

# 74LVC3G06

Triple inverter with open-drain output

Rev. 11 — 28 March 2013

Product data sheet

## 1. General description

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The 74LVC3G06 provides three inverting buffers.

The output of this device is an open drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

Inputs 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 tolerant for 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 a 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)
  - ◆ JESD8-B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - ◆ HBM JESD22-A114F exceeds 2000 V
  - ◆ MM JESD22-A115-A exceeds 200 V
- -24 mA output drive ( $V_{CC} = 3.0$  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  |
| 74LVC3G06DP | -40 °C to +125 °C | TSSOP8 | plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm     | SOT505-2 |
| 74LVC3G06DC | -40 °C to +125 °C | VSSOP8 | plastic very thin shrink small outline package; 8 leads; body width 2.3 mm                  | SOT765-1 |
| 74LVC3G06GT | -40 °C to +125 °C | XSON8  | plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm | SOT833-1 |
| 74LVC3G06GF | -40 °C to +125 °C | XSON8  | extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm         | SOT1089  |
| 74LVC3G06GD | -40 °C to +125 °C | XSON8  | plastic extremely thin small outline package; no leads; 8 terminals; body 3 × 2 × 0.5 mm    | SOT996-2 |
| 74LVC3G06GM | -40 °C to +125 °C | XQFN8  | plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 × 1.6 × 0.5 mm   | SOT902-2 |
| 74LVC3G06GN | -40 °C to +125 °C | XSON8  | extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm       | SOT1116  |
| 74LVC3G06GS | -40 °C to +125 °C | XSON8  | extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm      | SOT1203  |

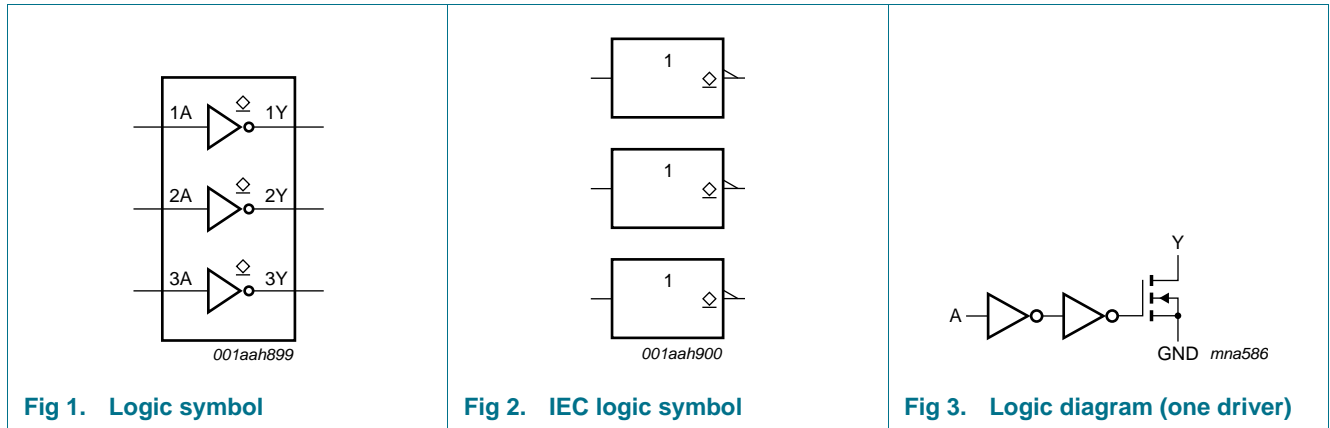
### 4. Marking

Table 2. Marking codes

| Type number | Marking code <sup>[1]</sup> |
|-------------|-----------------------------|
| 74LVC3G06DP | V06                         |
| 74LVC3G06DC | V06                         |
| 74LVC3G06GT | V06                         |
| 74LVC3G06GF | V6                          |
| 74LVC3G06GD | V06                         |
| 74LVC3G06GM | V06                         |
| 74LVC3G06GN | V6                          |
| 74LVC3G06GS | V6                          |

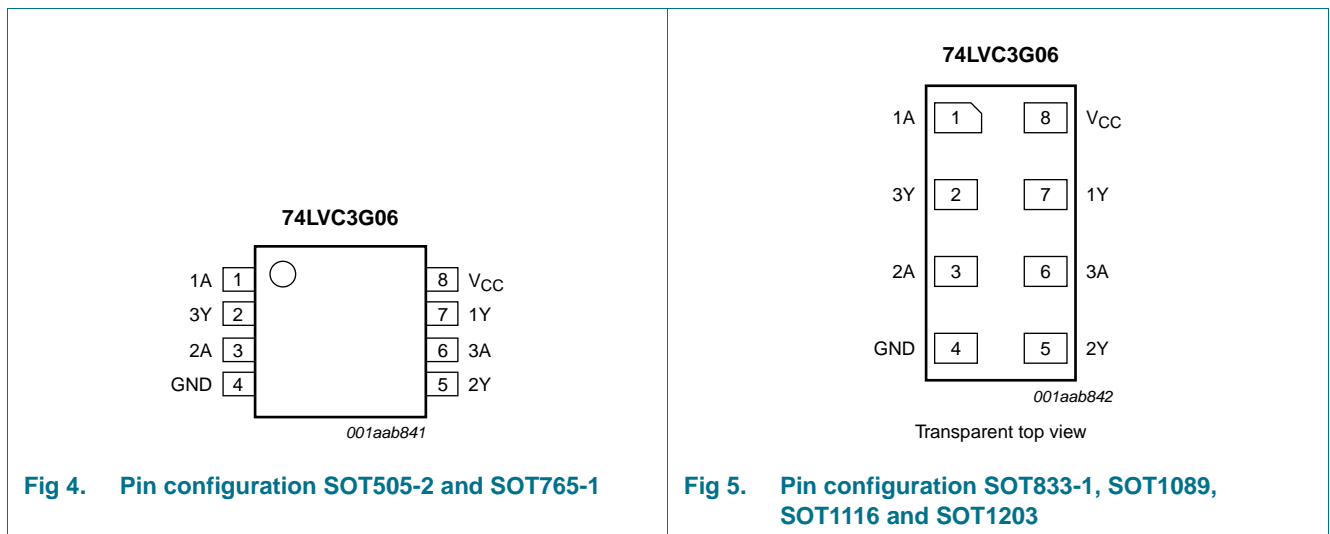
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

