# 74LVC3G17

# Triple non-inverting Schmitt trigger with 5 V tolerant input Rev. 13 — 27 November 2018 Product data sheet

# 1. General description

The 74LVC3G17 provides three non-inverting buffers with Schmitt trigger input. It is capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of the 74LVC3G17 as a translator 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 a 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 input/output for interfacing with 5 V logic
- High noise immunity
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- ±24 mA output drive (V<sub>CC</sub> = 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. Applications

· Wave and pulse shapers for highly noisy environments



#### Triple non-inverting Schmitt trigger with 5 V tolerant input

# 4. Ordering information

**Table 1. Ordering information** 

| Type number | Package           | Package |   |          |  |  |  |  |  |
|-------------|-------------------|---------|---|----------|--|--|--|--|--|
|             | Temperature range | Name    | Description   | Version  |  |  |  |  |  |
| 74LVC3G17DP | -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 |  |  |  |  |  |
| 74LVC3G17DC | -40 °C to +125 °C | VSSOP8  | plastic very thin shrink small outline package;<br>8 leads; body width 2.3 mm               | SOT765-1 |  |  |  |  |  |
| 74LVC3G17GT | -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 |  |  |  |  |  |
| 74LVC3G17GF | -40 °C to +125 °C | XSON8   | extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm         | SOT1089  |  |  |  |  |  |
| 74LVC3G17GM | -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 |  |  |  |  |  |
| 74LVC3G17GN | -40 °C to +125 °C | XSON8   | extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm       | SOT1116  |  |  |  |  |  |
| 74LVC3G17GS | -40 °C to +125 °C | XSON8   | extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm      | SOT1203  |  |  |  |  |  |

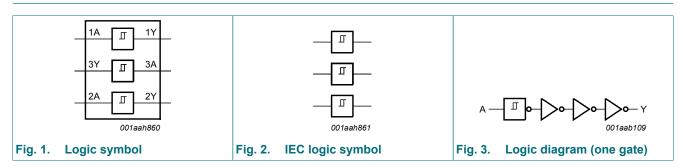
# 5. Marking

Table 2. Marking codes

| Type number | Marking code [1] |
|-------------|------------------|
| 74LVC3G17DP | V17              |
| 74LVC3G17DC | V17              |
| 74LVC3G17GT | V17              |
| 74LVC3G17GF | VV               |
| 74LVC3G17GM | V17              |
| 74LVC3G17GN | VV               |
| 74LVC3G17GS | VV               |

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

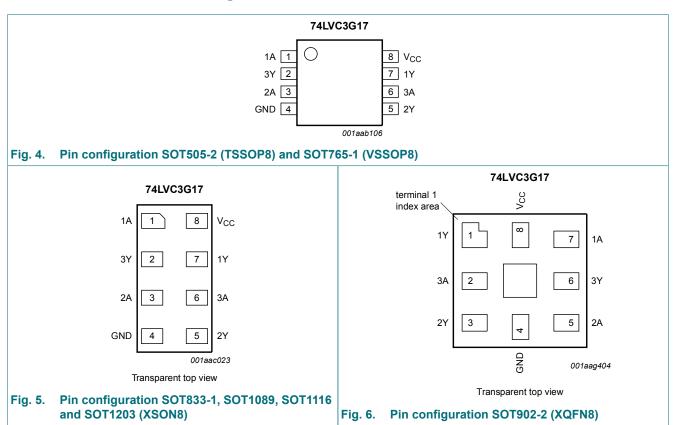
# 6. Functional diagram



Triple non-inverting Schmitt trigger with 5 V tolerant input

# 7. Pinning information

### 7.1. Pinning



### 7.2. Pin description

Table 3. Pin description

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

# 8. Functional description

#### Table 4. Function table

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

| Input | Output |
|-------|--------|
| nA    | nY     |
| L     | L      |
| Н     | Н      |

