

# 74LVC1G97

Low-power configurable multiple function gate

Rev. 6 — 8 August 2018

Product data sheet

## 1. General description

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The 74LVC1G97 is a configurable multiple function gate with Schmitt-trigger inputs. The device can be configured as any of the following logic functions MUX, AND, OR, NAND, NOR, inverter and buffer; using the 3-bit input. All inputs can be connected to  $V_{CC}$  or GND.

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.

This device is fully specified for partial power-down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

## 2. Features and benefits

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- Wide supply voltage range from 1.65 V to 5.5 V
- 5 V tolerant input/output for interfacing with 5 V logic
- High noise immunity
- Complies with JEDEC standard:
  - JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8B/JESD36 (2.7 V to 3.6 V).
- $\pm 24$  mA output drive ( $V_{CC} = 3.0$  V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
  - CDM JESD22-C101E exceeds 1000 V
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Inputs accept voltages up to 5 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 |
| 74LVC1G97GW | -40 °C to +125 °C | SC-88  | plastic surface-mounted package; 6 leads   | SOT363  |
| 74LVC1G97GV | -40 °C to +125 °C | SC-74  | plastic surface mounted package; 6 leads   | SOT457  |
| 74LVC1G97GM | -40 °C to +125 °C | XSON6  | plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm                    | SOT886  |
| 74LVC1G97GF | -40 °C to +125 °C | XSON6  | plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1 × 0.5 mm                       | SOT891  |
| 74LVC1G97GN | -40 °C to +125 °C | XSON6  | extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm                          | SOT1115 |
| 74LVC1G97GS | -40 °C to +125 °C | XSON6  | extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm                          | SOT1202 |
| 74LVC1G97GX | -40 °C to +125 °C | X2SON6 | plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.35 mm | SOT1255 |

### 4. Marking

Table 2. Marking

| Type number | Marking code [1] |
|-------------|------------------|
| 74LVC1G97GW | YV               |
| 74LVC1G97GV | Y97              |
| 74LVC1G97GM | YV               |
| 74LVC1G97GF | YV               |
| 74LVC1G97GN | YV               |
| 74LVC1G97GS | YV               |
| 74LVC1G97GX | YV               |

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

### 5. Functional diagram

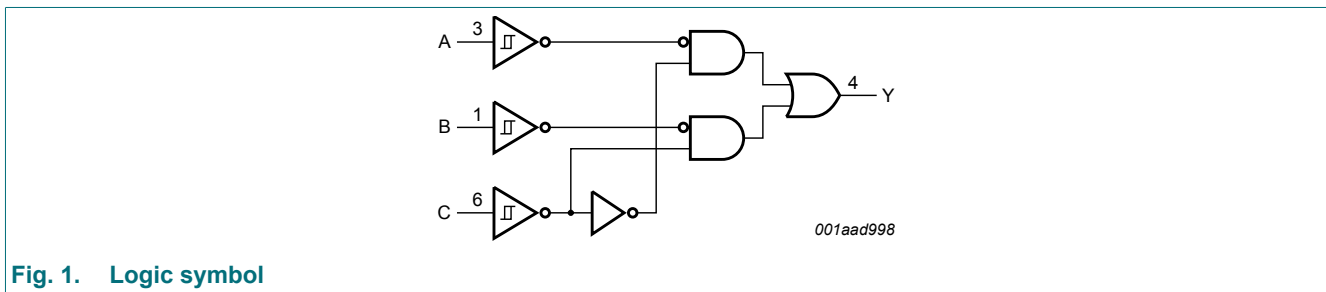


Fig. 1. Logic symbol

## 6. Pinning information

### 6.1. Pinning

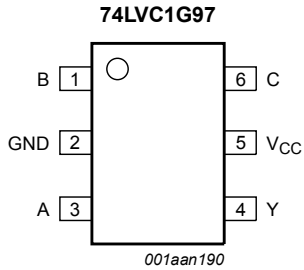


Fig. 2. Pin configuration SOT363 (SC-88) and SOT457 (SC-74)

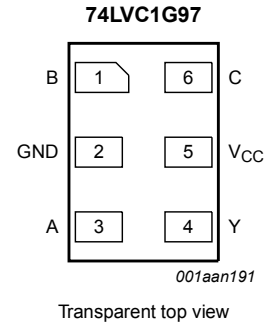


Fig. 3. Pin configuration SOT886 (XSON6)

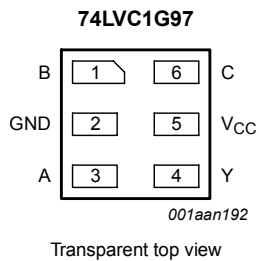


Fig. 4. Pin configuration SOT891, SOT1115, and SOT1202 (XSON6)

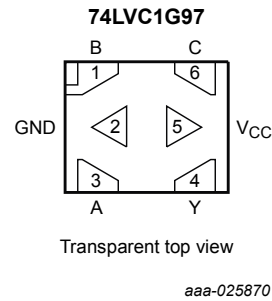


Fig. 5. Pin configuration SOT1255 (X2SON6)

### 6.2. Pin description

Table 3. Pin description

| Symbol          | Pin | Description    |
|-----------------|-----|----------------|
| B               | 1   | data input     |
| GND             | 2   | ground (0 V)   |
| A               | 3   | data input     |
| Y               | 4   | data output    |
| V <sub>CC</sub> | 5   | supply voltage |
| C               | 6   | data input     |

## 7. Functional description

**Table 4. Function table**

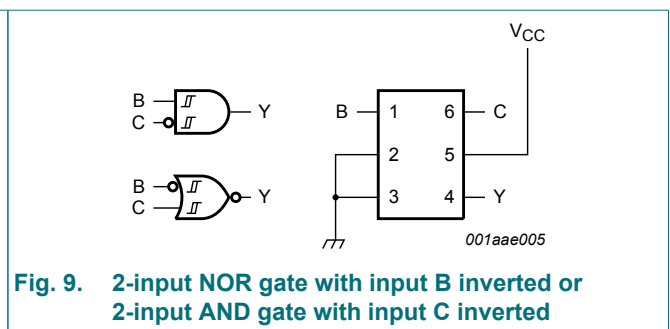
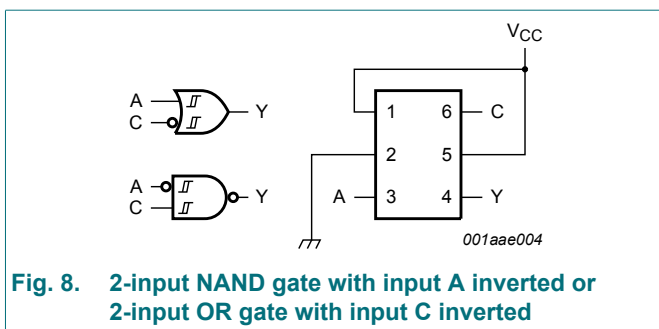
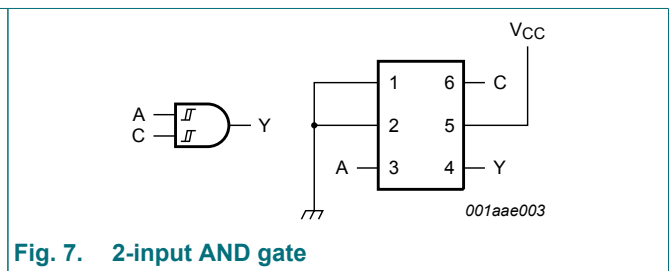
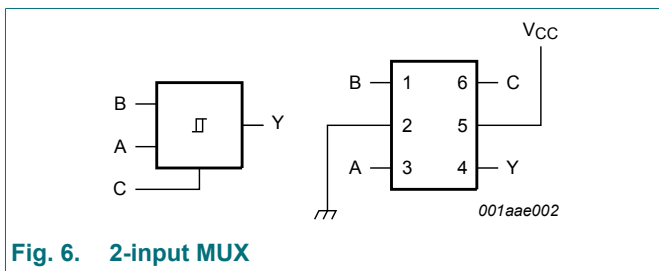
H = HIGH voltage level; L = LOW voltage level.