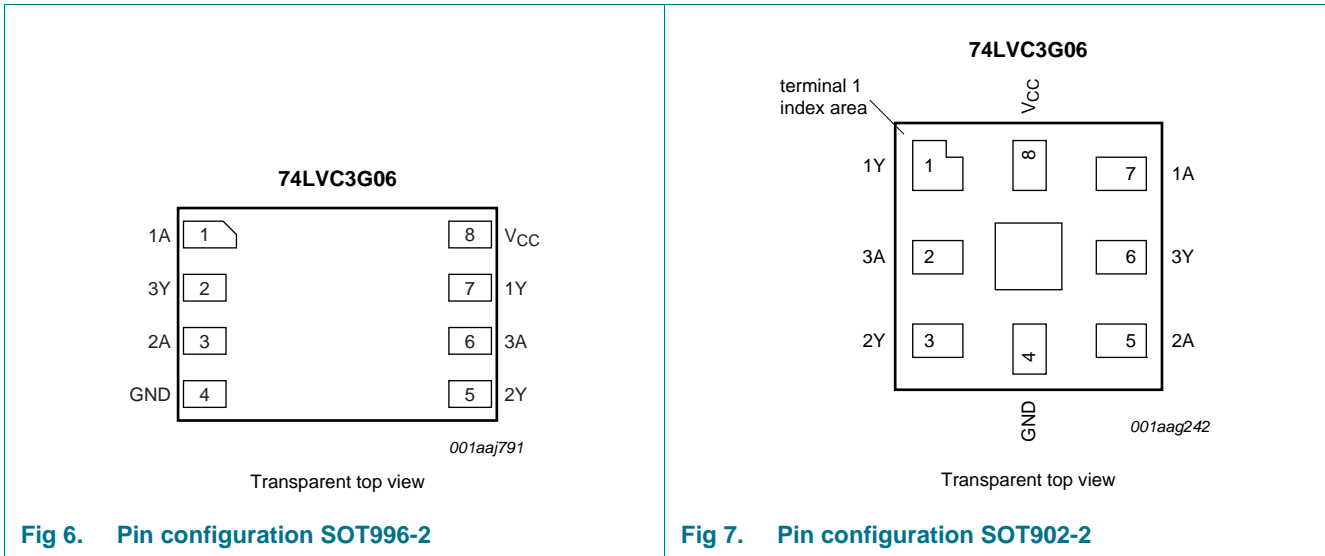
## 5. Functional diagram



## 6. Pinning information

### 6.1 Pinning





### 6.2 Pin description

Table 3. Pin description

| Symbol          | Pin  |          | Description    |
|-----------------|--|----------|----------------|
|                 | SOT505-2, SOT765-1, SOT833-1, SOT1089, SOT996-2, SOT1116 and SOT1203 | SOT902-2 |                |
| 1A, 2A, 3A      | 1, 3, 6  | 7, 5, 2  | data input     |
| 1Y, 2Y, 3Y      | 7, 5, 2  | 1, 3, 6  | data output    |
| GND             | 4  | 4        | ground (0 V)   |
| V <sub>CC</sub> | 8  | 8        | supply voltage |

## 7. Functional description

Table 4. Function table<sup>[1]</sup>

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

[1] H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state.

## 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 | $V_O < 0$ V                   | -50         | -    | mA   |
| $V_O$     | output voltage          | Active mode                   | [1] -0.5    | +6.5 | V    |
|           |                         | Power-down mode               | [1][2] -0.5 | +6.5 | V    |
| $I_O$     | output current          | $V_O = 0$ V to 6.5 V          | -           | 50   | mA   |
| $I_{CC}$  | supply current          |                               | -           | 100  | mA   |
| $I_{GND}$ | ground current          |                               | -100        | -    | mA   |
| $T_{stg}$ | storage temperature     |                               | -65         | +150 | °C   |
| $P_{tot}$ | total power dissipation | $T_{amb} = -40$ °C to +125 °C | [3] -       | 250  | mW   |

[1] The minimum 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 TSSOP8 and VSSOP8 packages: above 110 °C the value of  $P_{tot}$  derates linearly at 8.0 mW/K.  
For XSON8 and XQFN8 packages: above 118 °C the value of  $P_{tot}$  derates linearly with 7.8 mW/K.

## 9. Recommended operating conditions

**Table 6. Operating conditions**

| Symbol              | Parameter                           | Conditions                      | Min  | 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    | 5.5  | 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  | Min                    | Typ  | Max                    | Unit |
|---|---------------------------|---|------------------------|------|------------------------|------|
| <b>T<sub>amb</sub> = -40 °C to +85 °C [1]</b> |                           |   |                        |      |                        |      |
| V <sub>IH</sub>                               | HIGH-level input voltage  | V <sub>CC</sub> = 1.65 V to 1.95 V  | 0.65 × V <sub>CC</sub> | -    | -                      | V    |
|   |                           | V <sub>CC</sub> = 2.3 V to 2.7 V  | 1.7                    | -    | -                      | V    |
|   |                           | V <sub>CC</sub> = 2.7 V to 3.6 V  | 2.0                    | -    | -                      | V    |
|   |                           | V <sub>CC</sub> = 4.5 V to 5.5 V  | 0.7 × V <sub>CC</sub>  | -    | -                      | V    |
| V <sub>IL</sub>                               | LOW-level input voltage   | V <sub>CC</sub> = 1.65 V to 1.95 V  | -                      | -    | 0.35 × V <sub>CC</sub> | V    |
|   |                           | V <sub>CC</sub> = 2.3 V to 2.7 V  | -                      | -    | 0.7                    | V    |
|   |                           | V <sub>CC</sub> = 2.7 V to 3.6 V  | -                      | -    | 0.8                    | V    |
|   |                           | V <sub>CC</sub> = 4.5 V to 5.5 V  | -                      | -    | 0.3 × V <sub>CC</sub>  | 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                   | V    |
|   |                           | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V   | -                      | -    | 0.45                   | V    |
|   |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V  | -                      | -    | 0.30                   | V    |
|   |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V   | -                      | -    | 0.40                   | V    |
|   |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V   | -                      | -    | 0.55                   | V    |
|   |                           | I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V   | -                      | -    | 0.55                   | 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  | [2] -                  | ±0.1 | ±5                     | μA   |
| I <sub>OZ</sub>                               | OFF-state output current  | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> ; V <sub>O</sub> = V <sub>CC</sub> or GND;<br>V <sub>CC</sub> = 5.5 V | -                      | ±0.1 | ±10                    | 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 | ±10                    | 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  | 10                     | μA   |
| ΔI <sub>CC</sub>                              | additional supply current | per pin; 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              | [2] -                  | 5    | 500                    | μA   |
| C <sub>I</sub>                                | input capacitance         |   | -                      | 2.5  | -                      | pF   |