74LVC3G17

#### Triple non-inverting Schmitt trigger with 5 V tolerant input

# 9. Limiting values

#### **Table 5. Limiting values**

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

| Symbol           | Parameter               | Conditions   | Min  | Max                   | Unit |
|------------------|-------------------------|--|------|-----------------------|------|
| V <sub>CC</sub>  | supply voltage          |  | -0.5 | +6.5                  | V    |
| I <sub>IK</sub>  | input clamping current  | V <sub>I</sub> < 0 V   | -50  | -                     | mA   |
| VI               | input voltage           | [1]  | -0.5 | +6.5                  | V    |
| I <sub>OK</sub>  | output clamping current | $V_O > V_{CC}$ or $V_O < 0 V$  | -    | ±50                   | mA   |
| Vo               | output voltage          | Active mode [1]  | -0.5 | V <sub>CC</sub> + 0.5 | V    |
|                  |                         | Power-down mode; V <sub>CC</sub> = 0 V [1][2]                            | -0.5 | +6.5                  | V    |
| Io               | output current          | $V_O = 0 \text{ V to } V_{CC}$   | -    | ±50                   | mA   |
| I <sub>CC</sub>  | supply current          |  | -    | 100                   | mA   |
| I <sub>GND</sub> | ground current          |  | -100 | -                     | mA   |
| T <sub>stg</sub> | storage temperature     |  | -65  | +150                  | °C   |
| P <sub>tot</sub> | total power dissipation | $T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$ [3] | -    | 250                   | mW   |

<sup>[1]</sup> The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed.

# 10. Recommended operating conditions

#### **Table 6. Operating conditions**

| Symbol           | Parameter           | Conditions | Min  | Max             | Unit |
|------------------|---------------------|------------|------|-----------------|------|
| V <sub>CC</sub>  | supply voltage      |            | 1.65 | 5.5             | V    |
| VI               | input voltage       |            | 0    | 5.5             | V    |
| V <sub>O</sub>   | output voltage      |            | 0    | V <sub>CC</sub> | V    |
| T <sub>amb</sub> | ambient temperature |            | -40  | +125            | °C   |

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**Product data sheet** 

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

<sup>[3]</sup> For TSSOP8 package: above 55 °C the value of P<sub>tot</sub> derates linearly with 2.5 mW/K.
For VSSOP8 package: above 110 °C the value of P<sub>tot</sub> derates linearly with 8 mW/K.
For XSON8 and XQFN8 packages: above 118 °C the value of P<sub>tot</sub> derates linearly with 7.8 mW/K.