| Input |   |   | Output |
|-------|---|---|--------|
| C     | B | A | Y      |
| L     | L | L | L      |
| L     | L | H | L      |
| L     | H | L | H      |
| L     | H | H | H      |
| H     | L | L | L      |
| H     | L | H | H      |
| H     | H | L | L      |
| H     | H | H | H      |

### 7.1. Logic configurations

**Table 5. Function selection table**

| Logic function                       | Figure                      |
|--------------------------------------|-----------------------------|
| 2-input MUX                          | see <a href="#">Fig. 6</a>  |
| 2-input AND                          | see <a href="#">Fig. 7</a>  |
| 2-input OR with one input inverted   | see <a href="#">Fig. 8</a>  |
| 2-input NAND with one input inverted | see <a href="#">Fig. 8</a>  |
| 2-input AND with one input inverted  | see <a href="#">Fig. 9</a>  |
| 2-input NOR with one input inverted  | see <a href="#">Fig. 9</a>  |
| 2-input OR                           | see <a href="#">Fig. 10</a> |
| Inverter                             | see <a href="#">Fig. 11</a> |
| Buffer                               | see <a href="#">Fig. 12</a> |



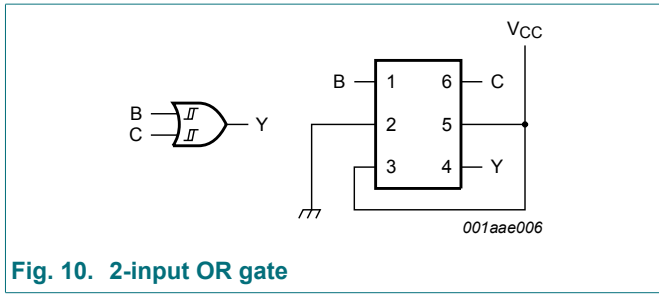


Fig. 10. 2-input OR gate

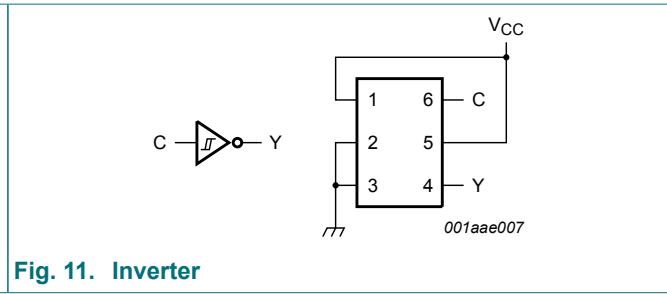


Fig. 11. Inverter

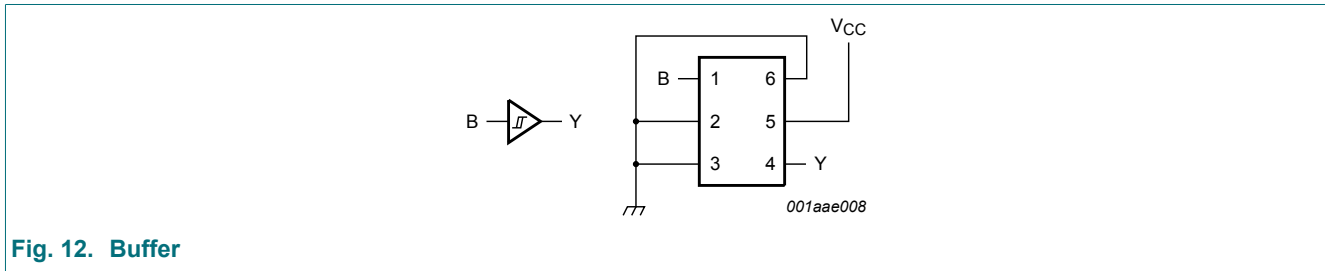


Fig. 12. Buffer

## 8. Limiting values

Table 6. 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           |
| $V_I$     | input voltage           | [1]   | -0.5   | +6.5     | V            |
| $I_{OK}$  | output clamping current | $V_O > V_{CC}$ or $V_O < 0$ V                       | -      | $\pm 50$ | mA           |
| $V_O$     | output voltage          | Active mode   | [1][2] | +6.5     | V            |
|           |                         | Power-down mode                                     | [1][2] | +6.5     | V            |
| $I_O$     | output current          | $V_O = 0$ V to $V_{CC}$                             | -      | $\pm 50$ | mA           |
| $I_{CC}$  | supply current          |   | -      | +100     | mA           |
| $I_{GND}$ | ground current          |   | -100   | -        | mA           |
| $T_{stg}$ | storage temperature     |   | -65    | +150     | $^{\circ}$ C |
| $P_{tot}$ | total power dissipation | $T_{amb} = -40$ $^{\circ}$ C to $+125$ $^{\circ}$ C | [3]    | 250      | mW           |

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

[2] When  $V_{CC} = 0$  V (Power-down mode), the output voltage can be 5.5 V in normal operation.

[3] For SC-88 and SC-74 packages: above 87.5  $^{\circ}$ C the value of  $P_{tot}$  derates linearly with 4.0 mW/K.

For XSON6 and X2SON6 packages: above 118  $^{\circ}$ C the value of  $P_{tot}$  derates linearly with 7.8 mW/K.

## 9. Recommended operating conditions

Table 7. Recommended operating conditions

| Symbol    | Parameter           | Conditions                      | Min  | Typ | Max      | Unit         |
|-----------|---------------------|---------------------------------|------|-----|----------|--------------|
| $V_{CC}$  | supply voltage      |                                 | 1.65 | -   | 5.5      | V            |
| $V_I$     | input voltage       |                                 | 0    | -   | 5.5      | V            |
| $V_O$     | output voltage      | Active mode                     | 0    | -   | $V_{CC}$ | V            |
|           |                     | $V_{CC} = 0$ V; Power-down mode | 0    | -   | 5.5      | V            |
| $T_{amb}$ | ambient temperature |                                 | -40  | -   | +125     | $^{\circ}$ C |

## 10. Static characteristics

**Table 8. 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>OL</sub>  | LOW-level output voltage  | V <sub>I</sub> = V <sub>CC</sub> or GND  |                       |         |      |                       |      |      |
|                  |                           | 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 | -                     | 0.7  | 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  | -                     | 0.6  | V    |
|                  |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V  | -                     | -       | 0.55 | -                     | 0.8  | V    |
|                  |                           | I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V  | -                     | -       | 0.55 | -                     | 0.8  | V    |
| V <sub>OH</sub>  | HIGH-level output voltage | V <sub>I</sub> = V <sub>CC</sub> or GND  |                       |         |      |                       |      |      |
|                  |                           | 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    |
| 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>I</sub> or V <sub>O</sub> = 5.5 V; V <sub>CC</sub> = 0 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>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 2.3 V to 5.5 V | -                     | 5       | 500  | -                     | 500  | µA   |
| C <sub>I</sub>   | input capacitance         |  | -                     | 2.5     | -    | -                     | -    | pF   |

