

# 74LVC1G11

Single 3-input AND gate

Rev. 10 — 19 July 2017

Product data sheet

## 1 General description

The 74LVC1G11 provides a single 3-input AND gate.

The input can be driven from either 3.3 V or 5 V devices. This feature allows the use of this device in a mixed 3.3 V and 5 V environment.

Schmitt-trigger action at all inputs makes the circuit highly tolerant to slower input rise and fall time.

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

- Wide supply voltage range from 1.65 V to 5.5 V
- 5 V tolerant inputs 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)
  - JESD8-B/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
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- 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 |
| 74LVC1G11GW | $-40$ °C to $+125$ °C | SC-88 | plastic surface-mounted package; 6 leads         | SOT363  |
| 74LVC1G11GV | $-40$ °C to $+125$ °C | SC-74 | plastic surface-mounted package (TSOP6); 6 leads | SOT457  |

| Type number | Package           |        |                                                                                                     |         |
|-------------|-------------------|--------|-----------------------------------------------------------------------------------------------------|---------|
|             | Temperature range | Name   | Description                                                                                         | Version |
| 74LVC1G11GM | -40 °C to +125 °C | XSON6  | plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm         | SOT886  |
| 74LVC1G11GF | -40 °C to +125 °C | XSON6  | plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm            | SOT891  |
| 74LVC1G11GN | -40 °C to +125 °C | XSON6  | extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm               | SOT1115 |
| 74LVC1G11GS | -40 °C to +125 °C | XSON6  | extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm               | SOT1202 |
| 74LVC1G11GX | -40 °C to +125 °C | X2SON6 | plastic thermal extremely thin small outline package; no leads; 6 terminals; body 1 x 0.8 x 0.35 mm | SOT1255 |

4 Marking

Table 2. Marking

| Type number | Marking code <sup>[1]</sup> |
|-------------|-----------------------------|
| 74LVC1G11GW | VU                          |
| 74LVC1G11GV | V11                         |
| 74LVC1G11GM | VU                          |
| 74LVC1G11GF | VU                          |
| 74LVC1G11GN | VU                          |
| 74LVC1G11GS | VU                          |
| 74LVC1G11GX | VU                          |

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

5 Functional diagram

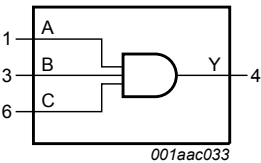


Figure 1. Logic symbol

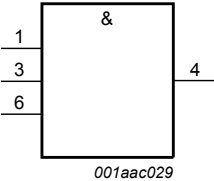


Figure 2. IEC logic symbol

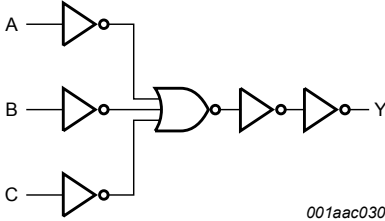
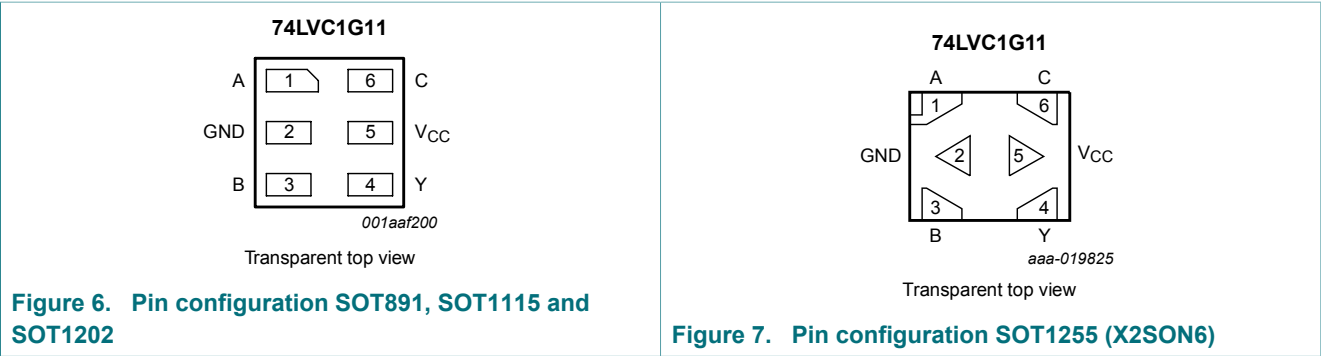
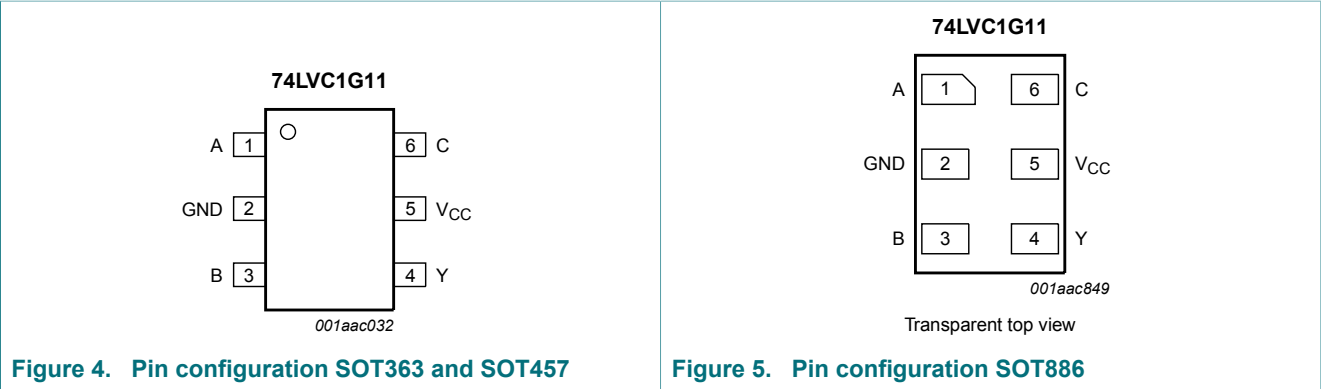


Figure 3. Logic diagram

6 Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

| Symbol          | Pin | Description    |
|-----------------|-----|----------------|
| A               | 1   | data input     |
| GND             | 2   | ground (0 V)   |
| B               | 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 <sup>[1]</sup>

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

[1] H = HIGH voltage level; L = LOW voltage level; X = don't care.