#### Triple non-inverting Schmitt trigger with 5 V tolerant input

# 11. Static characteristics

**Table 7. Static characteristics** 

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

| Symbol Parameter |                              | Conditions  |     | T <sub>amb</sub> =    | -40 °C to | +85 °C | T <sub>am</sub><br>-40 °C to |      | Unit |
|------------------|------------------------------|---|-----|-----------------------|-----------|--------|------------------------------|------|------|
|                  |                              |   |     | Min                   | Typ [1]   | Max    | Min                          | Max  |      |
| V <sub>OL</sub>  | LOW-level output             | $V_I = V_{T+} \text{ or } V_{T-}$   |     |                       |           |        |                              |      |      |
|                  | voltage                      | I <sub>O</sub> = 100 μA;<br>V <sub>CC</sub> = 1.65 V to 5.5 V                                       |     | -                     | -         | 0.1    | -                            | 0.1  | V    |
|                  |                              | $I_O = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$   |     | -                     | -         | 0.45   | -                            | 0.70 | V    |
|                  |                              | $I_{O}$ = 8 mA; $V_{CC}$ = 2.3 V  |     | -                     | -         | 0.3    | -                            | 0.45 | V    |
|                  |                              | $I_{O}$ = 12 mA; $V_{CC}$ = 2.7 V   |     | -                     | -         | 0.4    | -                            | 0.60 | ٧    |
|                  |                              | $I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$   |     | -                     | -         | 0.55   | -                            | 0.80 | V    |
|                  |                              | $I_{O}$ = 32 mA; $V_{CC}$ = 4.5 V   |     | -                     | -         | 0.55   | -                            | 0.80 | V    |
| V <sub>OH</sub>  | HIGH-level                   | $V_I = V_{T+}$ or $V_{T-}$  |     |                       |           |        |                              |      |      |
|                  | output voltage               | I <sub>O</sub> = -100 μA;<br>V <sub>CC</sub> = 1.65 V to 5.5 V                                      |     | V <sub>CC</sub> - 0.1 | -         | -      | V <sub>CC</sub> - 0.1        | -    | V    |
|                  |                              | $I_{O}$ = -4 mA; $V_{CC}$ = 1.65 V  |     | 1.2                   | -         | -      | 0.95                         | -    | V    |
|                  |                              | $I_O = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$   |     | 1.9                   | -         | -      | 1.7                          | -    | V    |
|                  |                              | $I_{O}$ = -12 mA; $V_{CC}$ = 2.7 V  |     | 2.2                   | -         | -      | 1.9                          | -    | V    |
|                  |                              | $I_O = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$  |     | 2.3                   | -         | -      | 2.0                          | -    | V    |
|                  |                              | $I_{O}$ = -32 mA; $V_{CC}$ = 4.5 V  |     | 3.8                   | -         | -      | 3.4                          | -    | V    |
| I <sub>I</sub>   | input leakage<br>current     | V <sub>I</sub> = 5.5 V or GND;<br>V <sub>CC</sub> = 0 V to 5.5 V                                    | [2] | -                     | ±0.1      | ±1     | -                            | ±1   | μA   |
| I <sub>OFF</sub> | power-off<br>leakage current | $V_{I}$ or $V_{O} = 5.5 \text{ V}$ ; $V_{CC} = 0 \text{ V}$   |     | -                     | ±0.1      | ±2     | -                            | ±2   | μA   |
| I <sub>CC</sub>  | supply current               | $V_I = 5.5 \text{ V or GND}; I_O = 0 \text{ A};$<br>$V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$     | [2] | -                     | 0.1       | 4      | -                            | 4    | μΑ   |
| Δl <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 | [2] | -                     | 5         | 500    | -                            | 500  | μΑ   |
| Cı               | input capacitance            |   |     | -                     | 3.5       | -      | -                            | -    | pF   |

<sup>[1]</sup> All typical values are measured at  $T_{amb}$  = 25 °C.

#### 11.1. Transfer characteristics

**Table 8. Transfer characteristics** 

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

| Symbol   | Parameter         | rameter Conditions -40 °C to +85 °C |      |         |      | -40 °C to | Unit |   |
|----------|-------------------|-------------------------------------|------|---------|------|-----------|------|---|
|          |                   |                                     | Min  | Typ [1] | Max  | Min       | Max  |   |
| $V_{T+}$ | positive-going    | see Fig. 7 and Fig. 8               |      |         |      |           |      |   |
|          | threshold voltage | V <sub>CC</sub> = 1.8 V             | 0.70 | 1.10    | 1.50 | 0.70      | 1.70 | V |
|          |                   | V <sub>CC</sub> = 2.3 V             | 1.00 | 1.40    | 1.80 | 1.00      | 2.00 | V |
|          |                   | V <sub>CC</sub> = 3.0 V             | 1.30 | 1.76    | 2.20 | 1.30      | 2.40 | V |
|          |                   | V <sub>CC</sub> = 4.5 V             | 1.90 | 2.47    | 3.10 | 1.90      | 3.30 | V |
|          |                   | V <sub>CC</sub> = 5.5 V             | 2.20 | 2.91    | 3.60 | 2.20      | 3.80 | V |

74LVC3G17

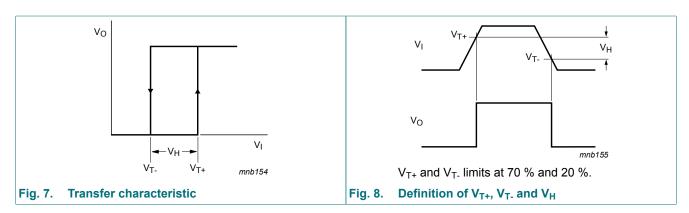
<sup>[2]</sup> These typical values are measured at  $V_{CC}$  = 3.3 V.

