

# 74LVC2G34

Dual buffer gate

Rev. 10 — 23 February 2018

Product data sheet

## 1 General description

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The 74LVC2G34 provides two buffers.

Inputs can be driven from either 3.3 V or 5 V devices. These features allow the use of these devices in a mixed 3.3 V and 5 V environment.

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 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)
  - JESD8B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2 000 V
  - MM JESD22-A115-A exceeds 200 V
- $\pm 24$  mA output drive ( $V_{CC} = 3.0$  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           |        |   | Version |
|-------------|-------------------|--------|---|---------|
|             | Temperature range | Name   | Description   |         |
| 74LVC2G34GW | -40 °C to +125 °C | SC-88  | plastic surface-mounted package; 6 leads  | SOT363  |
| 74LVC2G34GV | -40 °C to +125 °C | TSOP6  | plastic surface-mounted package (TSOP6); 6 leads  | SOT457  |
| 74LVC2G34GM | -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  |
| 74LVC2G34GF | -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  |
| 74LVC2G34GN | -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 |
| 74LVC2G34GS | -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 |
| 74LVC2G34GX | -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> |
|-------------|-----------------------------|
| 74LVC2G34GW | YA                          |
| 74LVC2G34GV | Y34                         |
| 74LVC2G34GM | YA                          |
| 74LVC2G34GF | YA                          |
| 74LVC2G34GN | YA                          |
| 74LVC2G34GS | YA                          |
| 74LVC2G34GX | YA                          |

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

### 5 Functional diagram

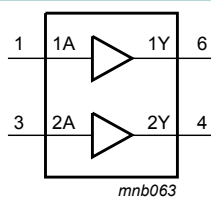


Figure 1. Logic symbol

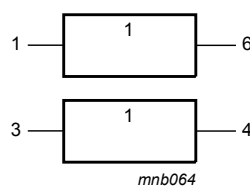


Figure 2. IEC logic symbol

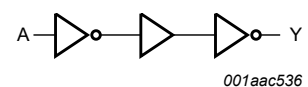


Figure 3. Logic diagram (one gate)

## 6 Pinning information

### 6.1 Pinning

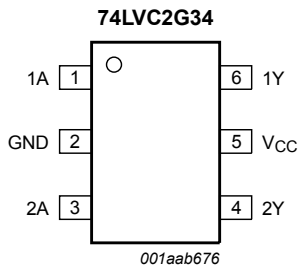


Figure 4. Pin configuration SOT363 and SOT457

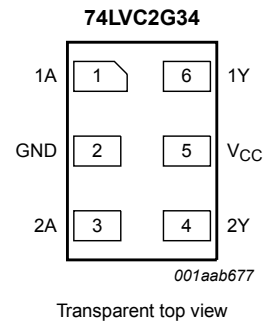


Figure 5. Pin configuration SOT886

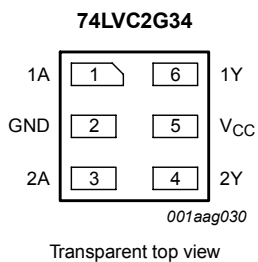


Figure 6. Pin configuration SOT891, SOT1115 and SOT1202

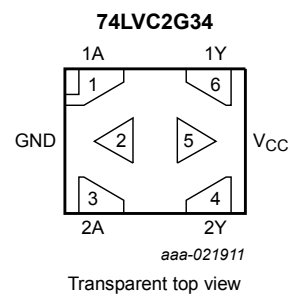


Figure 7. Pin configuration SOT1255 (X2SON6)

### 6.2 Pin description

Table 3. Pin description

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

## 7 Functional description

**Table 4. Function table**

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

| Input | Output |
|-------|--------|
| nA    | nY     |
| L     | L      |
| H     | H      |

## 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       | -    | $\pm 50$       | 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 $V_{CC}$             | -    | $\pm 50$       | 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-74A packages: above 87.5 °C the value of  $P_{tot}$  derates linearly with 4.0 mW/K.