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

## 11. Dynamic characteristics

**Table 9. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 14.

| 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, C to Y; see Fig. 13 [2]  |                  |         |      |                   |      |      |
|                 |                               | V <sub>CC</sub> = 1.65 V to 1.95 V                                   | 1.0              | 6.0     | 14.4 | 1.0               | 18.0 | ns   |
|                 |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                                     | 0.5              | 3.5     | 8.3  | 0.5               | 10.4 | ns   |
|                 |                               | V <sub>CC</sub> = 2.7 V  | 0.5              | 4.2     | 8.5  | 0.5               | 10.6 | ns   |
|                 |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                                     | 0.5              | 3.8     | 6.3  | 0.5               | 7.9  | ns   |
|                 |                               | V <sub>CC</sub> = 4.5 V to 5.5 V                                     | 0.5              | 3.0     | 5.1  | 0.5               | 6.4  | ns   |
| C <sub>PD</sub> | power dissipation capacitance | V <sub>CC</sub> = 3.3 V; V <sub>I</sub> = GND to V <sub>CC</sub> [3] | -                | 22      | -    | -                 | -    | pF   |

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

[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).

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

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;

Σ(C<sub>L</sub> × V<sub>CC</sub><sup>2</sup> × f<sub>o</sub>) = sum of outputs.

### 11.1. Waveforms and test circuit

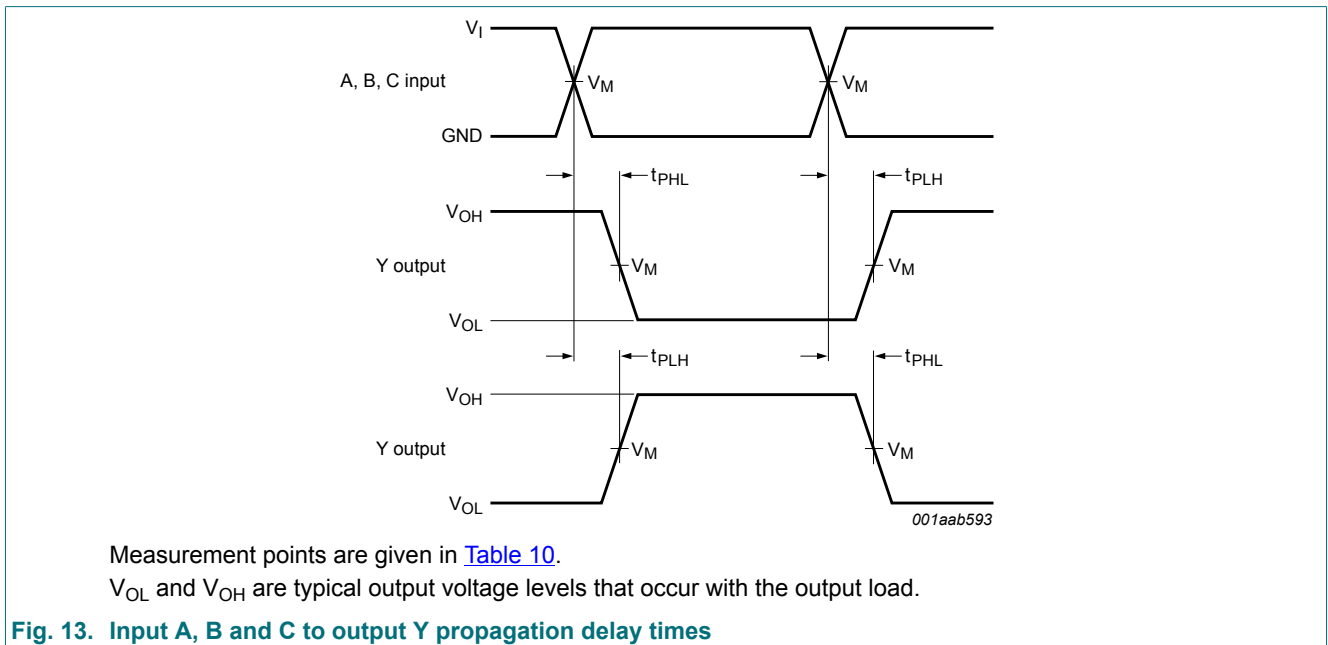
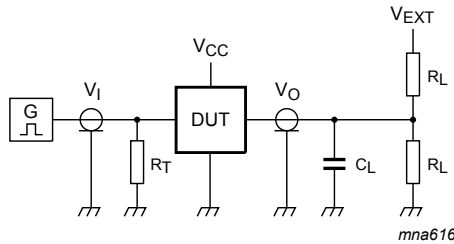


Table 10. Measurement points

| Supply voltage   | Input       |          | Output      |
|------------------|-------------|----------|-------------|
| $V_{CC}$         | $V_M$       | $V_I$    | $V_M$       |
| 1.65 V to 1.95 V | $0.5V_{CC}$ | $V_{CC}$ | $0.5V_{CC}$ |
| 2.3 V to 2.7 V   | $0.5V_{CC}$ | $V_{CC}$ | $0.5V_{CC}$ |
| 2.7 V            | 1.5 V       | 2.7 V    | 1.5 V       |
| 3.0 V to 3.6 V   | 1.5 V       | 2.7 V    | 1.5 V       |
| 4.5 V to 5.5 V   | $0.5V_{CC}$ | $V_{CC}$ | $0.5V_{CC}$ |



Measurement points are given in [Table 11](#).

Definitions test circuit:

$R_L$  = Load resistance.

$C_L$  = Load capacitance including jig and probe capacitance.

$R_T$  = Termination resistance should be equal to output impedance  $Z_o$  of the pulse generator.

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

Fig. 14. Test circuit for measuring switching times

Table 11. Measurement points

| 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 | $V_{CC}$ | $\leq 2.0$ ns | 30 pF | 1 k $\Omega$ | open               |
| 2.3 to 2.7 V     | $V_{CC}$ | $\leq 2.0$ ns | 30 pF | 500 $\Omega$ | open               |
| 2.7 V            | 2.7 V    | $\leq 2.5$ ns | 50 pF | 500 $\Omega$ | open               |
| 3.0 V to 3.6 V   | 2.7 V    | $\leq 2.5$ ns | 50 pF | 500 $\Omega$ | open               |
| 4.5 V to 5.5 V   | $V_{CC}$ | $\leq 2.5$ ns | 50 pF | 500 $\Omega$ | open               |