## 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   |
| $V_I$     | input voltage           | [1]                               | -0.5 | +6.5           | V    |
| $I_{OK}$  | output clamping current | $V_O > V_{CC}$ or $V_O < 0$ V     | -    | ±50            | mA   |
| $V_O$     | output voltage          | Active mode [1] [2]               | -0.5 | $V_{CC} + 0.5$ | V    |
|           |                         | Power-down mode [1] [2]           | -0.5 | +6.5           | V    |
| $I_O$     | 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 [3] | -    | 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.

[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 °C the value of  $P_{tot}$  derates linearly with 4.0 mW/K.  
For X2SON6 and XSON6 package: above 118 °C the value of  $P_{tot}$  derates linearly with 7.8 mW/K.

## 9 Recommended operating conditions

Table 6. 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    |
|                     |                                     | Power-down mode; $V_{CC} = 0$ V | 0    | -   | 5.5      | V    |
| $T_{amb}$           | ambient temperature                 |                                 | -40  | -   | +125     | °C   |
| $\Delta t/\Delta V$ | 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 |

## 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 <sup>[1]</sup> | Max          | Min               | Max          |      |
| $V_{IH}$ | HIGH-level input voltage  | $V_{CC} = 1.65$ V to 1.95 V                         | $0.65V_{CC}$     | -                  | -            | $0.65V_{CC}$      | -            | V    |
|          |                           | $V_{CC} = 2.3$ 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 voltage   | $V_{CC} = 1.65$ 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    |
|          |                           | $V_{CC} = 2.7$ 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 output voltage | $V_I = V_{IH}$ or $V_{IL}$                          |                  |                    |              |                   |              |      |
|          |                           | $I_O = -100$ $\mu$ A;<br>$V_{CC} = 1.65$ 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              | 1.54               | -            | 0.95              | -            | V    |
|          |                           | $I_O = -8$ mA; $V_{CC} = 2.3$ V                     | 1.9              | 2.15               | -            | 1.7               | -            | V    |
|          |                           | $I_O = -12$ mA; $V_{CC} = 2.7$ V                    | 2.2              | 2.50               | -            | 1.9               | -            | V    |
|          |                           | $I_O = -24$ mA; $V_{CC} = 3.0$ V                    | 2.3              | 2.62               | -            | 2.0               | -            | V    |
|          |                           | $I_O = -32$ mA; $V_{CC} = 4.5$ V                    | 3.8              | 4.11               | -            | 3.4               | -            | V    |

| Symbol           | Parameter                 | Conditions                                                                                                   | -40 °C to +85 °C |                    |      | -40 °C to +125 °C |      | Unit |
|------------------|---------------------------|--------------------------------------------------------------------------------------------------------------|------------------|--------------------|------|-------------------|------|------|
|                  |                           |                                                                                                              | Min              | Typ <sup>[1]</sup> | Max  | Min               | Max  |      |
| 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;<br>V <sub>CC</sub> = 1.65 V to 5.5 V                                                | -                | -                  | 0.10 | -                 | 0.10 | V    |
|                  |                           | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V                                                              | -                | 0.07               | 0.45 | -                 | 0.70 | V    |
|                  |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V                                                               | -                | 0.12               | 0.30 | -                 | 0.45 | V    |
|                  |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V                                                              | -                | 0.17               | 0.40 | -                 | 0.60 | V    |
|                  |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V                                                              | -                | 0.33               | 0.55 | -                 | 0.80 | V    |
|                  |                           | I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V                                                              | -                | 0.39               | 0.55 | -                 | 0.80 | V    |
| I <sub>I</sub>   | input leakage current     | V <sub>I</sub> = 5.5 V or GND;<br>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;<br>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;<br>V <sub>CC</sub> = 2.3 V to 5.5 V; per pin | -                | 5                  | 500  | -                 | 5 00 | µA   |
| C <sub>I</sub>   | input capacitance         | V <sub>CC</sub> = 3.3 V; V <sub>I</sub> = GND to V <sub>CC</sub>                                             | -                | 4                  | -    | -                 | -    | pF   |

[1] All typical values are measured at 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 Figure 9.