For X2SON6 and XSON6 packages: 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 <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    |
| 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      | -                     | -                  | 0.10                | -                     | 0.10                | 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                  | -                     | -                  | 0.30                | -                     | 0.45                | V    |
|                 |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V                 | -                     | -                  | 0.40                | -                     | 0.60                | V    |
|                 |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 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   |
|                 |                           | V <sub>CC</sub> = 0 V; V <sub>I</sub> or V <sub>O</sub> = 5.5 V | -                     | ±0.1               | ±2                  | -                     | ±2                  | µA   |
|                 |                           |   | -                     | 0.1                | 4                   | -                     | 4                   | µA   |
|                 |                           |   | -                     | 5                  | 500                 | -                     | 500                 | µA   |
|                 |                           |   | -                     | 2.5                | -                   | -                     | -                   | 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 [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             | nA to nY; see <a href="#">Figure 8</a> <sup>[2]</sup>                            |                  |                    |     |                   |      |      |
|                 |                               | V <sub>CC</sub> = 1.65 V to 1.95 V   | 1.0              | 3.8                | 8.6 | 1.0               | 10.8 | ns   |
|                 |                               | V <sub>CC</sub> = 2.3 V to 2.7 V   | 0.5              | 2.4                | 4.4 | 0.5               | 5.5  | ns   |
|                 |                               | V <sub>CC</sub> = 2.7 V  | 0.5              | 2.5                | 5.0 | 0.5               | 6.3  | ns   |
|                 |                               | V <sub>CC</sub> = 3.0 V to 3.6 V   | 0.5              | 2.2                | 4.1 | 0.5               | 5.1  | ns   |
|                 |                               | V <sub>CC</sub> = 4.5 V to 5.5 V   | 0.5              | 1.9                | 3.2 | 0.5               | 4.0  | 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> | -                | 20                 | -   | -                 | -    | 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).

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

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;

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

### 11.1 Waveform and test circuit

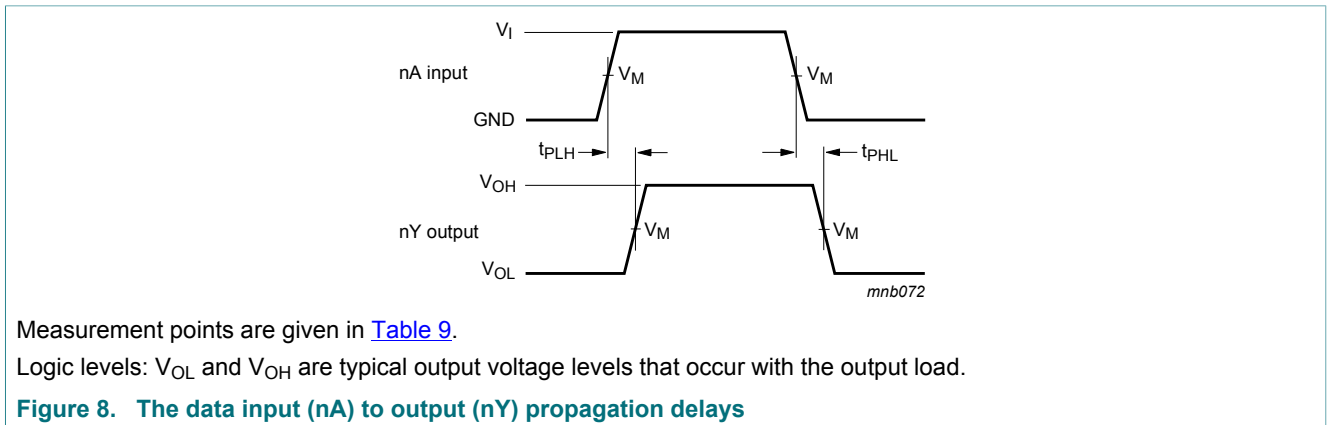
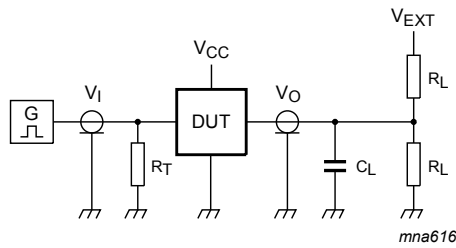


Table 9. Measurement points

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



Test data is given in [Table 10](#).

Definitions for test circuit:

$R_L$  = Load resistance.