## 12. Transfer characteristics

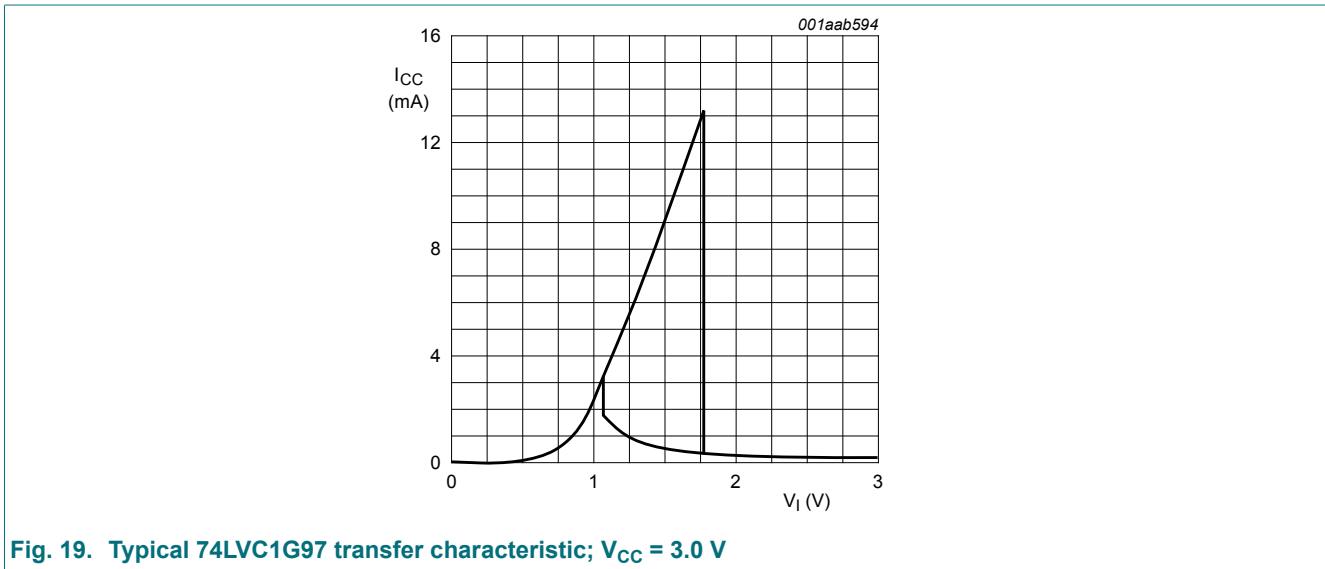
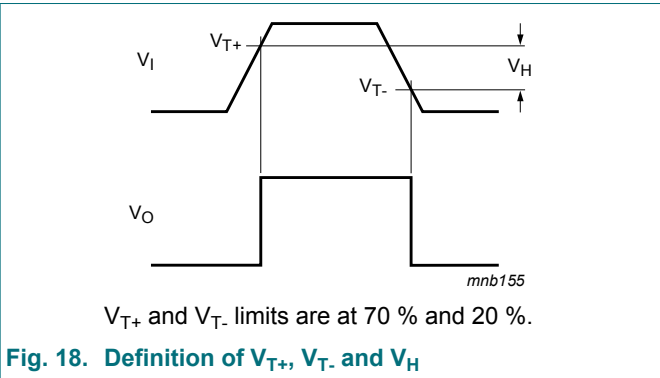
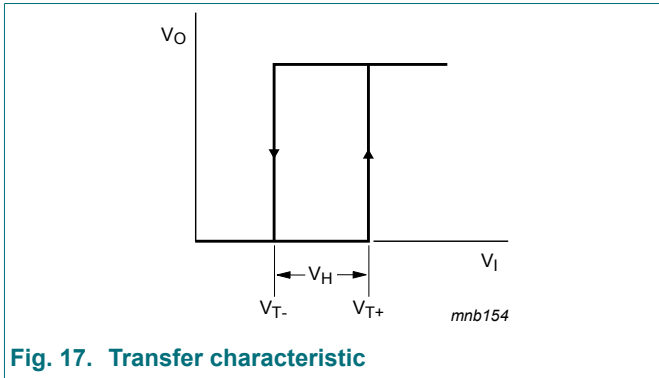
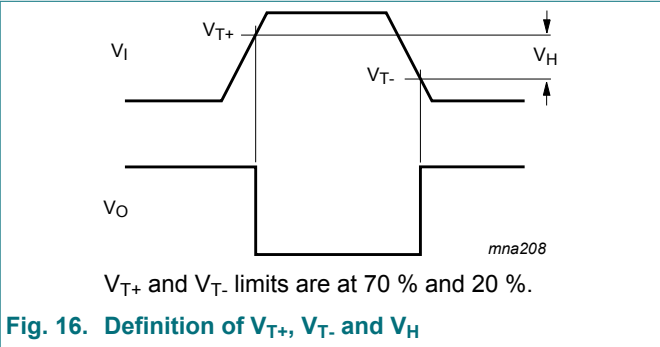
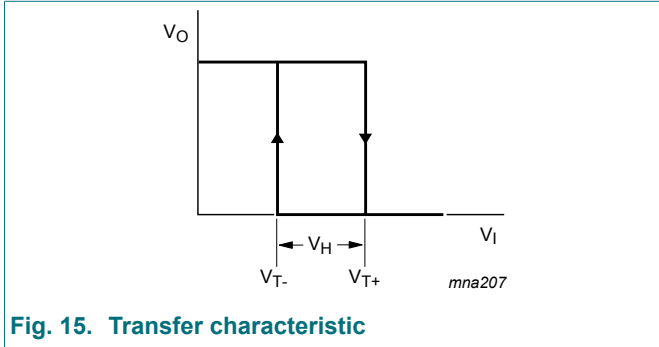
**Table 12. Transfer characteristics**

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>T+</sub> | positive-going threshold voltage | See <a href="#">Fig. 15</a> , <a href="#">Fig. 16</a> , <a href="#">Fig. 17</a> and <a href="#">Fig. 18</a>  |                  |         |      |                   |      |      |
|                 |                                  | V <sub>CC</sub> = 1.8 V  | 0.70             | 1.02    | 1.20 | 0.67              | 1.20 | V    |
|                 |                                  | V <sub>CC</sub> = 2.3 V  | 1.11             | 1.42    | 1.60 | 1.08              | 1.60 | V    |
|                 |                                  | V <sub>CC</sub> = 3.0 V, see <a href="#">Fig. 19</a>   | 1.50             | 1.79    | 2.00 | 1.47              | 2.00 | V    |
|                 |                                  | V <sub>CC</sub> = 4.5 V  | 2.16             | 2.52    | 2.74 | 2.13              | 2.74 | V    |
|                 |                                  | V <sub>CC</sub> = 5.5 V  | 2.61             | 2.99    | 3.33 | 2.58              | 3.33 | V    |
| V <sub>T-</sub> | negative-going threshold voltage | See <a href="#">Fig. 15</a> , <a href="#">Fig. 16</a> , <a href="#">Fig. 17</a> and <a href="#">Fig. 18</a>  |                  |         |      |                   |      |      |
|                 |                                  | V <sub>CC</sub> = 1.8 V  | 0.30             | 0.53    | 0.72 | 0.30              | 0.75 | V    |
|                 |                                  | V <sub>CC</sub> = 2.3 V  | 0.58             | 0.77    | 1.00 | 0.58              | 1.03 | V    |
|                 |                                  | V <sub>CC</sub> = 3.0 V, see <a href="#">Fig. 19</a>   | 0.80             | 1.04    | 1.30 | 0.80              | 1.33 | V    |
|                 |                                  | V <sub>CC</sub> = 4.5 V  | 1.21             | 1.55    | 1.90 | 1.21              | 1.93 | V    |
|                 |                                  | V <sub>CC</sub> = 5.5 V  | 1.45             | 1.86    | 2.29 | 1.45              | 2.32 | V    |
| V <sub>H</sub>  | hysteresis voltage               | (V <sub>T+</sub> - V <sub>T-</sub> ).<br>See <a href="#">Fig. 15</a> , <a href="#">Fig. 16</a> , <a href="#">Fig. 17</a> and <a href="#">Fig. 18</a> |                  |         |      |                   |      |      |
|                 |                                  | V <sub>CC</sub> = 1.8 V  | 0.30             | 0.48    | 0.62 | 0.23              | 0.62 | V    |
|                 |                                  | V <sub>CC</sub> = 2.3 V  | 0.40             | 0.64    | 0.80 | 0.34              | 0.80 | V    |
|                 |                                  | V <sub>CC</sub> = 3.0 V, see <a href="#">Fig. 19</a>   | 0.50             | 0.75    | 1.00 | 0.44              | 1.00 | V    |
|                 |                                  | V <sub>CC</sub> = 4.5 V  | 0.71             | 0.97    | 1.20 | 0.65              | 1.20 | V    |
|                 |                                  | V <sub>CC</sub> = 5.5 V  | 0.71             | 1.13    | 1.40 | 0.65              | 1.40 | V    |

[1] Typical values are measured at T<sub>amb</sub> = 25 °C.

