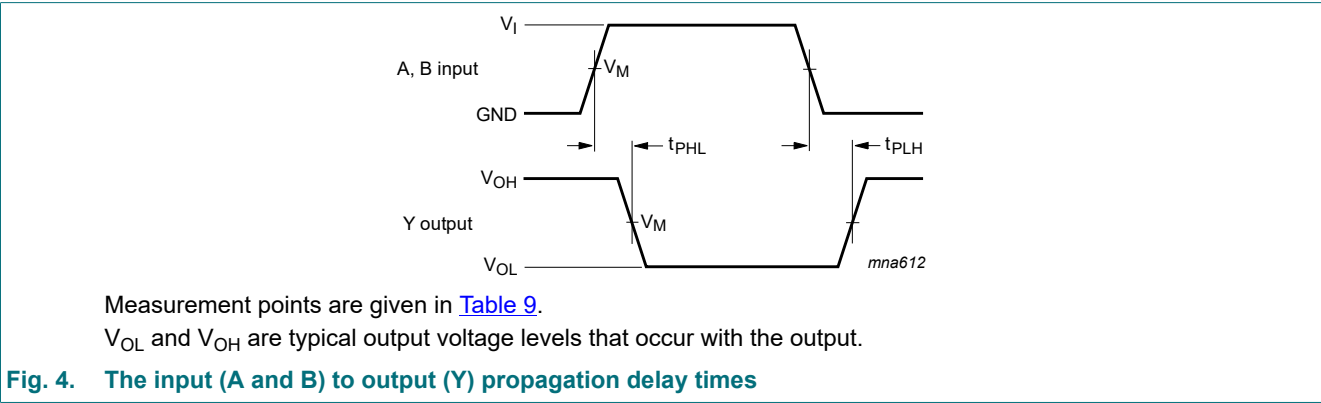
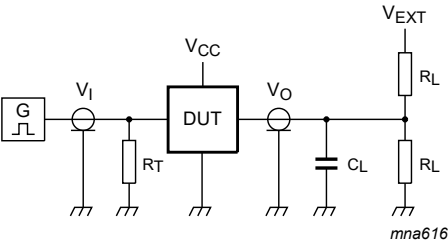


Table 9. Measurement points

| Supply voltage   | Input              | Output             |
|------------------|--------------------|--------------------|
| V <sub>CC</sub>  | V <sub>M</sub>     | V <sub>M</sub>     |
| 1.65 V to 1.95 V | 0.5V <sub>CC</sub> | 0.5V <sub>CC</sub> |
| 2.3 V to 2.7 V   | 0.5V <sub>CC</sub> | 0.5V <sub>CC</sub> |
| 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 <sub>CC</sub> | 0.5V <sub>CC</sub> |



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. 5. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage   | Input    |                      | Load  |              | $V_{EXT}$          |
|------------------|----------|----------------------|-------|--------------|--------------------|
| $V_{CC}$         | $V_I$    | $t_r = t_f$          | $C_L$ | $R_L$        | $t_{PLH}, t_{PHL}$ |
| 1.65 V to 1.95 V | $V_{CC}$ | $\leq 2.0\text{ ns}$ | 30 pF | 1 k $\Omega$ | open               |
| 2.3 V to 2.7 V   | $V_{CC}$ | $\leq 2.0\text{ ns}$ | 30 pF | 500 $\Omega$ | open               |
| 2.7 V            | 2.7 V    | $\leq 2.5\text{ ns}$ | 50 pF | 500 $\Omega$ | open               |
| 3.0 V to 3.6 V   | 2.7 V    | $\leq 2.5\text{ ns}$ | 50 pF | 500 $\Omega$ | open               |
| 4.5 V to 5.5 V   | $V_{CC}$ | $\leq 2.5\text{ ns}$ | 50 pF | 500 $\Omega$ | open               |

12. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm

SOT353-1

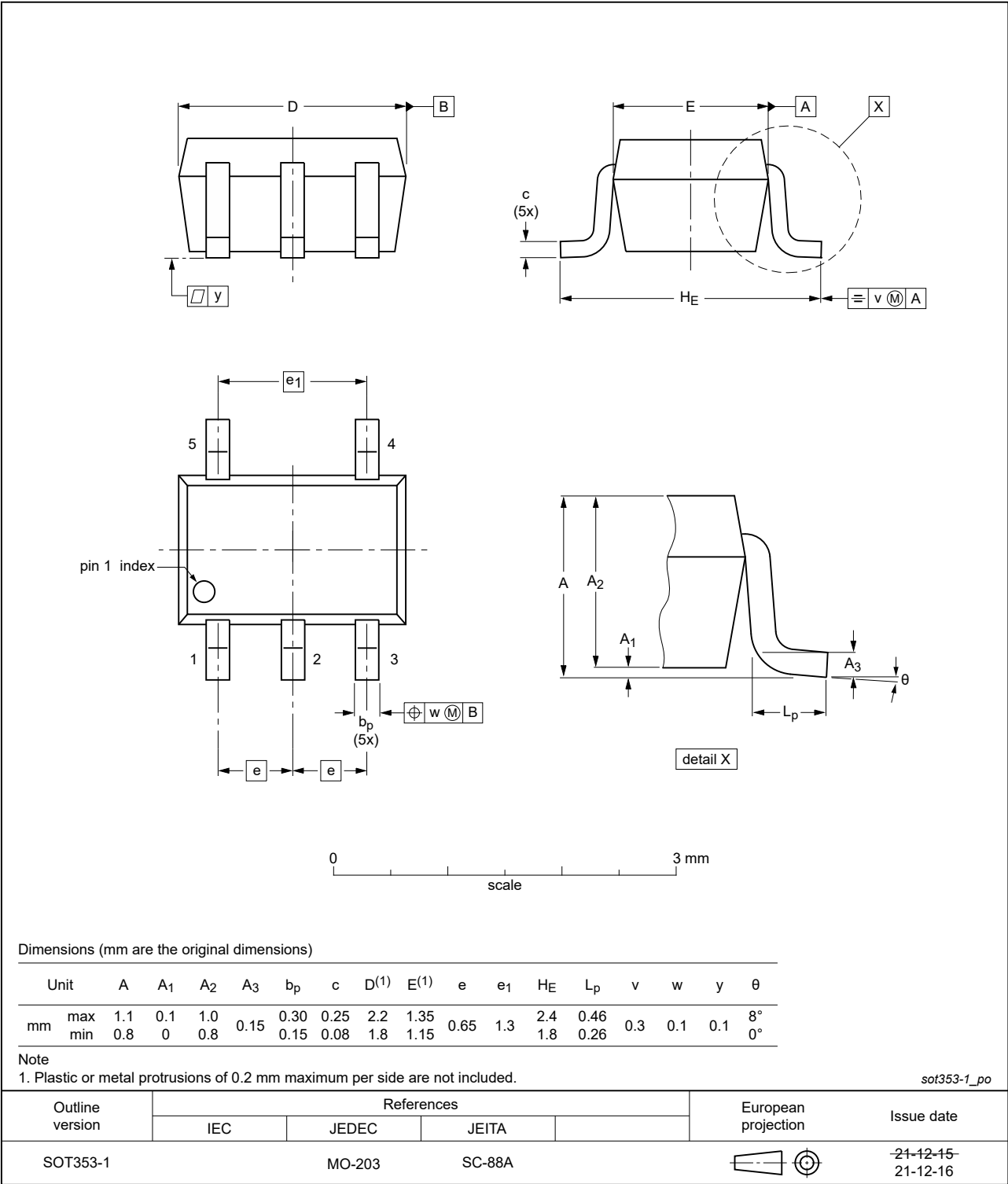
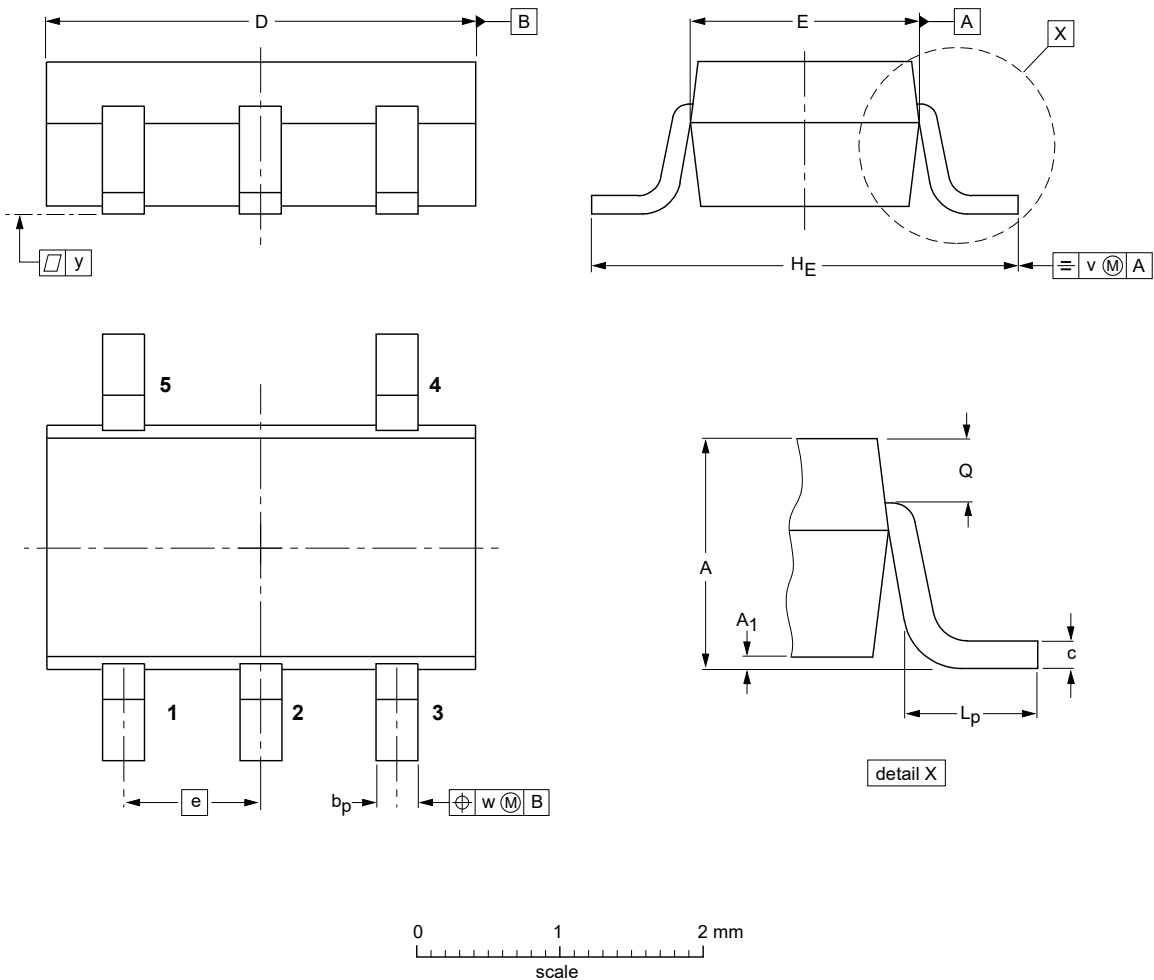