**Table 7. Static characteristics ...continued**

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

| Symbol                                     | Parameter                 | Conditions  | Min                    | Typ | Max                    | Unit |
|--|---------------------------|---|------------------------|-----|------------------------|------|
| <b>T<sub>amb</sub> = -40 °C to +125 °C</b> |                           |   |                        |     |                        |      |
| V <sub>IH</sub>                            | HIGH-level input voltage  | V <sub>CC</sub> = 1.65 V to 1.95 V  | 0.65 × V <sub>CC</sub> | -   | -                      | V    |
|  |                           | V <sub>CC</sub> = 2.3 V to 2.7 V  | 1.7                    | -   | -                      | V    |
|  |                           | V <sub>CC</sub> = 2.7 V to 3.6 V  | 2.0                    | -   | -                      | V    |
|  |                           | V <sub>CC</sub> = 4.5 V to 5.5 V  | 0.7 × V <sub>CC</sub>  | -   | -                      | V    |
| V <sub>IL</sub>                            | LOW-level input voltage   | V <sub>CC</sub> = 1.65 V to 1.95 V  | -                      | -   | 0.35 × V <sub>CC</sub> | V    |
|  |                           | V <sub>CC</sub> = 2.3 V to 2.7 V  | -                      | -   | 0.7                    | V    |
|  |                           | V <sub>CC</sub> = 2.7 V to 3.6 V  | -                      | -   | 0.8                    | V    |
|  |                           | V <sub>CC</sub> = 4.5 V to 5.5 V  | -                      | -   | 0.3 × V <sub>CC</sub>  | 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                   | V    |
|  |                           | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V   | -                      | -   | 0.70                   | V    |
|  |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V  | -                      | -   | 0.45                   | V    |
|  |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V   | -                      | -   | 0.60                   | V    |
|  |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V   | -                      | -   | 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  | -                      | -   | ±20                    | μA   |
|  |                           |   |                        |     |                        |      |
| I <sub>OZ</sub>                            | OFF-state output current  | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> ; V <sub>O</sub> = V <sub>CC</sub> or GND;<br>V <sub>CC</sub> = 5.5 V | -                      | -   | ±10                    | 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   | -                      | -   | ±20                    | 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                                 | -                      | -   | 40                     | μA   |
| ΔI <sub>CC</sub>                           | additional supply current | per pin; 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              | -                      | -   | 5000                   | μA   |

[1] All typical values are measured at T<sub>amb</sub> = 25 °C.[2] These typical values are measured at V<sub>CC</sub> = 3.3 V.

## 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              | 2.6                | 6.5 | 1.0               | 8.2 | ns   |
|                 |                               | V <sub>CC</sub> = 2.3 V to 2.7 V   | 0.5              | 1.6                | 3.9 | 0.5               | 4.9 | ns   |
|                 |                               | V <sub>CC</sub> = 2.7 V  | 1.0              | 2.2                | 4.2 | 1.0               | 5.3 | ns   |
|                 |                               | V <sub>CC</sub> = 3.0 V to 3.6 V   | 0.5              | 2.0                | 3.4 | 0.5               | 4.3 | ns   |
|                 |                               | V <sub>CC</sub> = 4.5 V to 5.5 V   | 0.5              | 1.4                | 2.9 | 0.5               | 3.7 | 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> | -                | 5.9                | -   | -                 | -   | 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>PLZ</sub> and t<sub>PZL</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;

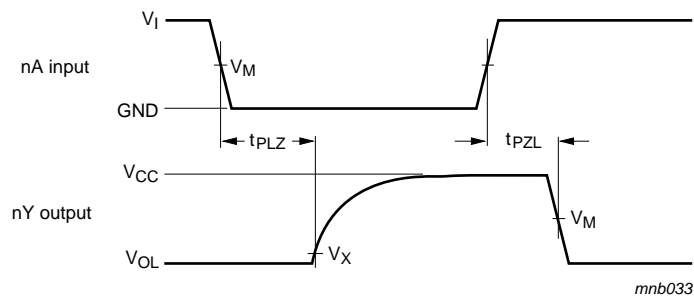
C<sub>L</sub> = output load capacitance in pF;

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.

## 12. Waveforms



Measurement points are given in [Table 9](#).

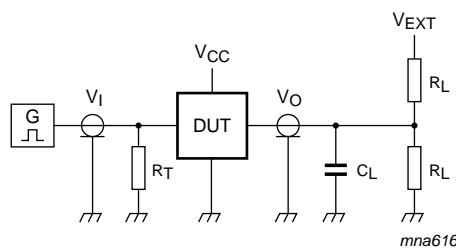
V<sub>OL</sub> is the typical output voltage level that occurs with the output load.

**Fig 8. The input (nA) to output (nY) propagation delays**



Table 9. Measurement points

| Supply voltage   | Input               | Output              |                   |
|------------------|---------------------|---------------------|-------------------|
| $V_{CC}$         | $V_M$               | $V_M$               | $V_X$             |
| 1.65 V to 1.95 V | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ | $V_{OL} + 0.15 V$ |
| 2.3 V to 2.7 V   | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ | $V_{OL} + 0.15 V$ |
| 2.7 V            | 1.5 V               | 1.5 V               | $V_{OL} + 0.3 V$  |
| 3.0 V to 3.6 V   | 1.5 V               | 1.5 V               | $V_{OL} + 0.3 V$  |
| 4.5 V to 5.5 V   | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ | $V_{OL} + 0.3 V$  |



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

Definitions for test circuit:

$R_L$  = Load resistance.