| Symbol          | Parameter                     | Conditions                                                                       | -40 °C to +85 °C |                    |      | -40 °C to +125 °C |      | Unit |
|-----------------|-------------------------------|----------------------------------------------------------------------------------|------------------|--------------------|------|-------------------|------|------|
|                 |                               |                                                                                  | Min              | Typ <sup>[1]</sup> | Max  | Min               | Max  |      |
| t <sub>pd</sub> | propagation delay             | A, B and C to Y; see Figure 8 <sup>[2]</sup>                                     |                  |                    |      |                   |      |      |
|                 |                               | V <sub>CC</sub> = 1.65 V to 1.95 V                                               | 1.5              | 4.7                | 17.2 | 1.5               | 21.5 | ns   |
|                 |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                                                 | 1.0              | 3.0                | 6.2  | 1.0               | 7.8  | ns   |
|                 |                               | V <sub>CC</sub> = 2.7 V                                                          | 1.0              | 3.0                | 6.0  | 1.0               | 7.5  | ns   |
|                 |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                                                 | 1.0              | 2.6                | 4.9  | 1.0               | 6.2  | ns   |
|                 |                               | V <sub>CC</sub> = 4.5 V to 5.5 V                                                 | 1.0              | 1.9                | 3.5  | 1.0               | 4.4  | 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 <sup>[3]</sup> | -                | 13                 | -    | -                 | -    | 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).  
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$  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;  
Σ(C<sub>L</sub> x V<sub>CC</sub><sup>2</sup> x f<sub>o</sub>) = sum of the outputs.

11.1 Waveform and test circuit

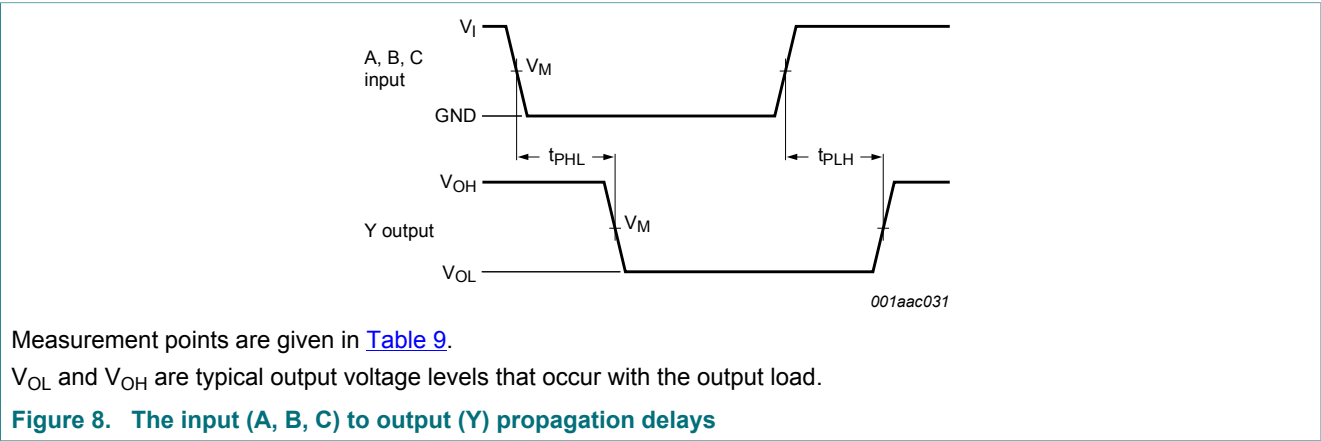
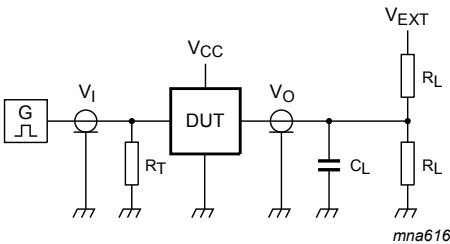


Table 9. Measurement points

| 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.

Figure 9. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage   | Input           | Load                            |                |                | V <sub>EXT</sub>                    |
|------------------|-----------------|---------------------------------|----------------|----------------|-------------------------------------|
| V <sub>CC</sub>  | V <sub>I</sub>  | t <sub>r</sub> = t <sub>f</sub> | C <sub>L</sub> | R <sub>L</sub> | t <sub>PLH</sub> , t <sub>PHL</sub> |
| 1.65 V to 1.95 V | V <sub>CC</sub> | ≤ 2.0 ns                        | 30 pF          | 1 kΩ           | open                                |
| 2.3 V to 2.7 V   | V <sub>CC</sub> | ≤ 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 <sub>CC</sub> | ≤ 2.5 ns                        | 50 pF          | 500 Ω          | open                                |