Fig. 6. Package outline SOT353-1 (TSSOP5)

Plastic surface-mounted package; 5 leads

SOT753



DIMENSIONS (mm are the original dimensions)

| UNIT | A          | A <sub>1</sub> | b <sub>p</sub> | c            | D          | E          | e    | H <sub>E</sub> | L <sub>p</sub> | Q            | v   | w   | y   |
|------|------------|----------------|----------------|--------------|------------|------------|------|----------------|----------------|--------------|-----|-----|-----|
| mm   | 1.1<br>0.9 | 0.100<br>0.013 | 0.40<br>0.25   | 0.26<br>0.10 | 3.1<br>2.7 | 1.7<br>1.3 | 0.95 | 3.0<br>2.5     | 0.6<br>0.2     | 0.33<br>0.23 | 0.2 | 0.2 | 0.1 |

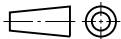
| OUTLINE<br>VERSION | REFERENCES |       |        |  | EUROPEAN<br>PROJECTION                                                                | ISSUE DATE           |
|--------------------|------------|-------|--------|--|---------------------------------------------------------------------------------------|----------------------|
|                    | IEC        | JEDEC | JEITA  |  |                                                                                       |                      |
| SOT753             |            |       | SC-74A |  |  | 02-04-16<br>06-03-16 |

Fig. 7. Package outline SOT753 (SC-74A)

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

SOT886

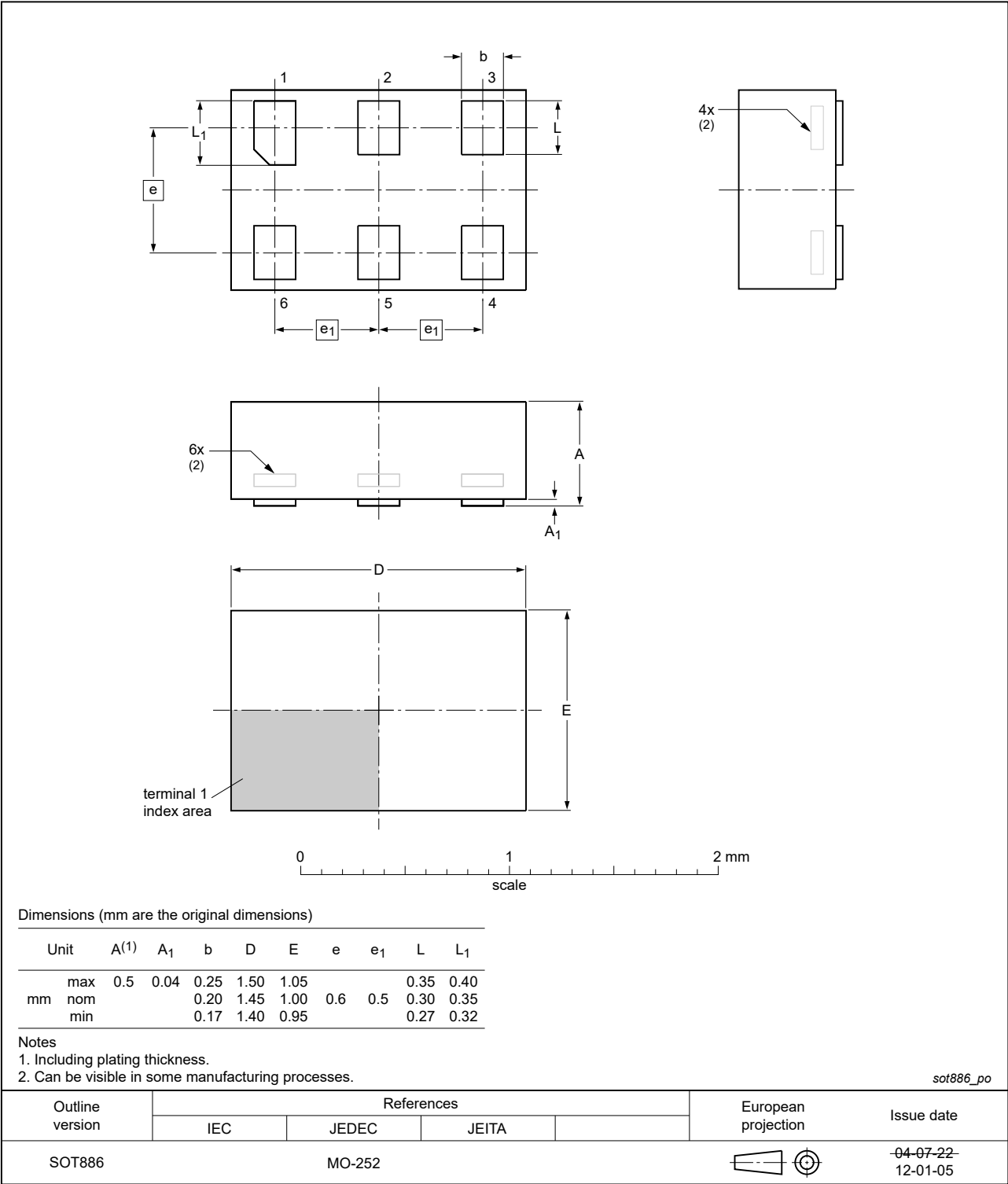


Fig. 8. Package outline SOT886 (XSON6)