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

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

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

Figure 9. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage   | Input    |               | Load  |              | $V_{EXT}$          |
|------------------|----------|---------------|-------|--------------|--------------------|
|                  | $V_I$    | $t_r = t_f$   | $C_L$ | $R_L$        | $t_{PLH}, t_{PHL}$ |
| 1.65 V to 1.95 V | $V_{CC}$ | $\leq 2.0$ ns | 30 pF | 1 k $\Omega$ | open               |
| 2.3 V 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 Package outline

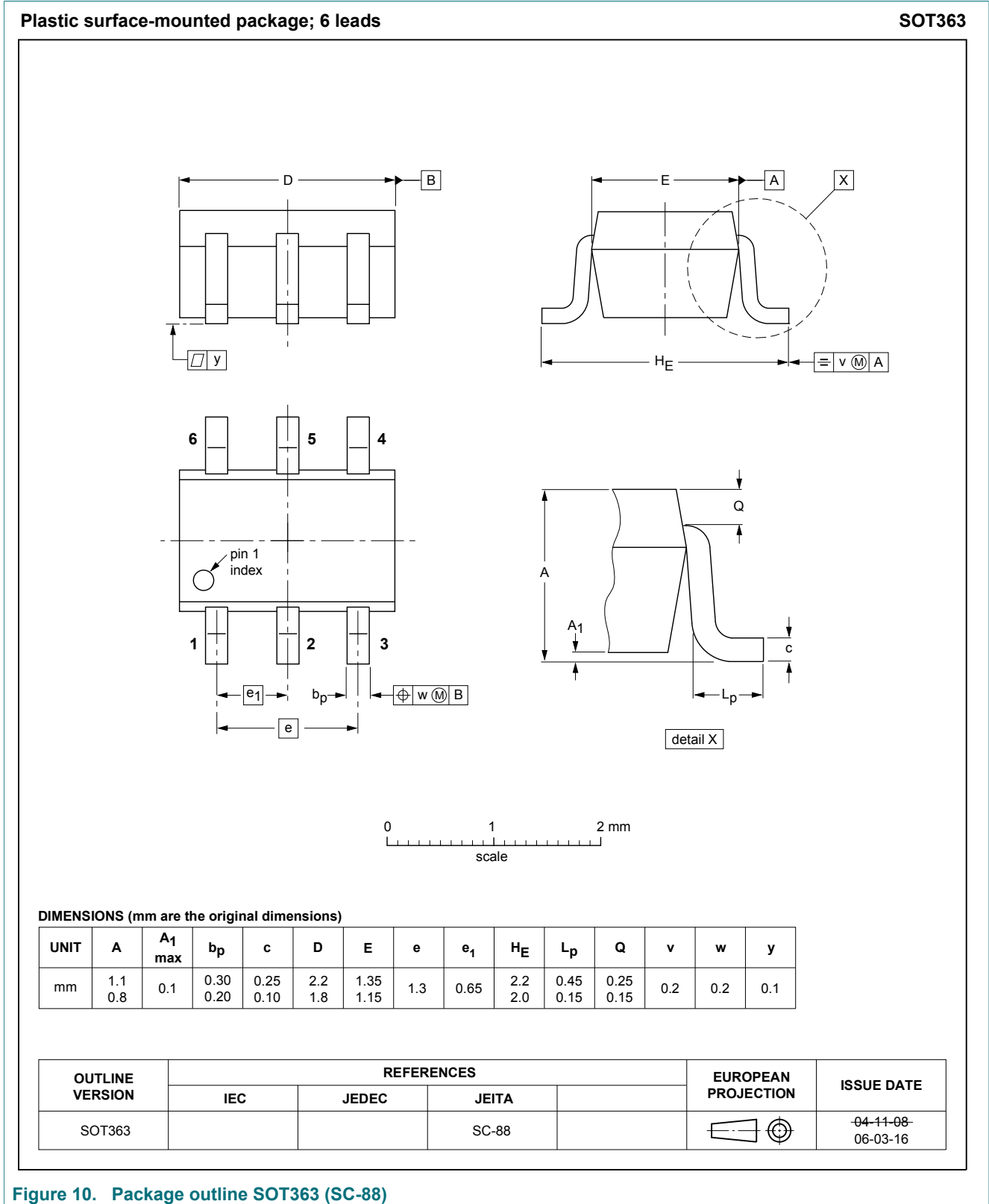
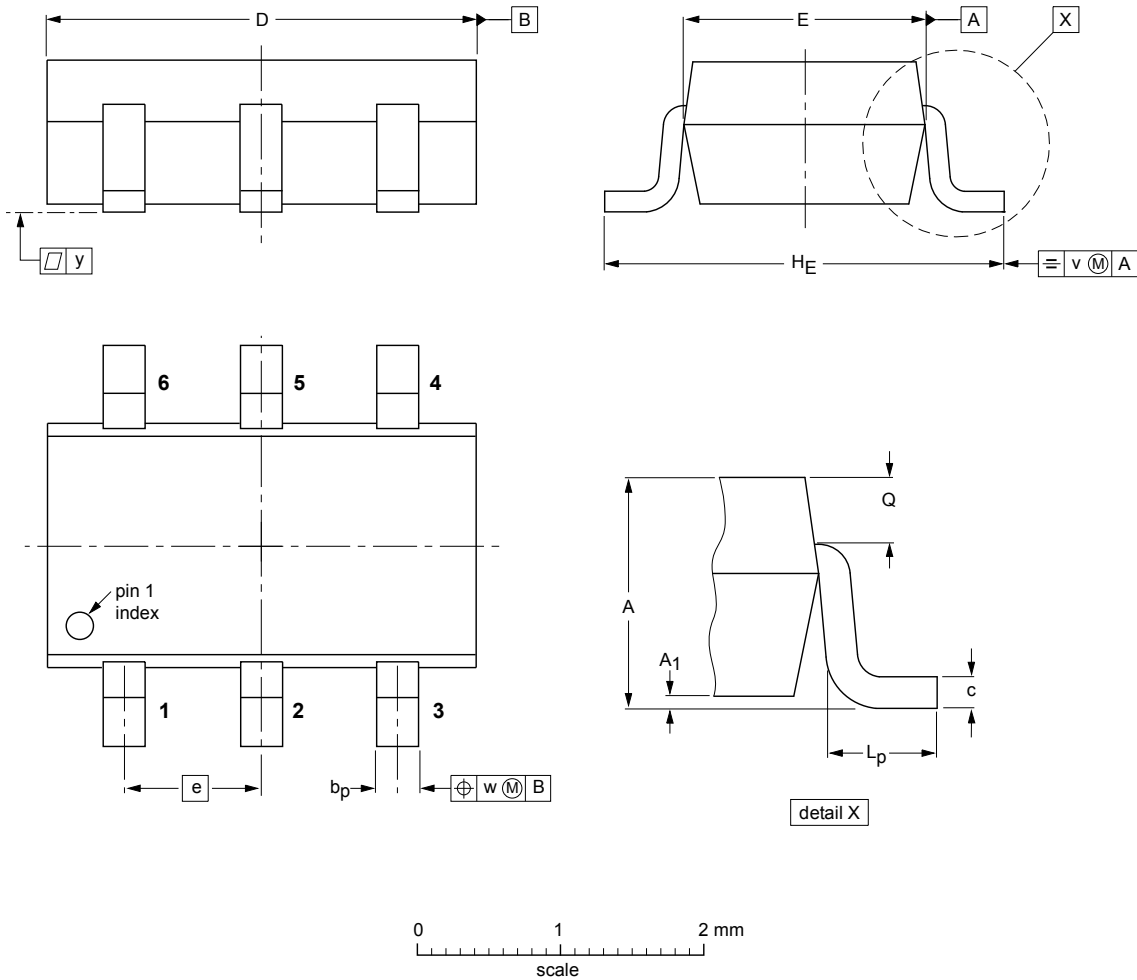