12 Package outline

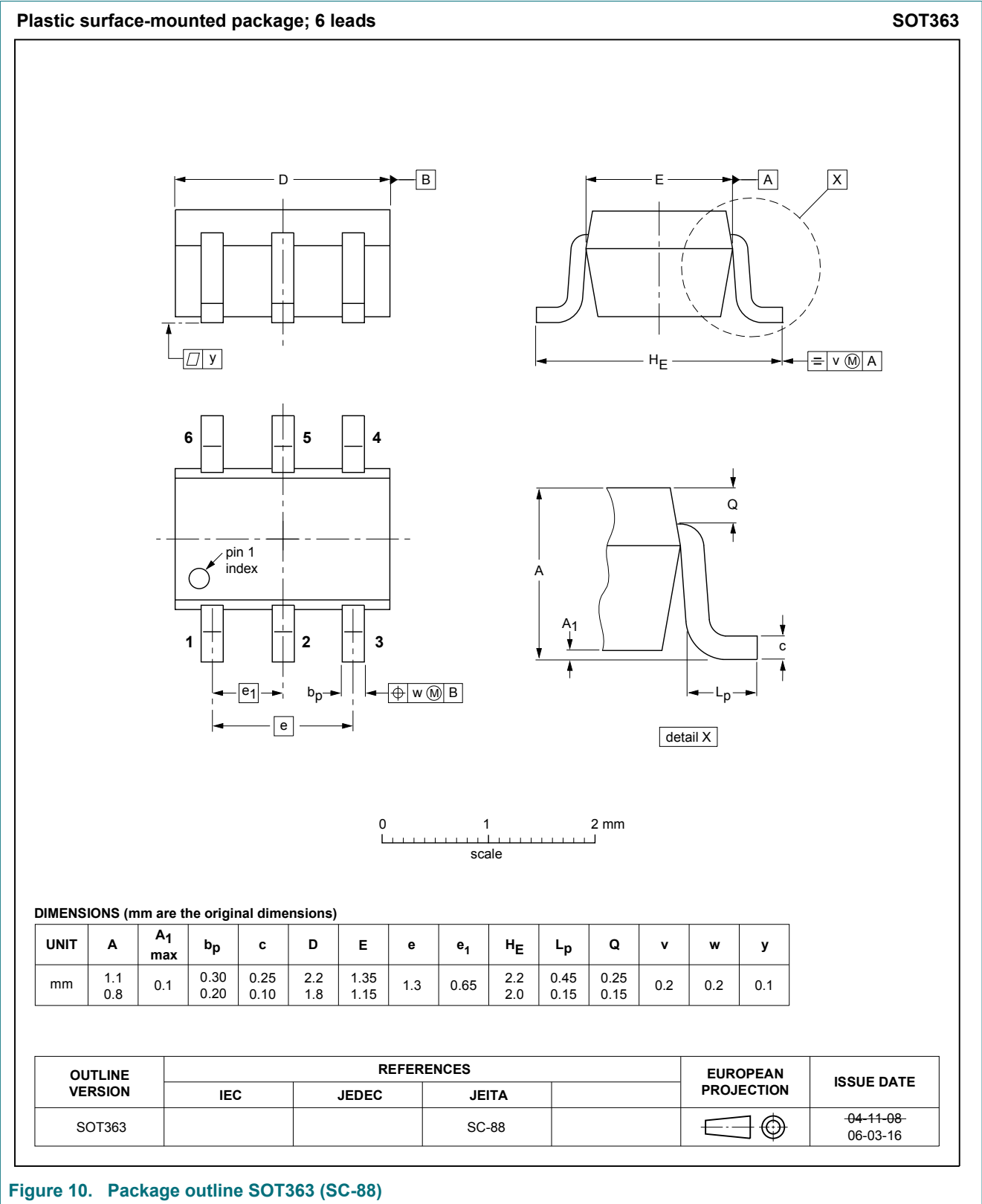
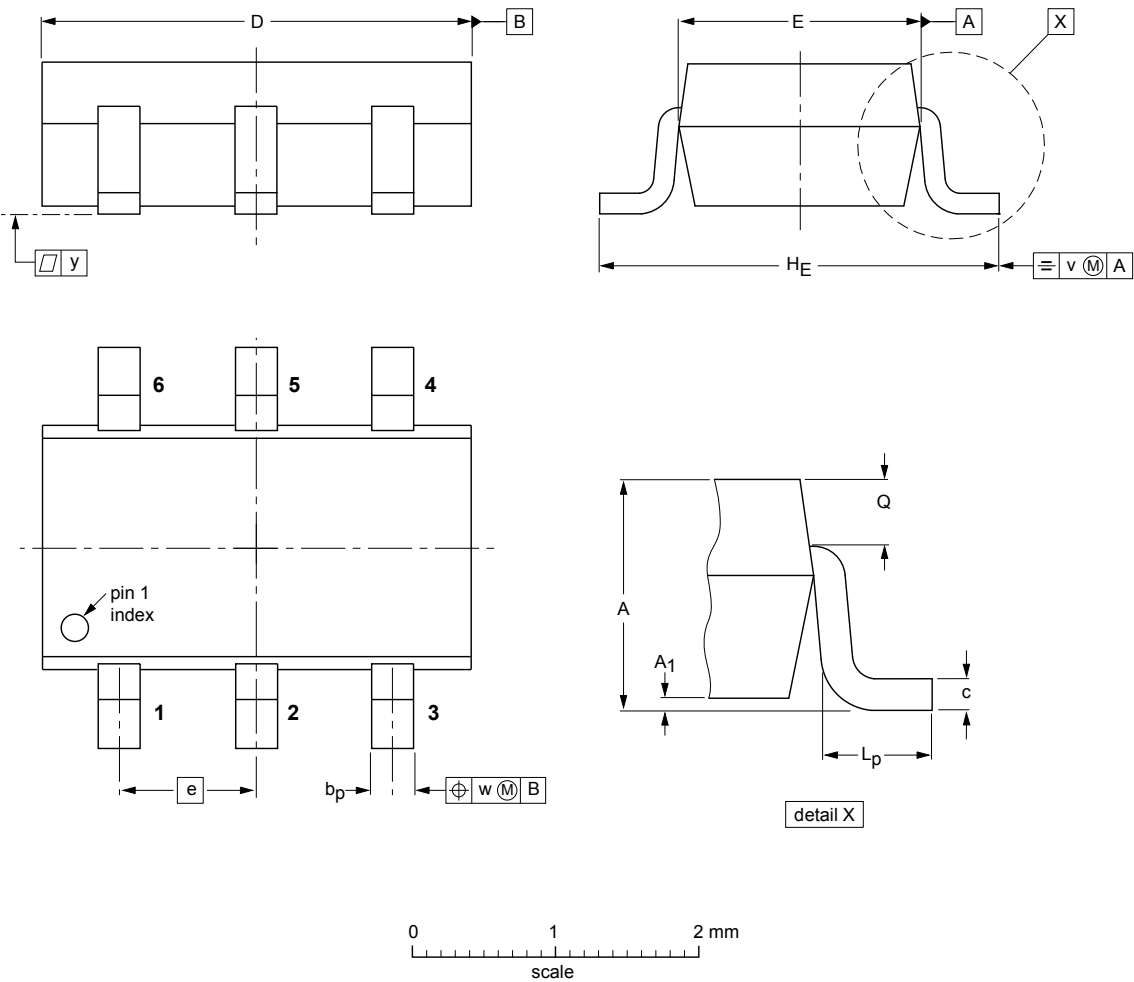