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

SOT1115



Fig. 9. 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. 10. Package outline SOT1202 (XSON6)

X2SON5: plastic thermal enhanced extremely thin small outline package; no leads;  
5 terminals; body 0.8 x 0.8 x 0.32 mm

SOT1226-3

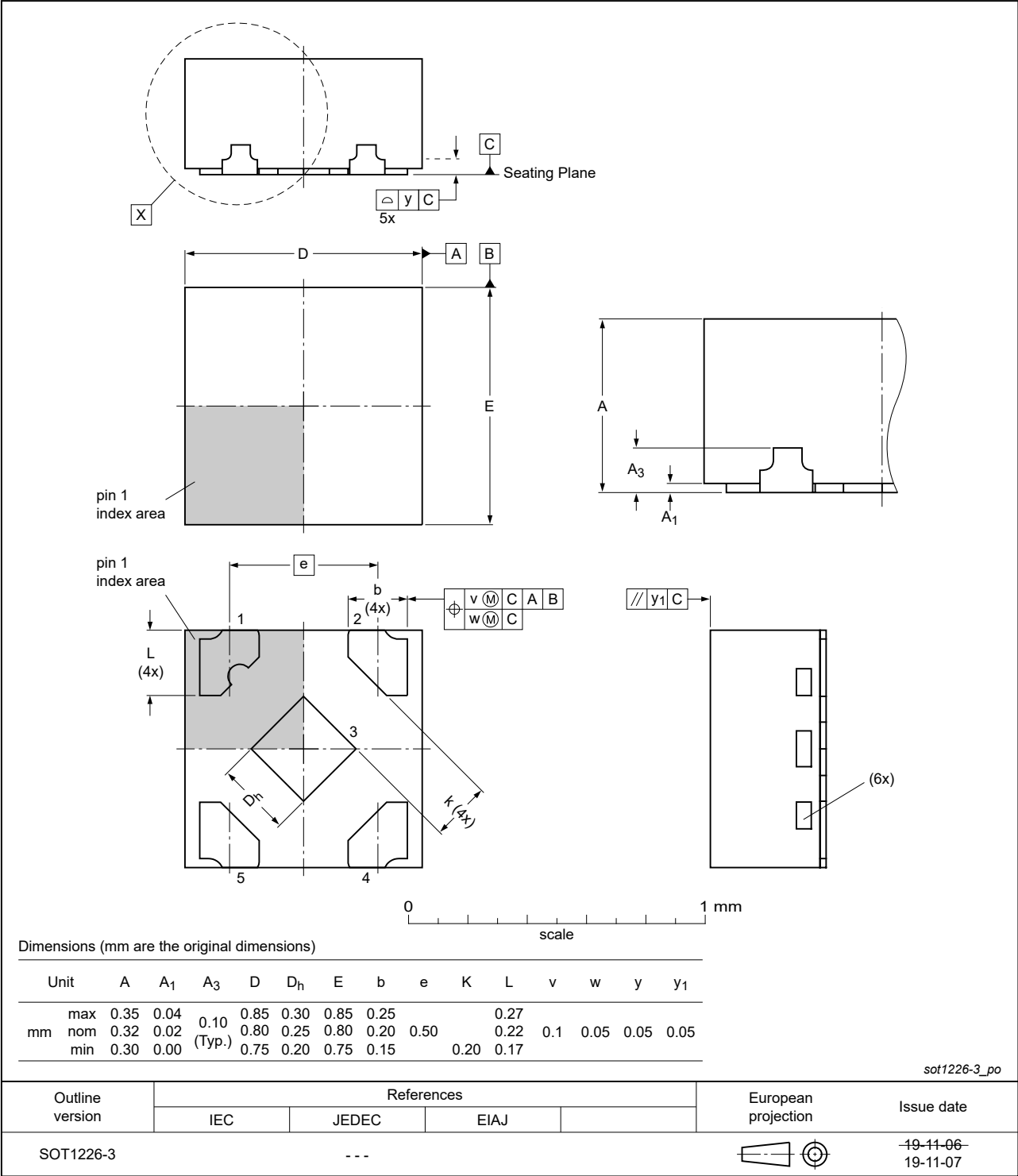


Fig. 11. Package outline SOT1226-3 (X2SON5)