Figure 10. Package outline SOT363 (SC-88)



Plastic surface-mounted package (TSOP6); 6 leads

SOT457



**DIMENSIONS (mm are the original dimensions)**

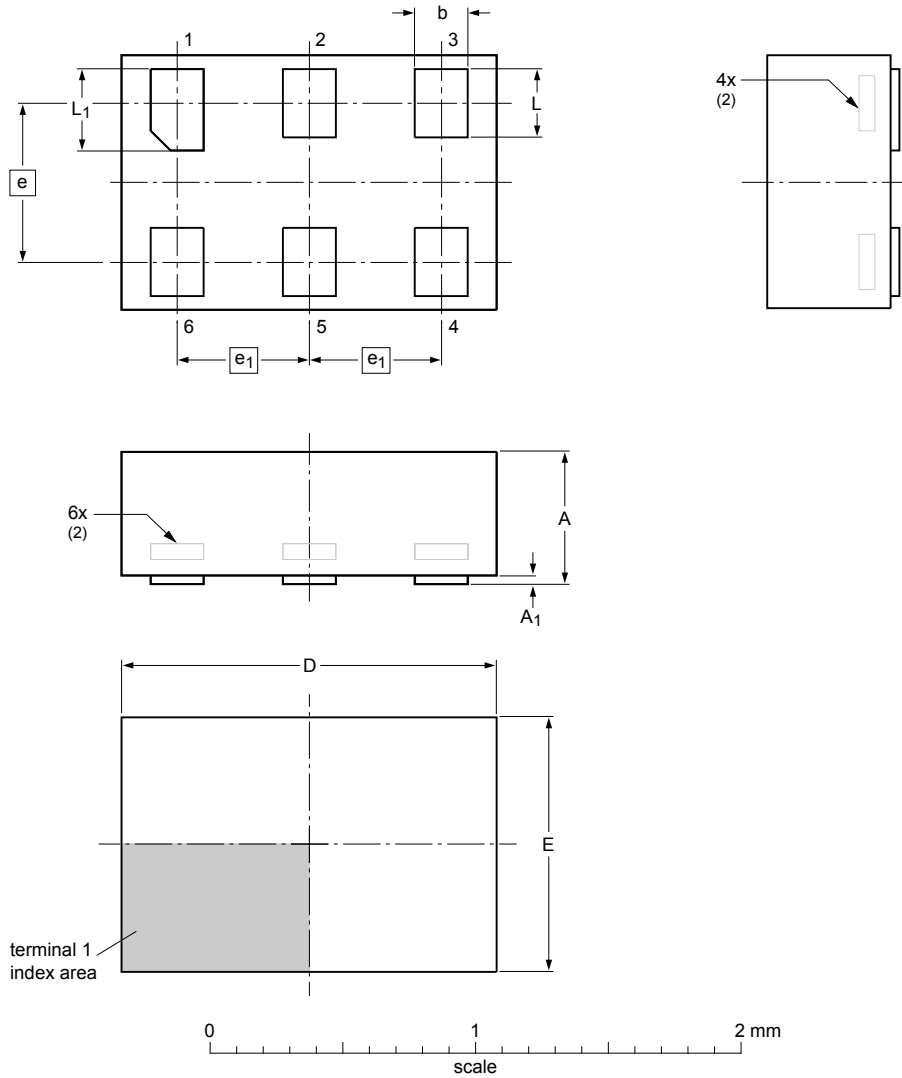
| UNIT | A          | A <sub>1</sub> | b <sub>p</sub> | c            | D          | E          | e    | H <sub>E</sub> | L <sub>p</sub> | Q            | v   | w   | y   |
|------|------------|----------------|----------------|--------------|------------|------------|------|----------------|----------------|--------------|-----|-----|-----|
| 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 VERSION | REFERENCES |       |       | EUROPEAN PROJECTION | ISSUE DATE             |
|-----------------|------------|-------|-------|---------------------|------------------------|
|                 | IEC        | JEDEC | JEITA |                     |                        |
| SOT457          |            |       | SC-74 |                     | -05-11-07-<br>06-03-16 |

Figure 11. Package outline SOT457 (TSOP6)

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

SOT886



Dimensions (mm are the original dimensions)

| Unit | A <sup>(1)</sup> | A <sub>1</sub> | b    | D    | E    | e   | e <sub>1</sub> | L    | L <sub>1</sub> |
|------|------------------|----------------|------|------|------|-----|----------------|------|----------------|
| max  | 0.5              | 0.04           | 0.25 | 1.50 | 1.05 |     |                | 0.35 | 0.40           |
| nom  |                  |                | 0.20 | 1.45 | 1.00 | 0.6 | 0.5            | 0.30 | 0.35           |
| min  |                  |                | 0.17 | 1.40 | 0.95 |     |                | 0.27 | 0.32           |

Notes

- 1. Including plating thickness.
- 2. Can be visible in some manufacturing processes.