12.1. Waveforms transfer characteristics



### 13. Package outline

Plastic surface-mounted package; 6 leads

SOT363

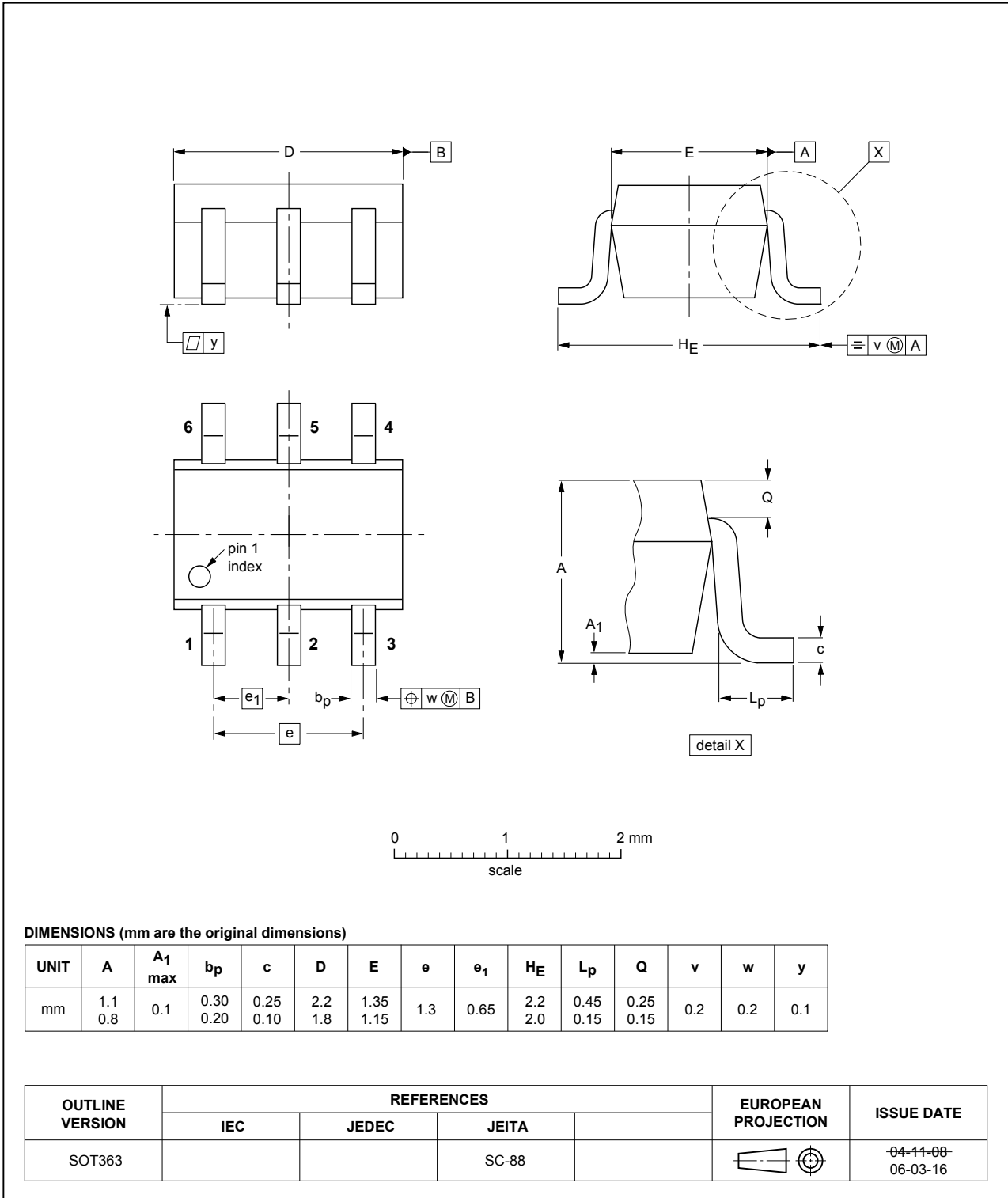


Fig. 20. Package outline SOT363 (SC-88)