Figure 10. Package outline SOT363 (SC-88)

Plastic surface-mounted package (TSOP6); 6 leads

SOT457



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 | 0.1<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 |  |                        |                        |
| SOT457             |            |       | SC-74 |  |                        | -05-11-07-<br>06-03-16 |

Figure 11. 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

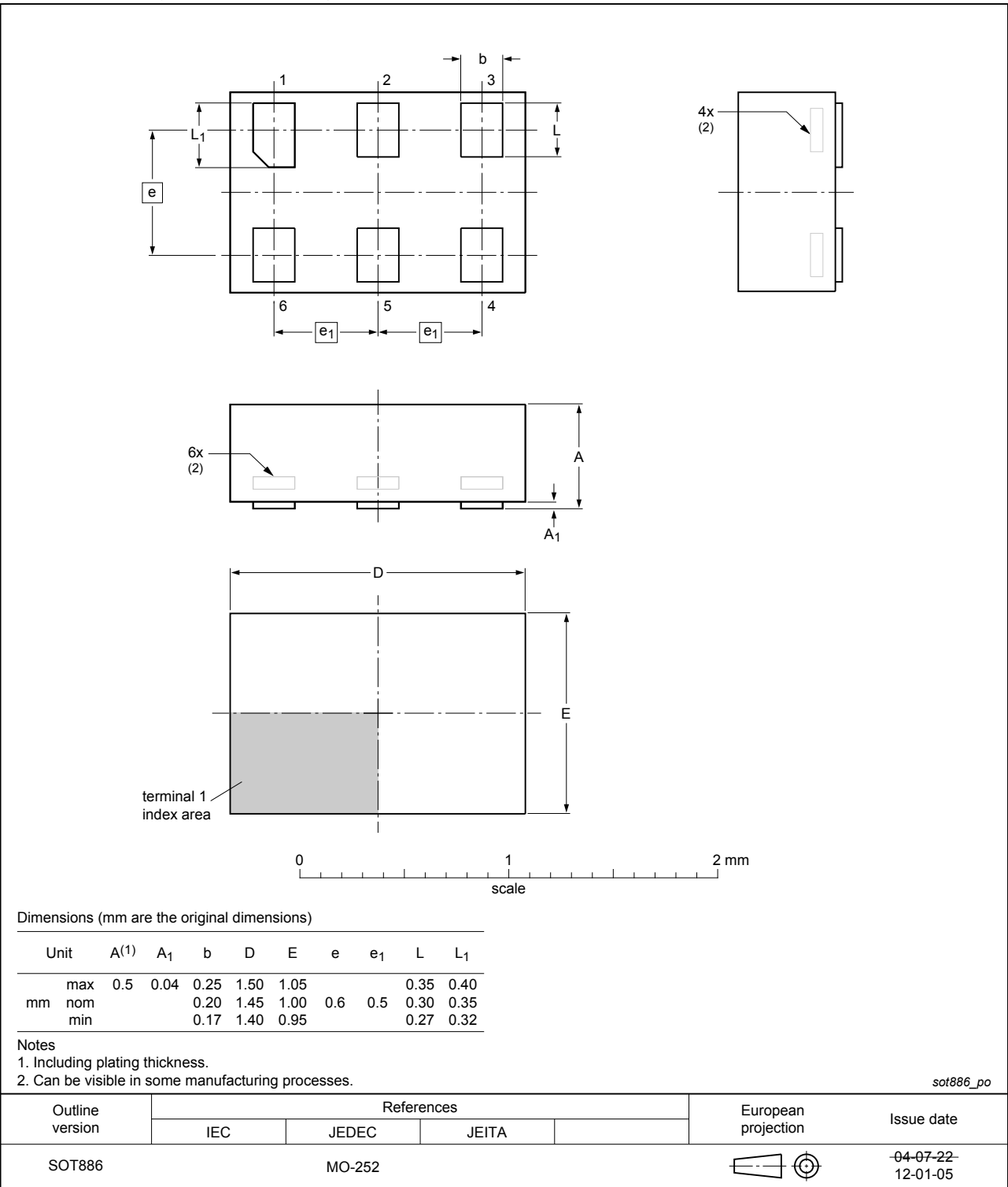
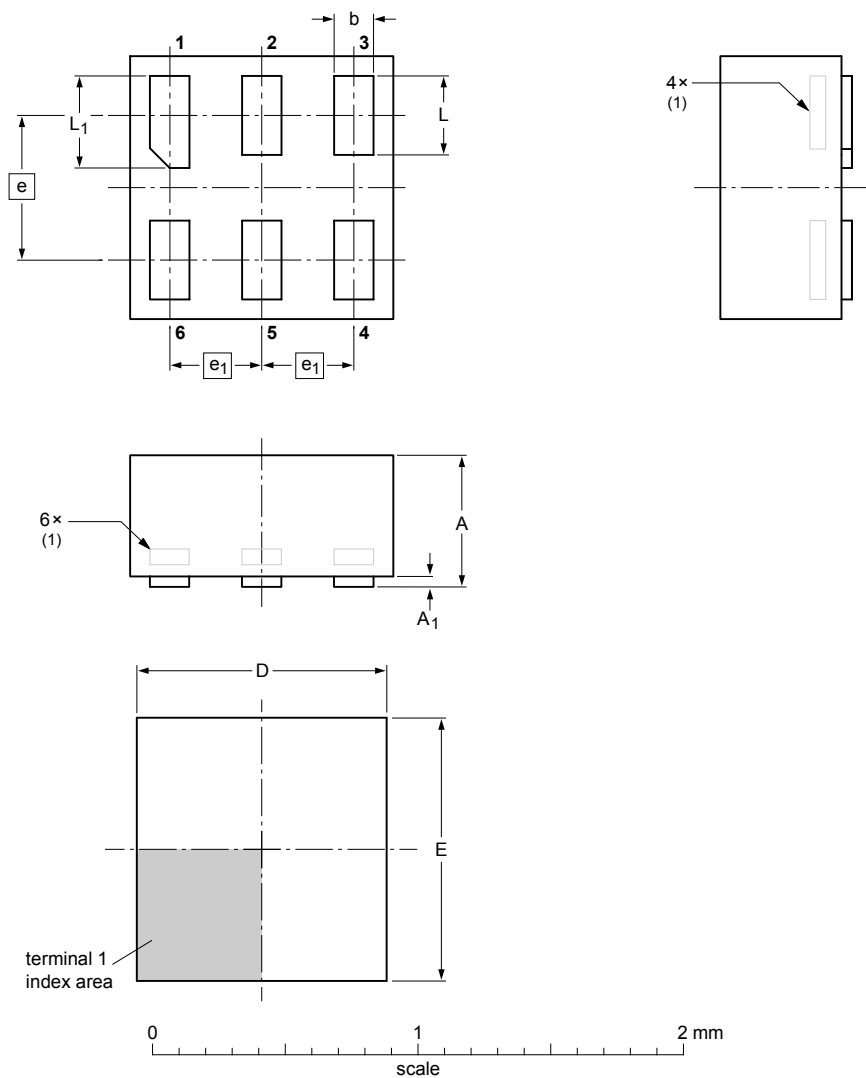