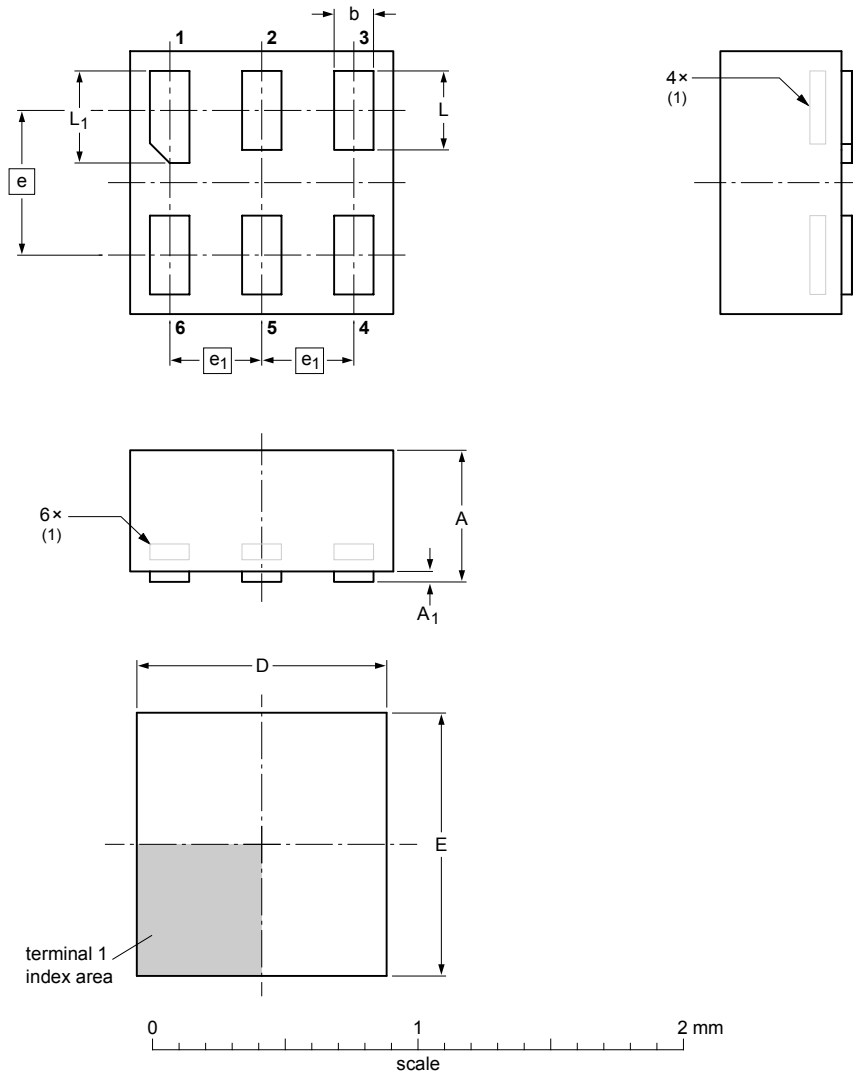
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| Outline version | References |        |       |  | European projection | Issue date           |
|-----------------|------------|--------|-------|--|---------------------|----------------------|
|                 | IEC        | JEDEC  | JEITA |  |                     |                      |
| SOT886          |            | MO-252 |       |  |                     | 04-07-22<br>12-01-05 |

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**

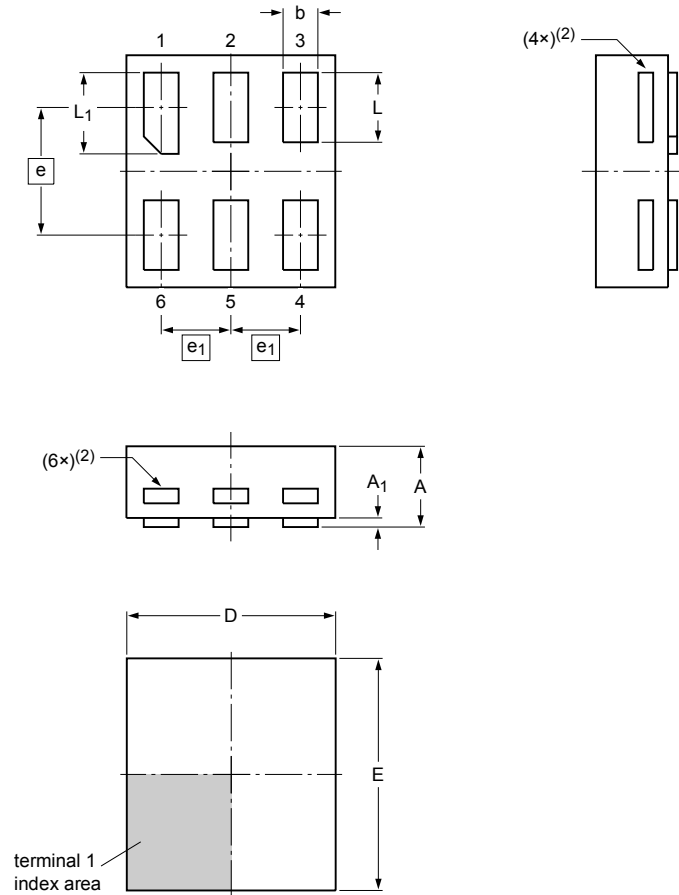
1. Can be visible in some manufacturing processes.