Plastic surface-mounted package (TSOP6); 6 leads

SOT457

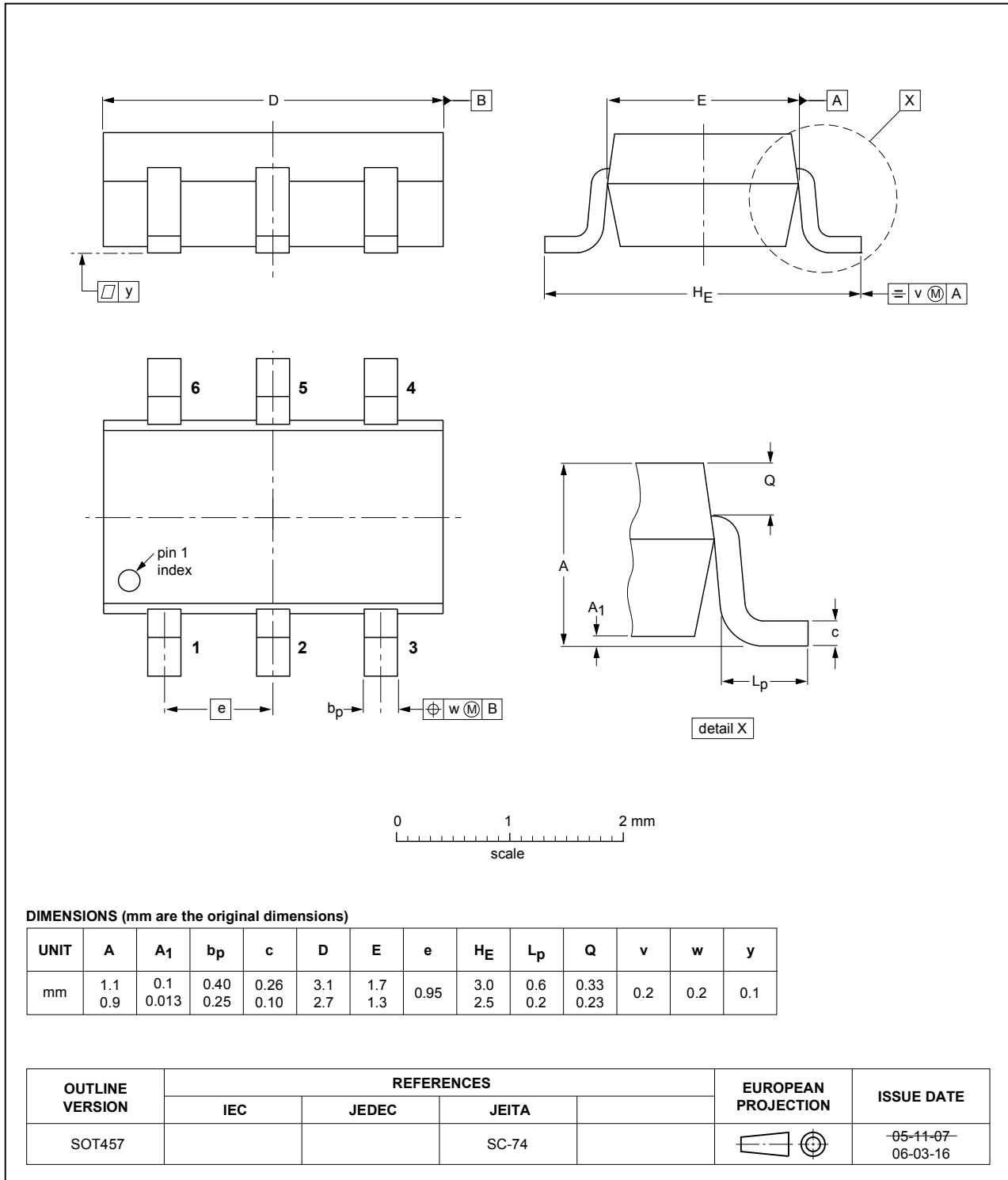


Fig. 21. Package outline SOT457 (SC-74)

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

SOT886

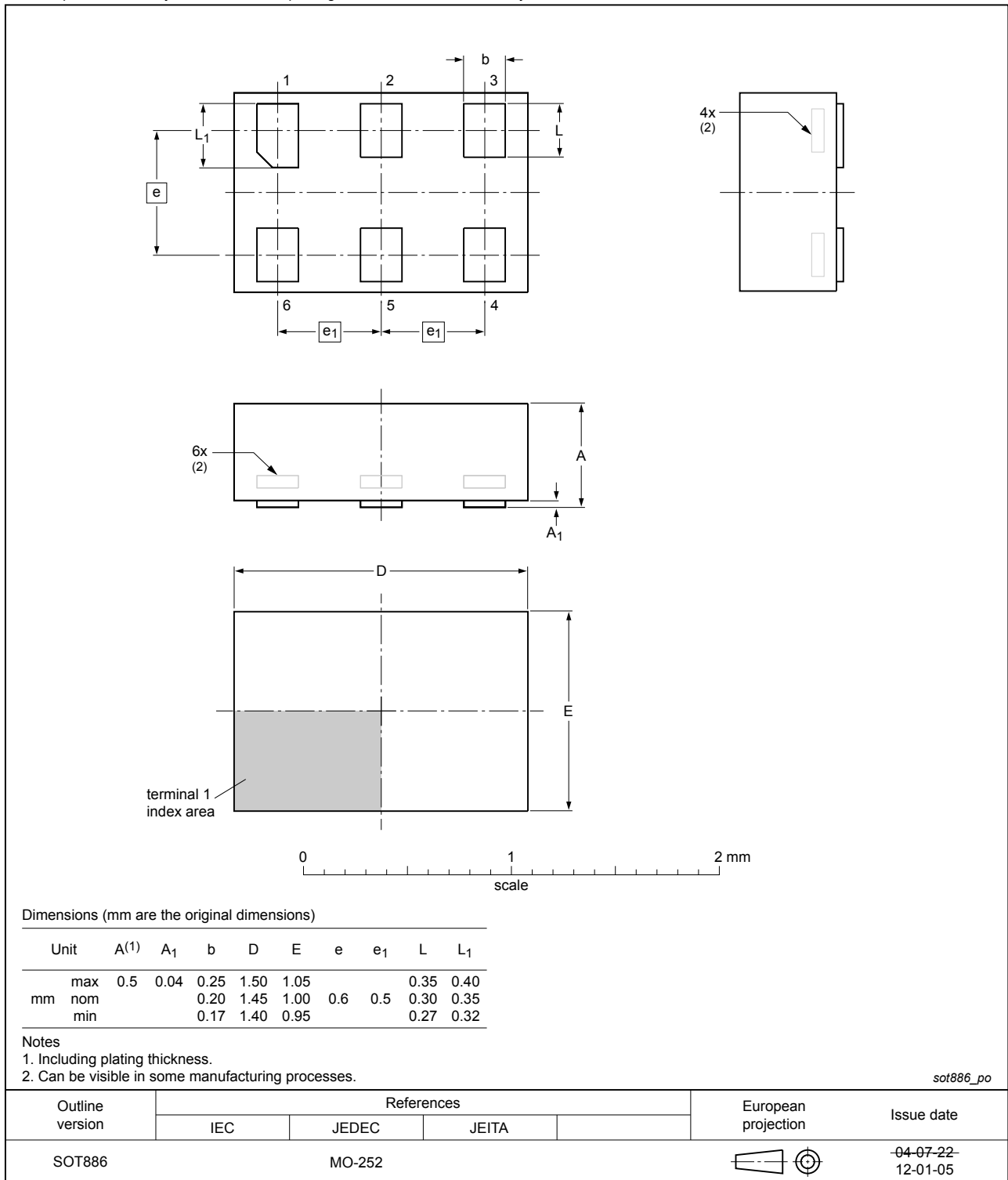


Fig. 22. Package outline SOT886 (XSON6)