Figure 12. Package outline SOT886 (XSON6)

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

SOT891



DIMENSIONS (mm are the original dimensions)

| UNIT | A<br>max | A <sub>1</sub><br>max | b            | D            | E            | e    | e <sub>1</sub> | L            | L <sub>1</sub> |
|------|----------|-----------------------|--------------|--------------|--------------|------|----------------|--------------|----------------|
| mm   | 0.5      | 0.04                  | 0.20<br>0.12 | 1.05<br>0.95 | 1.05<br>0.95 | 0.55 | 0.35           | 0.35<br>0.27 | 0.40<br>0.32   |

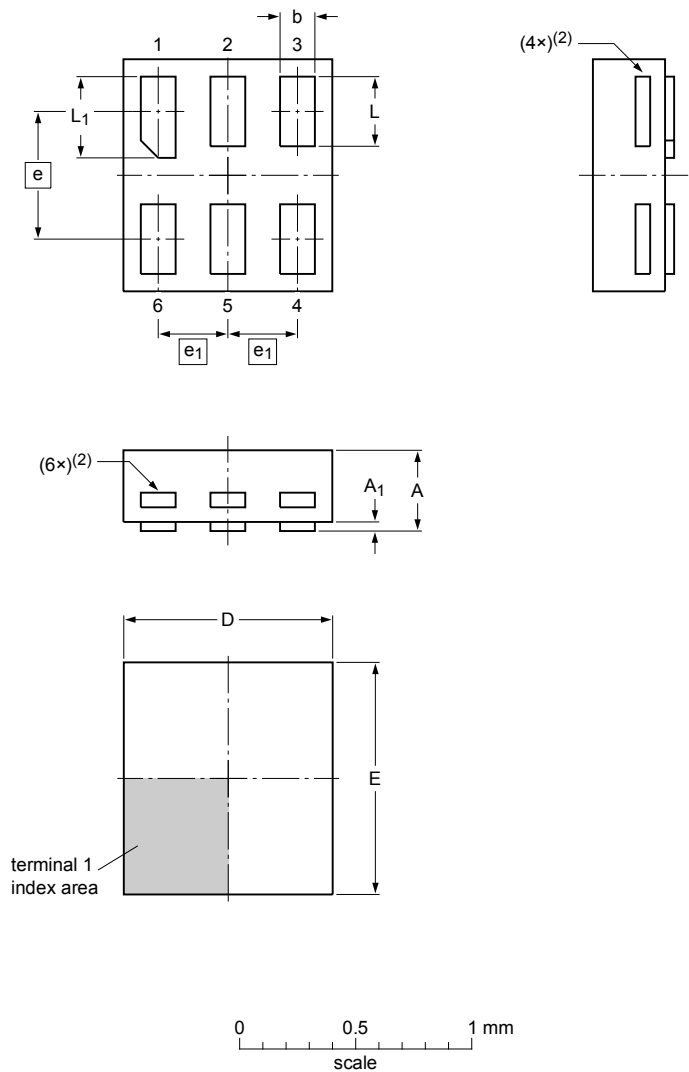
Note  
1. Can be visible in some manufacturing processes.

| OUTLINE<br>VERSION | REFERENCES |       |       |  | EUROPEAN<br>PROJECTION | ISSUE DATE           |
|--------------------|------------|-------|-------|--|------------------------|----------------------|
|                    | IEC        | JEDEC | JEITA |  |                        |                      |
| SOT891             |            |       |       |  |                        | 05-04-06<br>07-05-15 |