#### Triple non-inverting Schmitt trigger with 5 V tolerant input

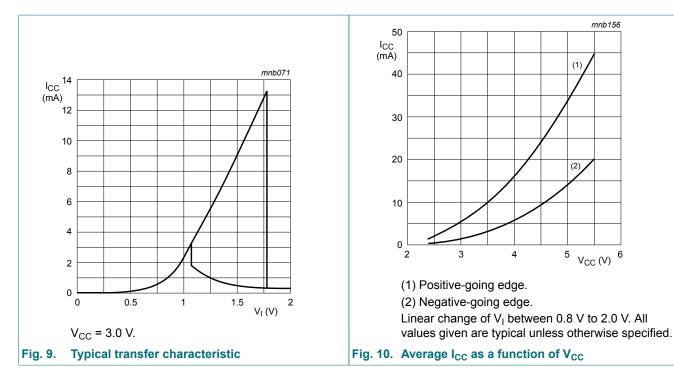
| Symbol          | Parameter          | Conditions  | -40  | 0 °C to +85 | °C   | -40 °C to | +125 °C | Unit |
|-----------------|--------------------|---|------|-------------|------|-----------|---------|------|
|                 |                    |   | Min  | Typ [1]     | Max  | Min       | Max     |      |
| V <sub>T-</sub> | negative-going     | see Fig. 7 and Fig. 8   |      |             |      |           |         |      |
|                 | threshold voltage  | V <sub>CC</sub> = 1.8 V   | 0.25 | 0.61        | 0.90 | 0.25      | 1.10    | V    |
|                 |                    | V <sub>CC</sub> = 2.3 V   | 0.40 | 0.80        | 1.15 | 0.40      | 1.35    | V    |
|                 |                    | V <sub>CC</sub> = 3.0 V   | 0.60 | 1.04        | 1.50 | 0.60      | 1.70    | V    |
|                 |                    | V <sub>CC</sub> = 4.5 V   | 1.00 | 1.55        | 2.00 | 1.00      | 2.20    | V    |
|                 |                    | V <sub>CC</sub> = 5.5 V   | 1.20 | 1.86        | 2.30 | 1.20      | 2.50    | V    |
| V <sub>H</sub>  | hysteresis voltage | (V <sub>T+</sub> - V <sub>T-</sub> ); see <u>Fig. 7</u> , <u>Fig. 8</u> and <u>Fig. 9</u> |      |             |      |           |         |      |
|                 |                    | V <sub>CC</sub> = 1.8 V   | 0.15 | 0.49        | 1.00 | 0.15      | 1.20    | V    |
|                 |                    | V <sub>CC</sub> = 2.3 V   | 0.25 | 0.60        | 1.10 | 0.25      | 1.30    | V    |
|                 |                    | V <sub>CC</sub> = 3.0 V   | 0.40 | 0.73        | 1.20 | 0.40      | 1.40    | V    |
|                 |                    | V <sub>CC</sub> = 4.5 V   | 0.60 | 0.92        | 1.50 | 0.60      | 1.70    | V    |
|                 |                    | V <sub>CC</sub> = 5.5 V   | 0.70 | 1.02        | 1.70 | 0.70      | 1.90    | V    |

<sup>[1]</sup> All typical values are measured at  $T_{amb}$  = 25 °C.