| 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 | 0.3 |                | 0.30 | 0.35           |
|      | min 0.12         |                | 0.85 | 0.95 |      |     |                | 0.27 | 0.32           |

Note

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

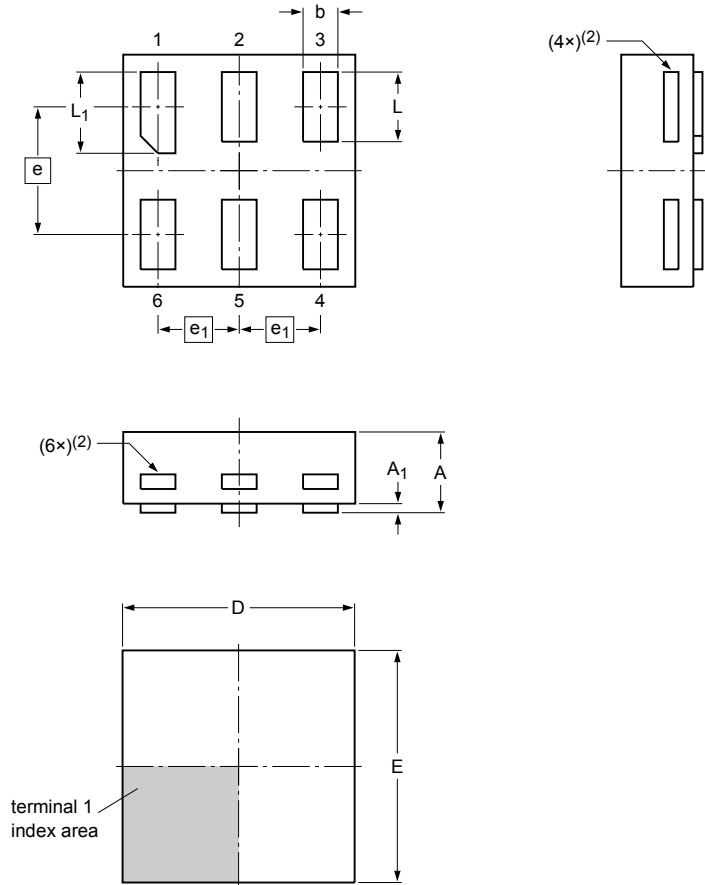
sot1115\_po

| 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> |
|------|------------------|----------------|------|------|------|------|----------------|------|----------------|
| max  | 0.35             | 0.04           | 0.20 | 1.05 | 1.05 |      |                | 0.35 | 0.40           |
| nom  |                  |                | 0.15 | 1.00 | 1.00 | 0.55 | 0.35           | 0.30 | 0.35           |
| min  |                  |                | 0.12 | 0.95 | 0.95 |      |                | 0.27 | 0.32           |

Note

- Including plating thickness.
- 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)