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

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

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

Fig 9. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage   | Input    |                       | Load  |              | $V_{EXT}$          |
|------------------|----------|-----------------------|-------|--------------|--------------------|
| $V_{CC}$         | $V_I$    | $t_r, t_f$            | $C_L$ | $R_L$        | $t_{PZL}, t_{PLZ}$ |
| 1.65 V to 1.95 V | $V_{CC}$ | $\leq 2.0 \text{ ns}$ | 30 pF | 1 k $\Omega$ | $2 \times V_{CC}$  |
| 2.3 V to 2.7 V   | $V_{CC}$ | $\leq 2.0 \text{ ns}$ | 30 pF | 500 $\Omega$ | $2 \times V_{CC}$  |
| 2.7 V            | 2.7 V    | $\leq 2.5 \text{ ns}$ | 50 pF | 500 $\Omega$ | 6 V                |
| 3.0 V to 3.6 V   | 2.7 V    | $\leq 2.5 \text{ ns}$ | 50 pF | 500 $\Omega$ | 6 V                |
| 4.5 V to 5.5 V   | $V_{CC}$ | $\leq 2.5 \text{ ns}$ | 50 pF | 500 $\Omega$ | $2 \times V_{CC}$  |

### 13. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

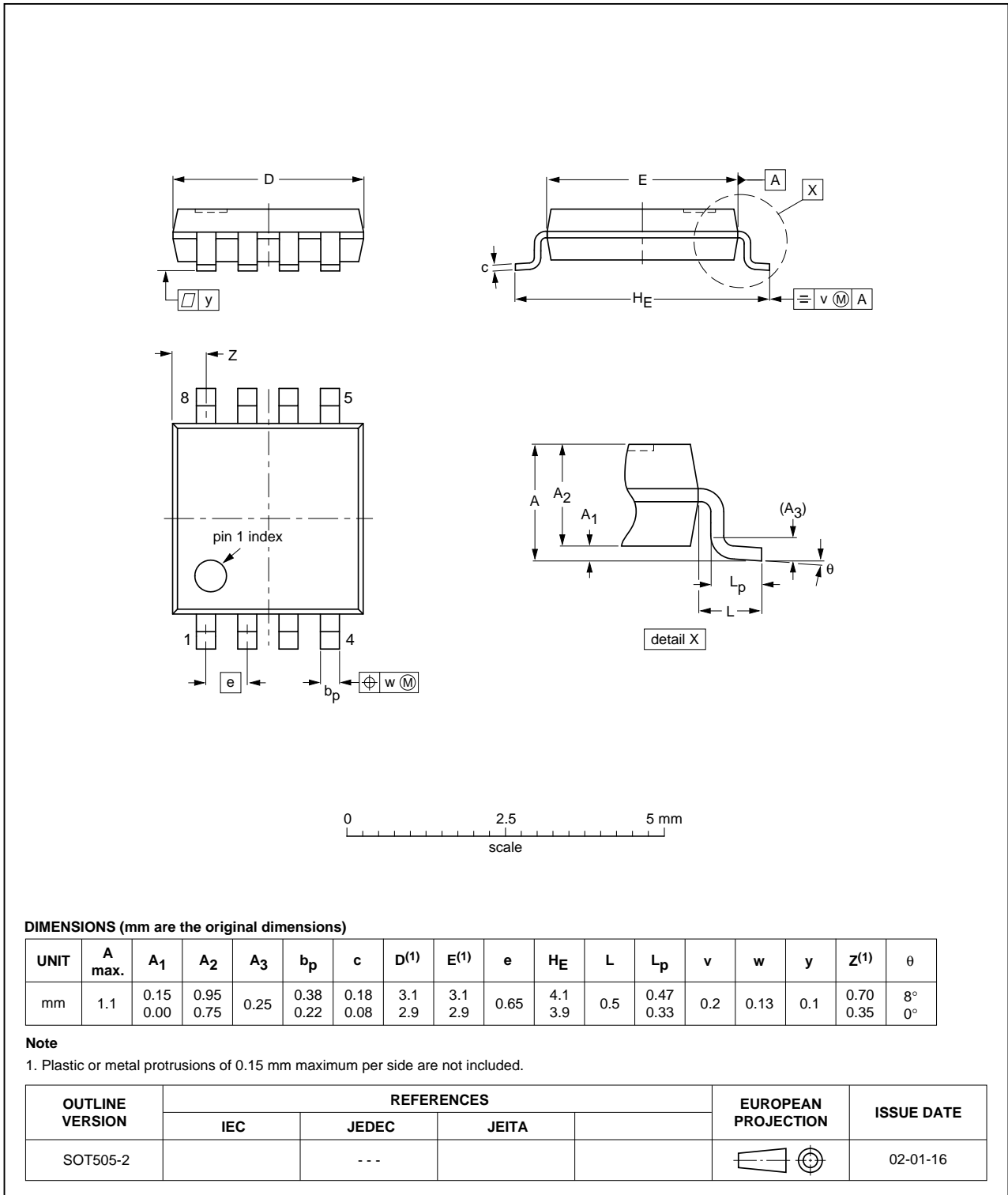


Fig 10. Package outline SOT505-2 (TSSOP8)

VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1

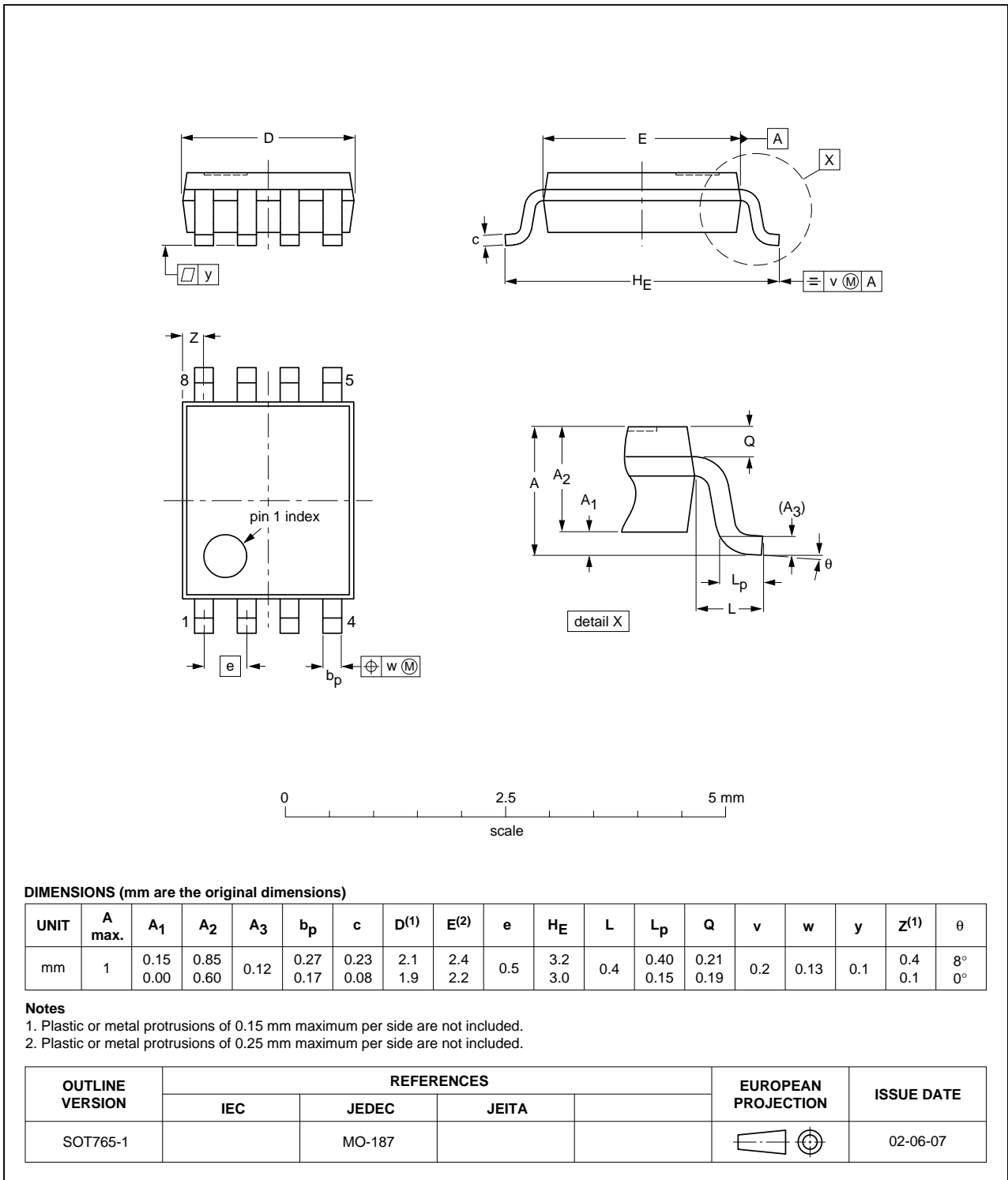


Fig 11. Package outline SOT765-1 (VSSOP8)

XSON8: plastic extremely thin small outline package; no leads; 8 terminals; body 1 x 1.95 x 0.5 mm