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

SOT891

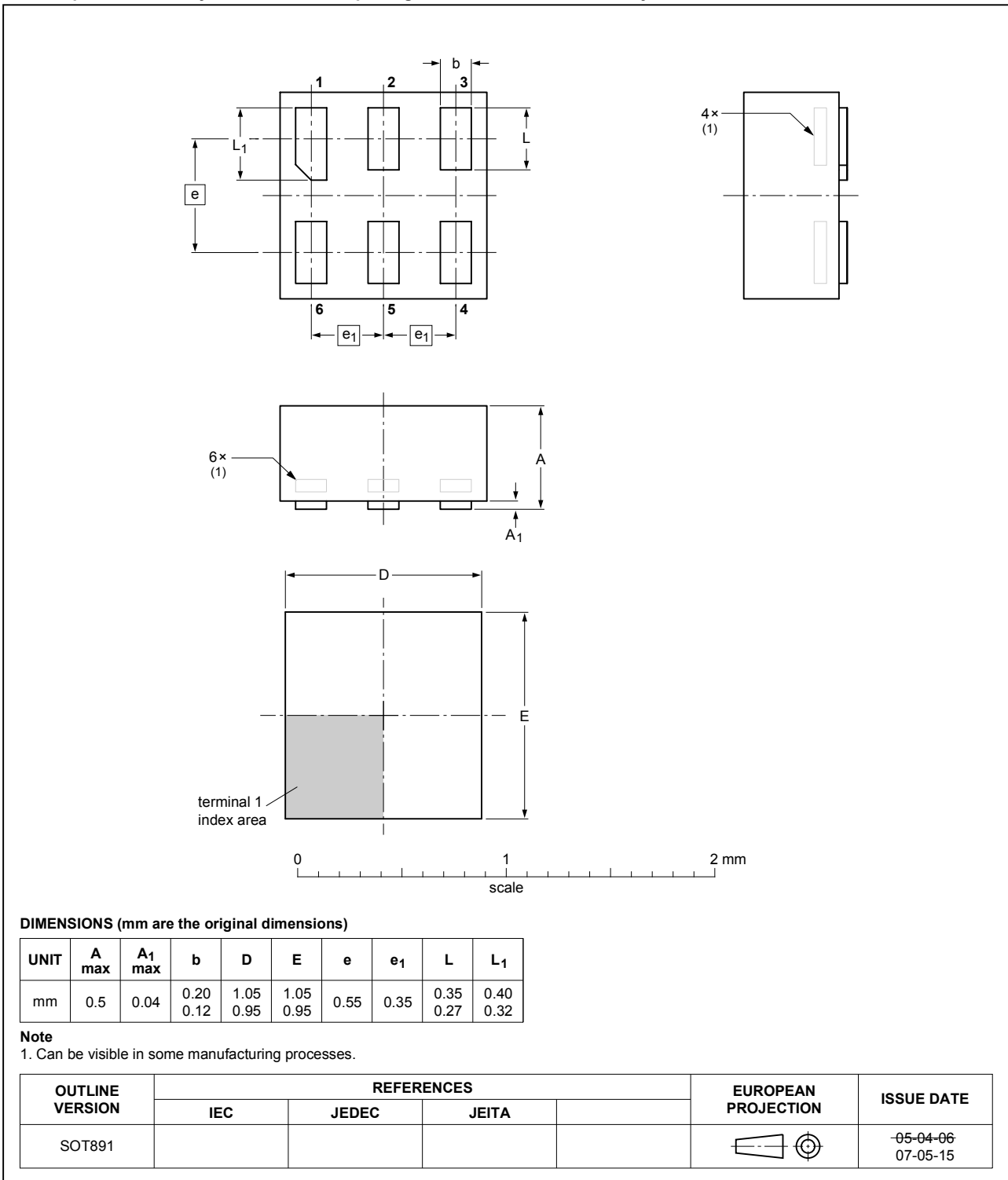


Fig. 23. Package outline SOT891 (XSON6)

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

SOT1115

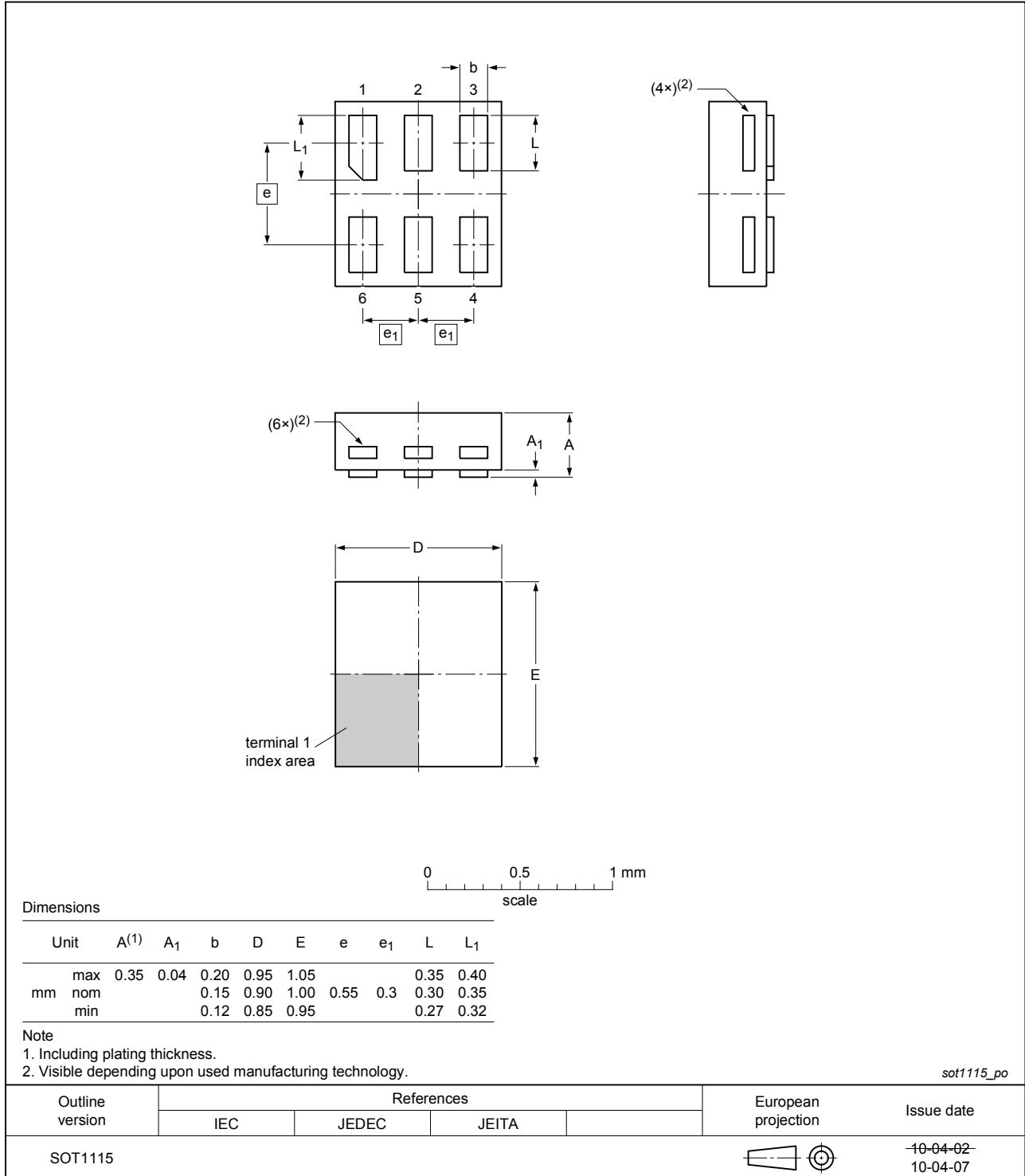


Fig. 24. Package outline SOT1115 (XSON6)