Figure 13. 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



Dimensions

| Unit | A <sup>(1)</sup> | A <sub>1</sub> | b    | D    | E    | e    | e <sub>1</sub> | L    | L <sub>1</sub> |
|------|------------------|----------------|------|------|------|------|----------------|------|----------------|
| mm   | max              | 0.35           | 0.04 | 0.20 | 0.95 | 1.05 |                | 0.35 | 0.40           |
|      | nom              |                |      | 0.15 | 0.90 | 1.00 | 0.55           | 0.30 | 0.35           |
|      | min              |                |      | 0.12 | 0.85 | 0.95 |                | 0.27 | 0.32           |

Note

- 1. Including plating thickness.
- 2. Visible depending upon used manufacturing technology.

sot1115\_po

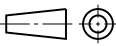
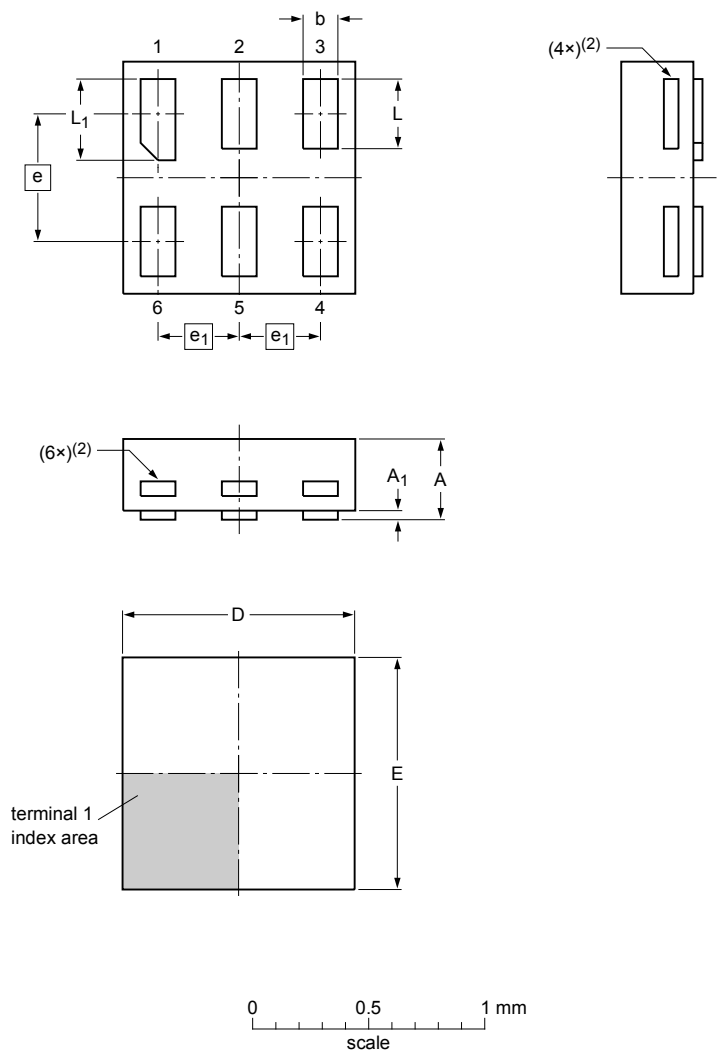
| Outline version | References |       |       |  | European projection                                                                   | Issue date            |
|-----------------|------------|-------|-------|--|---------------------------------------------------------------------------------------|-----------------------|
|                 | IEC        | JEDEC | JEITA |  |                                                                                       |                       |
| SOT1115         |            |       |       |  |  | 10-04-02-<br>10-04-07 |

Figure 14. 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



Dimensions

| Unit | A <sup>(1)</sup> | A <sub>1</sub> | b    | D    | E    | e    | e <sub>1</sub> | L    | L <sub>1</sub> |
|------|------------------|----------------|------|------|------|------|----------------|------|----------------|
| mm   | max              | 0.35           | 0.04 | 0.20 | 1.05 | 1.05 |                | 0.35 | 0.40           |
|      | nom              |                |      | 0.15 | 1.00 | 1.00 | 0.55           | 0.30 | 0.35           |
|      | min              |                |      | 0.12 | 0.95 | 0.95 |                | 0.27 | 0.32           |

Note

1. Including plating thickness.
2. Visible depending upon used manufacturing technology.

sot1202\_po

| Outline version | References |       |       |  | European projection                                                                   | Issue date             |
|-----------------|------------|-------|-------|--|---------------------------------------------------------------------------------------|------------------------|
|                 | IEC        | JEDEC | JEITA |  |                                                                                       |                        |
| SOT1202         |            |       |       |  |  | -10-04-02-<br>10-04-06 |

Figure 15. Package outline SOT1202 (XSON6)