SOT833-1

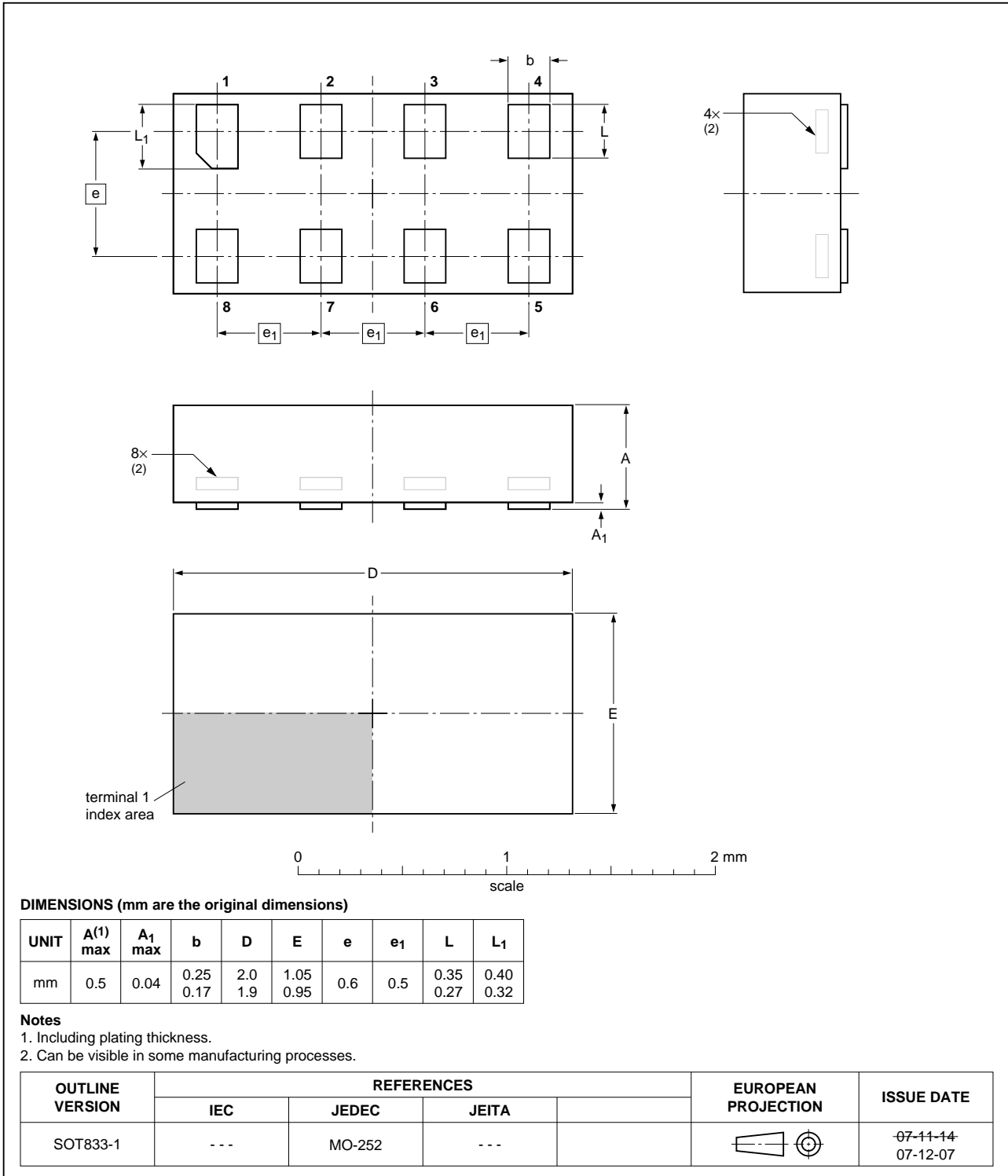
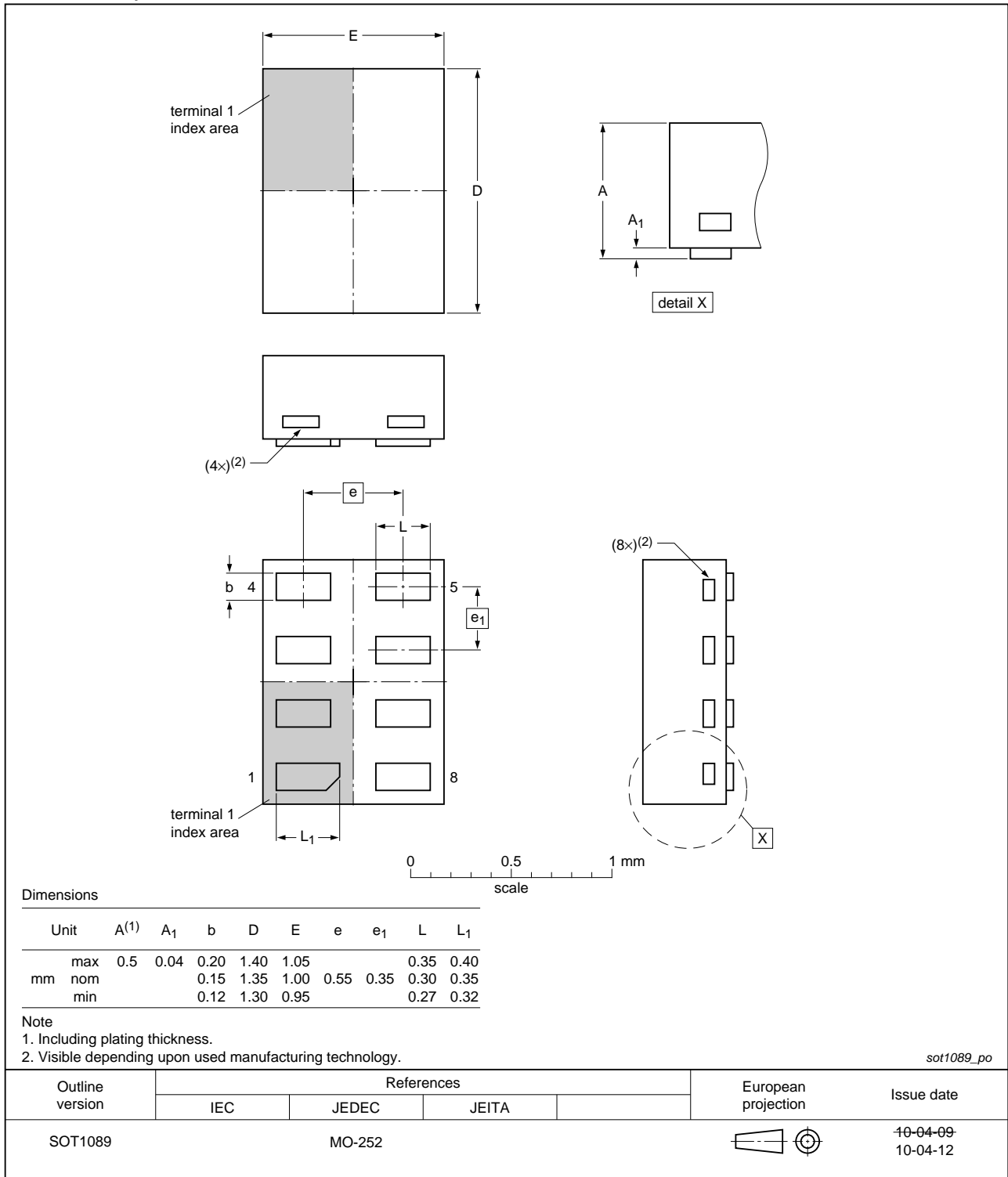


Fig 12. Package outline SOT833-1 (XSON8)

**XSON8: extremely thin small outline package; no leads;  
8 terminals; body 1.35 x 1 x 0.5 mm**

**SOT1089**



**Fig 13. Package outline SOT1089 (XSON8)**

XSON8: plastic extremely thin small outline package; no leads;  
8 terminals; body 3 x 2 x 0.5 mm

SOT996-2



Fig 14. Package outline SOT996-2 (XSON8)

XQFN8: plastic, extremely thin quad flat package; no leads;  
8 terminals; body 1.6 x 1.6 x 0.5 mm