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

SOT1255

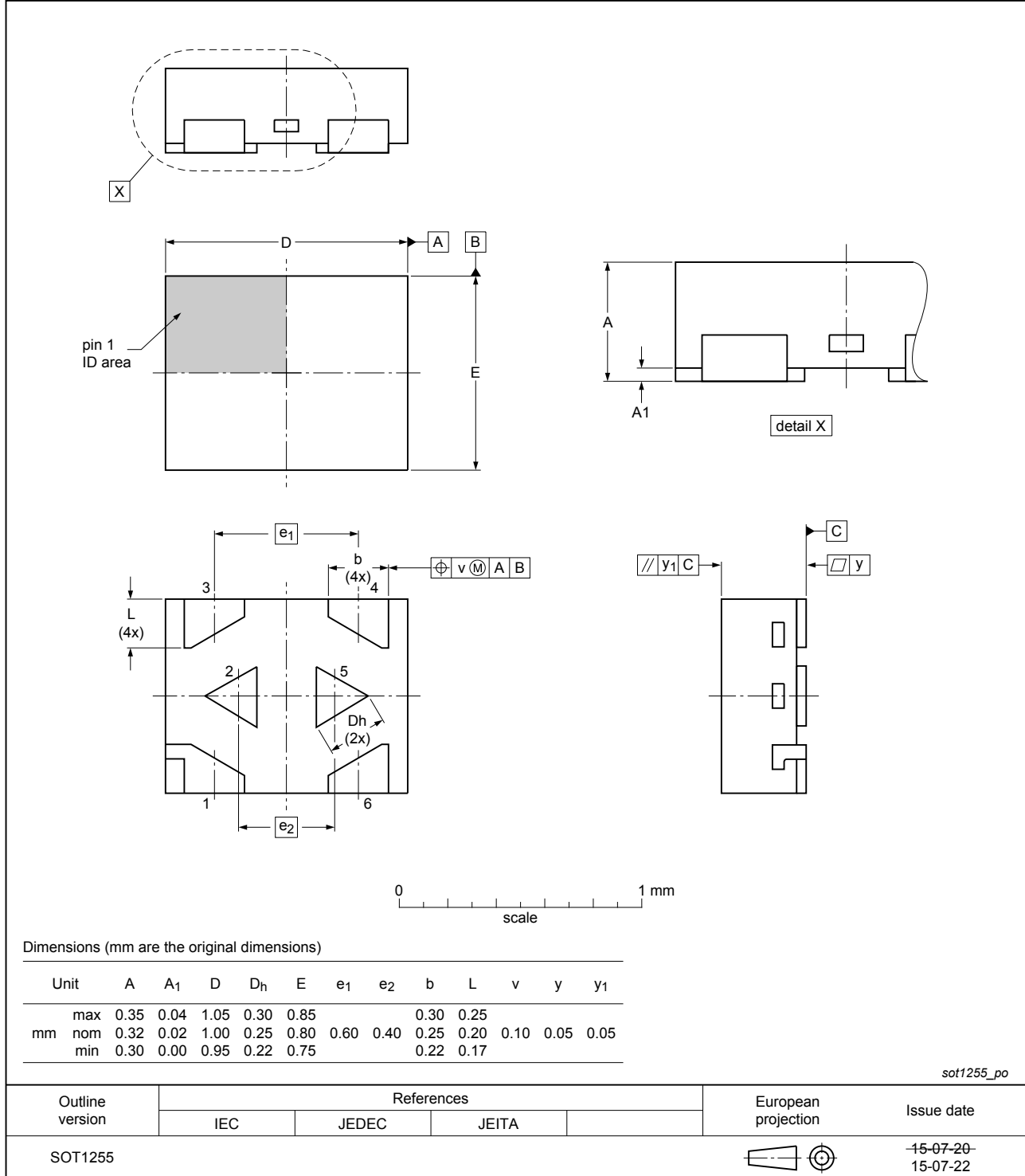


Figure 16. Package outline SOT1255 (X2SON6)

## 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    |
|----------------|---|-----------------------|---------------|---------------|
| 74LVC2G34 v.10 | 20180223  | Product data sheet    | -             | 74LVC2G34 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> |                       |               |               |
| 74LVC2G34 v.9  | 20161215  | Product data sheet    | -             | 74LVC2G34 v.8 |
| Modifications: | <ul style="list-style-type: none"> <li>Table 7: The maximum limits for leakage current and supply current have changed.</li> </ul>  |                       |               |               |
| 74LVC2G34 v.8  | 20160210  | Product data sheet    | -             | 74LVC2G34 v.7 |
| Modifications: | <ul style="list-style-type: none"> <li>Added type number 74LVC2G34GX (SOT1255/X2SON6).</li> </ul>   |                       |               |               |
| 74LVC2G34 v.7  | 20120704  | Product data sheet    | -             | 74LVC2G34 v.6 |
| Modifications: | <ul style="list-style-type: none"> <li>Package outline drawing of SOT886 (Figure 12) modified.</li> </ul>   |                       |               |               |
| 74LVC2G34 v.6  | 20111129  | Product data sheet    | -             | 74LVC2G34 v.5 |
| Modifications: | <ul style="list-style-type: none"> <li>Legal pages updated.</li> </ul>  |                       |               |               |
| 74LVC2G34 v.5  | 20100902  | Product data sheet    | -             | 74LVC2G34 v.4 |
| 74LVC2G34 v.4  | 20070720  | Product data sheet    | -             | 74LVC2G34 v.3 |
| 74LVC2G34 v.3  | 20070321  | Product data sheet    | -             | 74LVC2G34 v.2 |
| 74LVC2G34 v.2  | 20040910  | Product specification | -             | 74LVC2G34 v.1 |
| 74LVC2G34 v.1  | 20030725  | Product specification | -             | -             |

## 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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