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

SOT1202

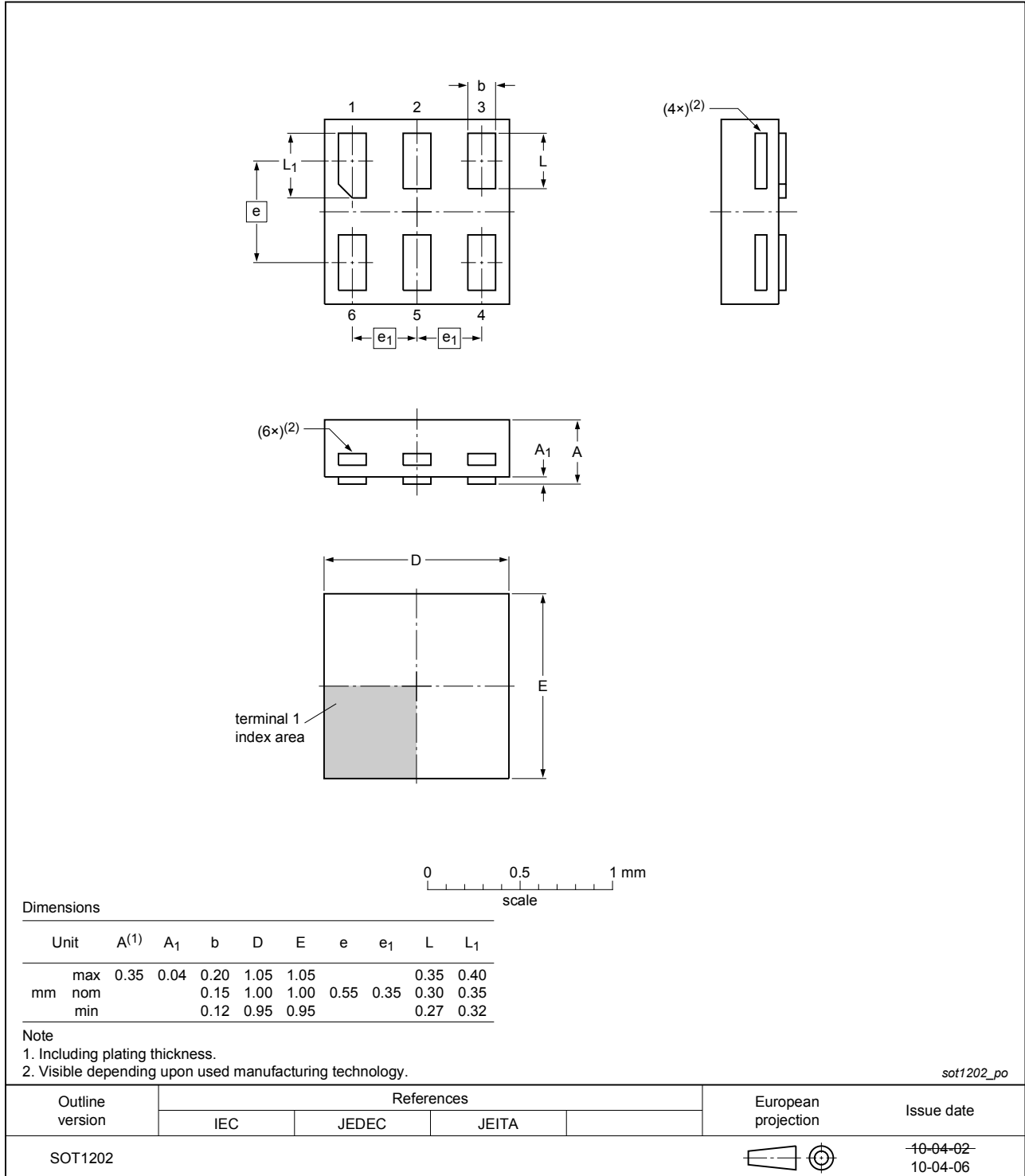


Fig. 25. Package outline SOT1202 (XSON6)

X2SON6: plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 x 0.8 x 0.35 mm

SOT1255

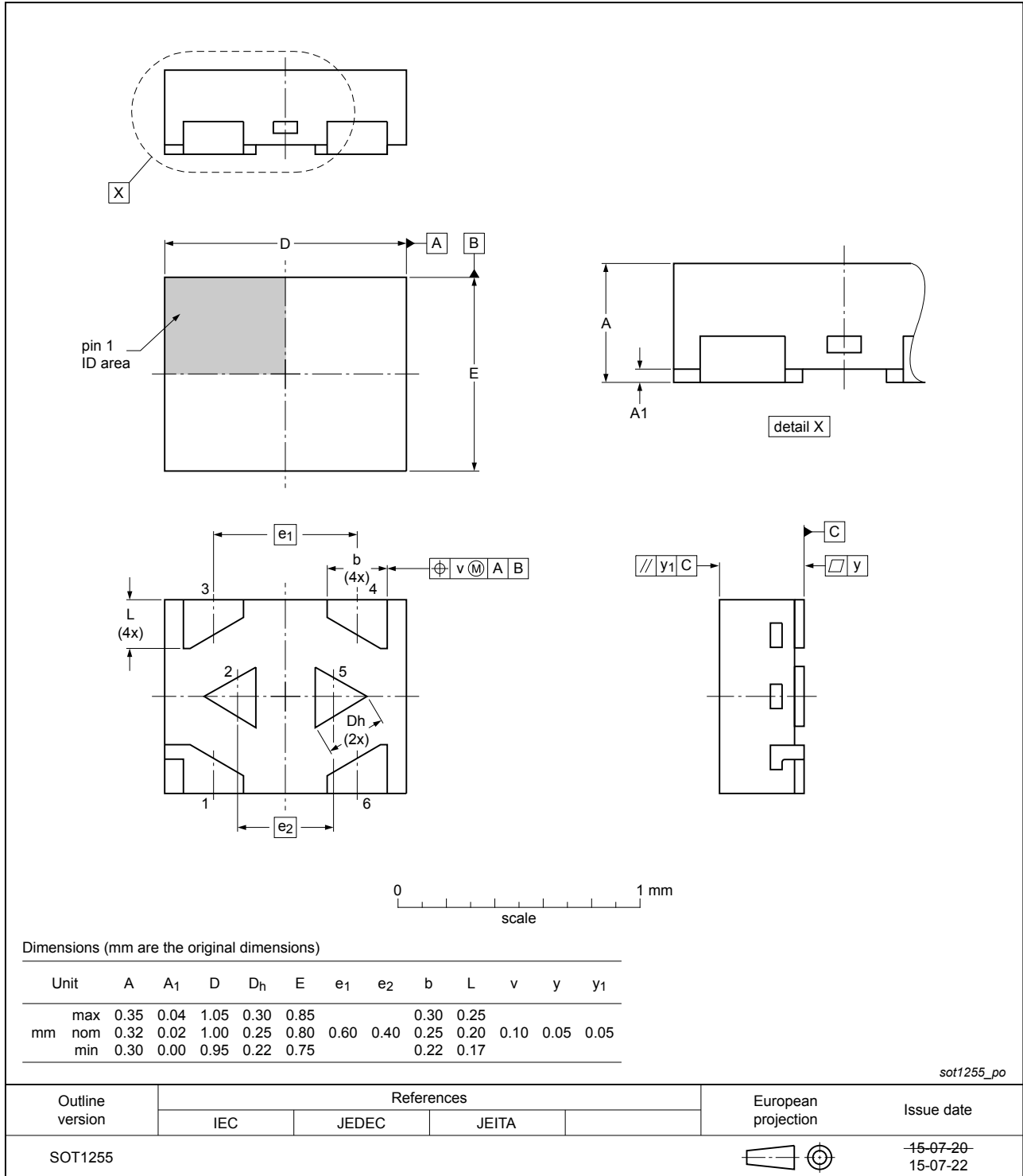


Fig. 26. Package outline SOT1255 (X2SON6)

## 14. Abbreviations

Table 13. Abbreviations

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

## 15. Revision history

Table 14. Revision history

| Document ID    | Release date  | Data sheet status  | Change notice | Supersedes    |
|----------------|---|--------------------|---------------|---------------|
| 74LVC1G97 v.6  | 20180808  | Product data sheet | -             | 74LVC1G97 v.5 |
| Modifications: | <ul style="list-style-type: none"> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> </ul> |                    |               |               |
| 74LVC1G97 v.5  | 20161212  | Product data sheet | -             | 74LVC1G97 v.4 |
| Modifications: | <ul style="list-style-type: none"> <li><a href="#">Table 8</a>: The maximum limits for leakage current and supply current have changed.</li> <li>•Type number 74LVC1G97GX (X2SON6/SOT1255) added.</li> </ul>                              |                    |               |               |
| 74LVC1G97 v.4  | 20140910  | Product data sheet | -             | 74LVC1G97 v.3 |
| Modifications: | <ul style="list-style-type: none"> <li>Package outline drawing of SOT886 (<a href="#">Fig. 22</a>) modified.</li> </ul>   |                    |               |               |
| 74LVC1G97 v.3  | 20111207  | Product data sheet | -             | 74LVC1G97 v.2 |
| 74LVC1G97 v.2  | 20110309  | Product data sheet | -             | 74LVC1G97 v.1 |
| 74LVC1G97 v.1  | 20101221  | Product data sheet | -             | -             |

## 16. 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.                                     |

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at <https://www.nexperia.com>.

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Date of release: 8 August 2018