XSON5: Plastic thermal enhanced extremely thin small outline package with side-wettable flanks (SWF); no leads; 5 terminals; body 1.1 × 0.85 × 0.5 mm

SOT8065-1

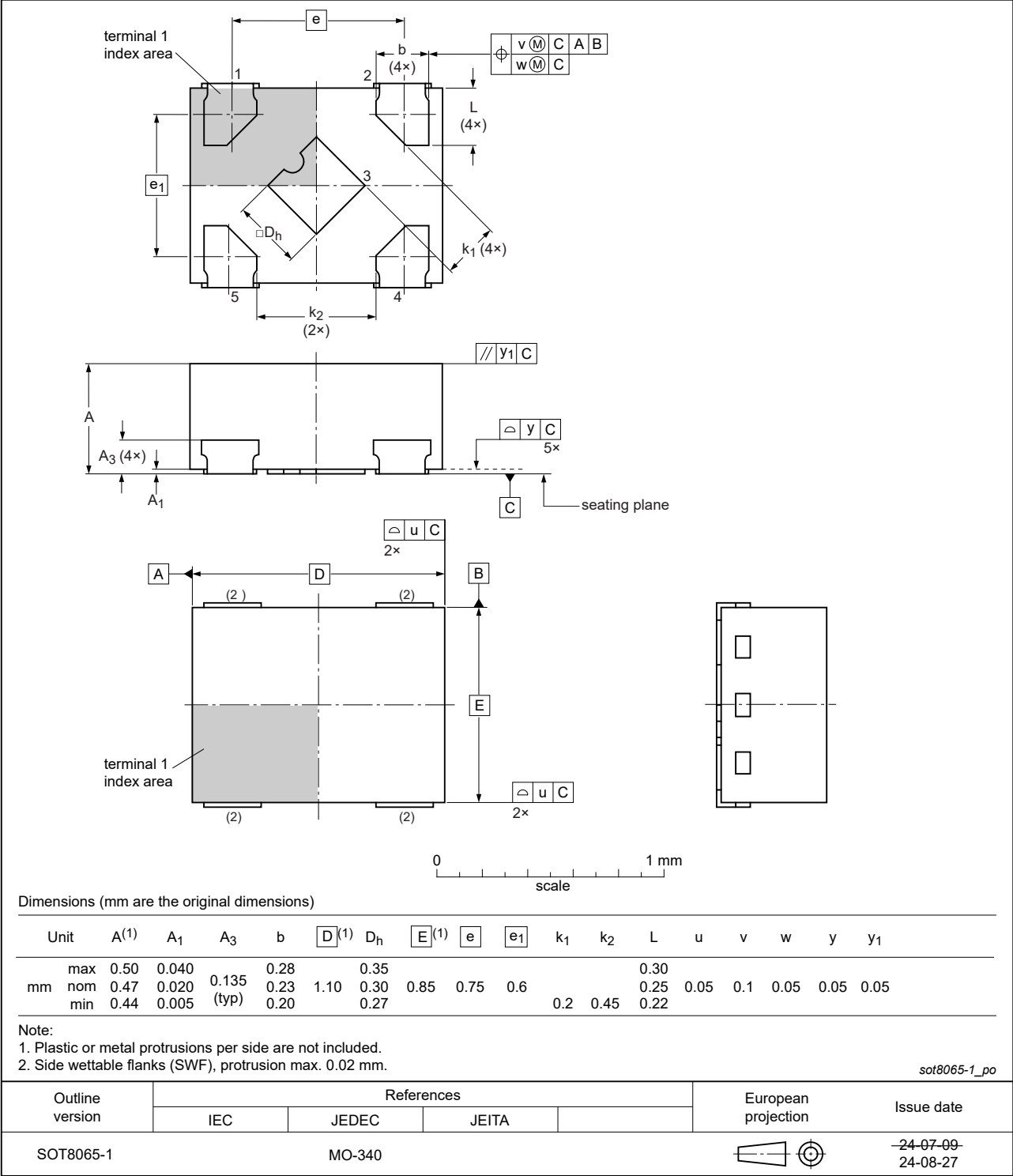


Fig. 12. Package outline SOT8065-1 (XSON5)