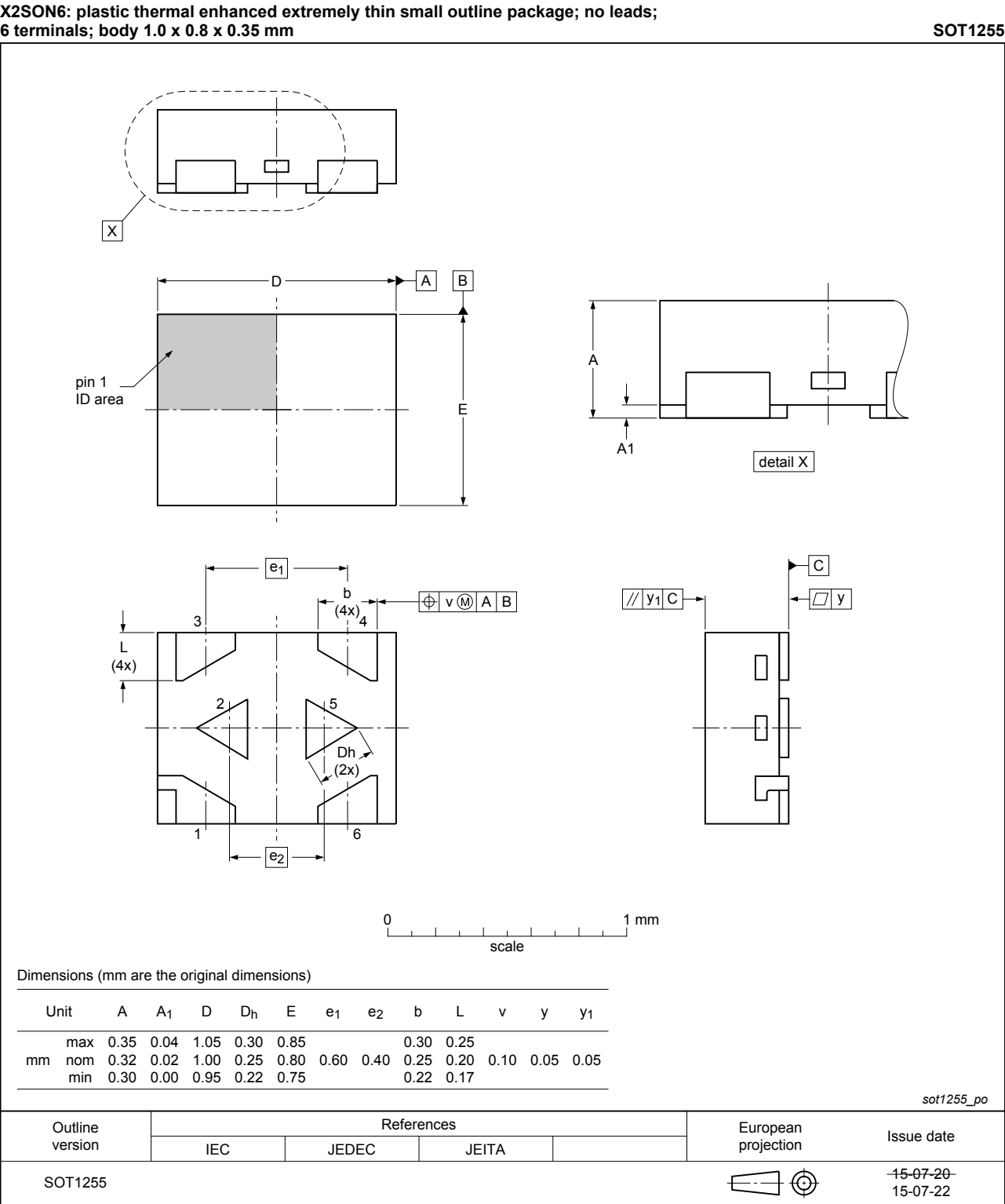


Figure 16. Package outline SOT1255 (X2SON6)

## 13 Abbreviations

Table 11. Abbreviations

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

## 14 Revision history

Table 12. Revision history

| Document ID    | Release date                                                                                                                                                                                                                              | Data sheet status  | Change notice | Supersedes    |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|---------------|
| 74LVC1G11 v.10 | 20170719                                                                                                                                                                                                                                  | Product data sheet | -             | 74LVC1G11 v.9 |
| 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> |                    |               |               |
| 74LVC1G11 v.9  | 20161128                                                                                                                                                                                                                                  | Product data sheet | -             | 74LVC1G11 v.8 |
| Modifications: | <ul style="list-style-type: none"> <li><a href="#">Table 7</a>: The maximum limits for leakage current and supply current have changed.</li> </ul>                                                                                        |                    |               |               |
| 74LVC1G11 v.8  | 20150917                                                                                                                                                                                                                                  | Product data sheet | -             | 74LVC1G11 v.7 |
| Modifications: | <ul style="list-style-type: none"> <li>Added type number 74LVC1G11GX (SOT1255/X2SON6).</li> </ul>                                                                                                                                         |                    |               |               |
| 74LVC1G11 v.7  | 20120704                                                                                                                                                                                                                                  | Product data sheet | -             | 74LVC1G11 v.6 |
| Modifications: | <ul style="list-style-type: none"> <li>Package outline drawing of SOT886 (<a href="#">Figure 12</a>) modified.</li> </ul>                                                                                                                 |                    |               |               |
| 74LVC1G11 v.6  | 20111209                                                                                                                                                                                                                                  | Product data sheet | -             | 74LVC1G11 v.5 |
| Modifications: | <ul style="list-style-type: none"> <li>Legal pages updated.</li> </ul>                                                                                                                                                                    |                    |               |               |
| 74LVC1G11 v.5  | 20100730                                                                                                                                                                                                                                  | Product data sheet | -             | 74LVC1G11 v.4 |
| 74LVC1G11 v.4  | 20070801                                                                                                                                                                                                                                  | Product data sheet | -             | 74LVC1G11 v.3 |
| 74LVC1G11 v.3  | 20060906                                                                                                                                                                                                                                  | Product data sheet | -             | 74LVC1G11 v.2 |
| 74LVC1G11 v.2  | 20050503                                                                                                                                                                                                                                  | Product data sheet | -             | 74LVC1G11 v.1 |
| 74LVC1G11 v.1  | 20041130                                                                                                                                                                                                                                  | Product data sheet | -             | -             |

## 15 Legal information

### 15.1 Data sheet status

| Document status <sup>[1][2]</sup> | Product status <sup>[3]</sup> | 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".

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