SOT902-2

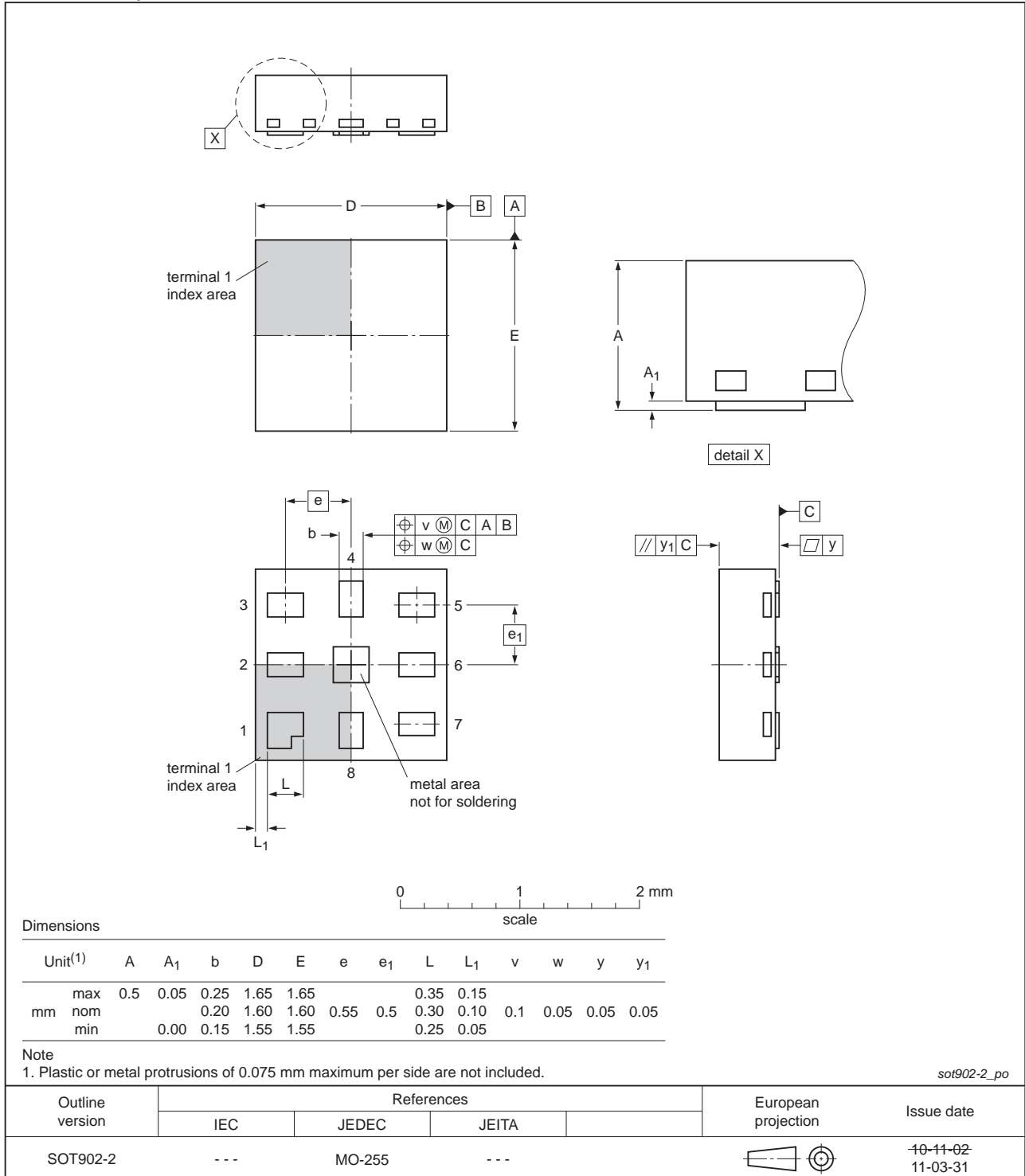


Fig 15. Package outline SOT902-2 (XQFN8)