13. Abbreviations

Table 11. Abbreviations

| Acronym | Description                               |
|---------|-------------------------------------------|
| ANSI    | American National Standards Institute     |
| CDM     | Charged Device Model                      |
| CMOS    | Complementary Metal Oxide Semiconductor   |
| DUT     | Device Under Test                         |
| ESD     | ElectroStatic Discharge                   |
| ESDA    | ElectroStatic Discharge Association       |
| HBM     | Human Body Model                          |
| JEDEC   | Joint Electron Device Engineering Council |
| TTL     | Transistor-Transistor Logic               |

14. Revision history

Table 12. Revision history

| Document ID    | Release date                                                                                                                                                                                                                                                                                                                                                                                       | Data sheet status     | Change notice | Supersedes     |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|----------------|
| 74LVC1G00 v.15 | 20240923                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.14 |
| Modifications: | • Type number 74LVC1G00GZ (SOT8065-1/XSON5) added.                                                                                                                                                                                                                                                                                                                                                 |                       |               |                |
| 74LVC1G00 v.14 | 20230804                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.13 |
| Modifications: | • <a href="#">Section 2</a> : ESD specification updated according to the latest JEDEC standard.                                                                                                                                                                                                                                                                                                    |                       |               |                |
| 74LVC1G00 v.13 | 20220208                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.12 |
| Modifications: | • SOT1226 (X2SON5) package changed to SOT1226-3 (X2SON5) package.<br>• <a href="#">Fig. 6</a> : Package outline drawing for SOT353-1 (TSSOP5) package has changed.<br>• Type number 74LVC1G00GF (SOT891/XSON6) removed.<br>• <a href="#">Table 5</a> : Derating values for P <sub>tot</sub> total power dissipation updated.<br>• <a href="#">Section 1</a> and <a href="#">Section 2</a> updated. |                       |               |                |
| 74LVC1G00 v.12 | 20190206                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.11 |
| Modifications: | • The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.<br>• Legal texts have been adapted to the new company name where appropriate.                                                                                                                                                                                                              |                       |               |                |
| 74LVC1G00 v.11 | 20161129                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.10 |
| Modifications: | • <a href="#">Table 7</a> : The maximum limits for leakage current and supply current have changed.                                                                                                                                                                                                                                                                                                |                       |               |                |
| 74LVC1G00 v.10 | 20120702                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.9  |
| Modifications: | • Added type number 74LVC1G00GX (SOT1226)<br>• Package outline drawing of SOT886 ( <a href="#">Fig. 8</a> ) modified.                                                                                                                                                                                                                                                                              |                       |               |                |
| 74LVC1G00 v.9  | 20111207                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.8  |
| Modifications: | • Legal pages updated.                                                                                                                                                                                                                                                                                                                                                                             |                       |               |                |
| 74LVC1G00 v.8  | 20101020                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.7  |
| 74LVC1G00 v.7  | 20070717                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.6  |
| 74LVC1G00 v.6  | 20060915                                                                                                                                                                                                                                                                                                                                                                                           | Product data sheet    | -             | 74LVC1G00 v.5  |
| 74LVC1G00 v.5  | 20040907                                                                                                                                                                                                                                                                                                                                                                                           | Product specification | -             | 74LVC1G00 v.4  |
| 74LVC1G00 v.4  | 20021115                                                                                                                                                                                                                                                                                                                                                                                           | Product specification | -             | 74LVC1G00 v.3  |
| 74LVC1G00 v.3  | 20020515                                                                                                                                                                                                                                                                                                                                                                                           | Product specification | -             | 74LVC1G00 v.2  |

## 15. Legal information

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| 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.                                     |

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- [2] The term 'short data sheet' is explained in section "Definitions".
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