**XSON8: extremely thin small outline package; no leads;  
8 terminals; body 1.2 x 1.0 x 0.35 mm**

SOT1116

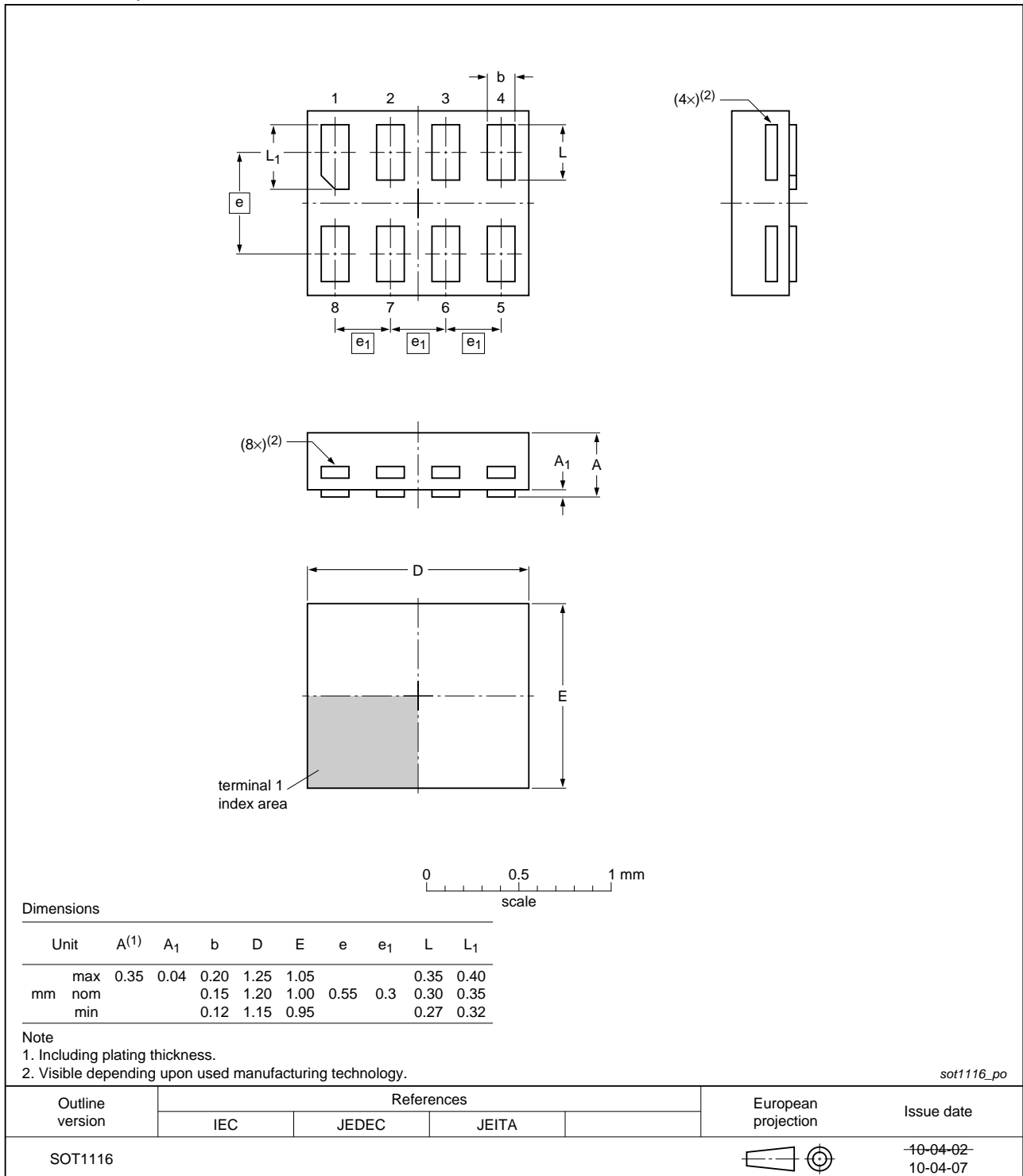
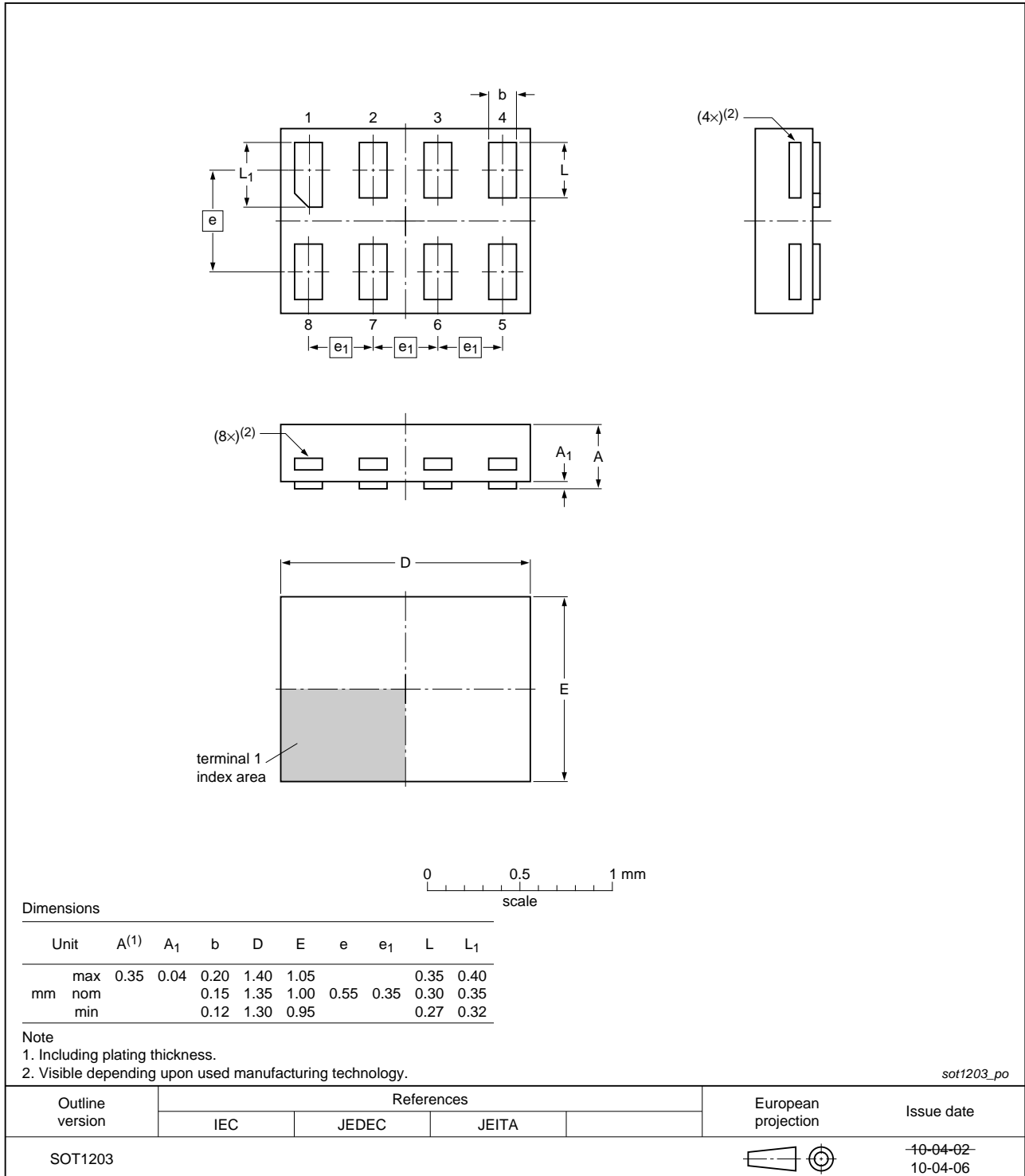


Fig 16. Package outline SOT1116 (XSON8)



**XSON8: extremely thin small outline package; no leads;  
8 terminals; body 1.35 x 1.0 x 0.35 mm**

**SOT1203**



**Fig 17. Package outline SOT1203 (XSON8)**

## 14. 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             |

## 15. Revision history

Table 12. Revision history

| Document ID    | Release date  | Data sheet status  | Change notice | Supersedes     |
|----------------|---|--------------------|---------------|----------------|
| 74LVC3G06 v.11 | 20130328  | Product data sheet | -             | 74LVC3G06 v.10 |
| Modifications: | <ul style="list-style-type: none"> <li>For type number 74LVC3G06GD XSON8U has changed to XSON8.</li> </ul>          |                    |               |                |
| 74LVC3G06 v.10 | 20120627  | Product data sheet | -             | 74LVC3G06 v.9  |
| Modifications: | <ul style="list-style-type: none"> <li>For type number 74LVC3G06GM the SOT code has changed to SOT902-2.</li> </ul> |                    |               |                |
| 74LVC3G06 v.9  | 20111123  | Product data sheet | -             | 74LVC3G06 v.8  |
| Modifications: | <ul style="list-style-type: none"> <li>Legal pages updated.</li> </ul>  |                    |               |                |
| 74LVC3G06 v.8  | 20100809  | Product data sheet | -             | 74LVC3G06 v.7  |
| 74LVC3G06 v.7  | 20090312  | Product data sheet | -             | 74LVC3G06 v.6  |
| 74LVC3G06 v.6  | 20080403  | Product data sheet | -             | 74LVC3G06 v.5  |
| 74LVC3G06 v.5  | 20070521  | Product data sheet | -             | 74LVC3G06 v.4  |
| 74LVC3G06 v.4  | 20060302  | Product data sheet | -             | 74LVC3G06 v.3  |
| 74LVC3G06 v.3  | 20050201  | Product data sheet | -             | 74LVC3G06 v.2  |
| 74LVC3G06 v.2  | 20041021  | Product data sheet | -             | 74LVC3G06 v.1  |
| 74LVC3G06 v.1  | 20040607  | Product data sheet | -             | -              |

## 16. Legal information

### 16.1 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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