#### 11.2. Waveforms transfer characteristics



#### Triple non-inverting Schmitt trigger with 5 V tolerant input



# 12. Dynamic characteristics

**Table 9. Dynamic characteristics** 

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 12.

| Symbol          | Parameter                           | Conditions   | -40 °C to +85 °C |         | -40 °C to +125 °C |     | Unit |    |
|-----------------|-------------------------------------|--|------------------|---------|-------------------|-----|------|----|
|                 |                                     |  | Min              | Typ [1] | Max               | Min | Max  |    |
| t <sub>pd</sub> | propagation                         | nA to nY; see Fig. 11 [2]  |                  |         |                   |     |      |    |
|                 | delay                               | V <sub>CC</sub> = 1.65 V to 1.95 V                                       | 1.5              | 5.6     | 10.5              | 1.5 | 13.1 | ns |
|                 |                                     | V <sub>CC</sub> = 2.3 V to 2.7 V   | 1.0              | 3.7     | 6.5               | 1.0 | 8.5  | ns |
|                 |                                     | V <sub>CC</sub> = 2.7 V  | 1.0              | 3.8     | 6.5               | 1.0 | 8.5  | ns |
|                 |                                     | V <sub>CC</sub> = 3.0 V to 3.6 V   | 1.0              | 3.6     | 5.7               | 1.0 | 7.1  | ns |
|                 |                                     | V <sub>CC</sub> = 4.5 V to 5.5 V   | 1.0              | 2.7     | 4.3               | 1.0 | 5.4  | ns |
| C <sub>PD</sub> | power<br>dissipation<br>capacitance | per buffer; $V_{CC} = 3.3 \text{ V}$ ; [3] $V_I = \text{GND to } V_{CC}$ | -                | 16.3    | -                 | -   | -    | pF |

- Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.
- $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

 $f_i$  = input frequency in MHz;

 $f_0$  = output frequency in MHz;

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

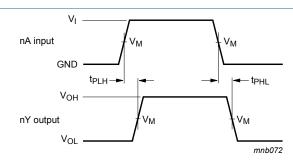
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}^2 \times f_0)$  = sum of outputs.

#### Triple non-inverting Schmitt trigger with 5 V tolerant input

#### 12.1. Waveforms and test circuit



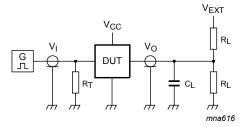
Measurement points are given in Table 10.

V<sub>OL</sub> and V<sub>OH</sub> are typical output voltage levels that occur with the output load.

Fig. 11. The input (nA) to output (nY) propagation delays and the output transition times

**Table 10. 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 | 0.5 × V <sub>CC</sub> | 0.5 × V <sub>CC</sub> |
| 2.3 V to 2.7 V   | 0.5 × V <sub>CC</sub> | 0.5 × V <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   | 0.5 × V <sub>CC</sub> | 0.5 × V <sub>CC</sub> |



Test data is given in Table 11.

Definitions for test circuit:

R<sub>L</sub> = Load resistance.

C<sub>L</sub> = Load capacitance including jig and probe capacitance.

 $R_{T}$  = Termination resistance should be equal to output impedance  $Z_{o}$  of the pulse generator.

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

Fig. 12. Test circuit for measuring switching times

Table 11. Test data

| Supply voltage   | Input           |                                 | Load  | Load           |                                     | V <sub>EXT</sub>                    |                                     |  |
|------------------|-----------------|---------------------------------|-------|----------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| V <sub>CC</sub>  | V <sub>I</sub>  | t <sub>r</sub> , t <sub>f</sub> | CL    | R <sub>L</sub> | t <sub>PLH</sub> , t <sub>PHL</sub> | t <sub>PZH</sub> , t <sub>PHZ</sub> | t <sub>PZL</sub> , t <sub>PLZ</sub> |  |
| 1.65 V to 1.95 V | V <sub>CC</sub> | ≤ 2.0 ns                        | 30 pF | 1 kΩ           | open                                | GND                                 | 2 × V <sub>CC</sub>                 |  |
| 2.3 V to 2.7 V   | $V_{CC}$        | ≤ 2.0 ns                        | 30 pF | 500 Ω          | open                                | GND                                 | 2 × V <sub>CC</sub>                 |  |
| 2.7 V            | 2.7 V           | ≤ 2.5 ns                        | 50 pF | 500 Ω          | open                                | GND                                 | 6 V                                 |  |
| 3.0 V to 3.6 V   | 2.7 V           | ≤ 2.5 ns                        | 50 pF | 500 Ω          | open                                | GND                                 | 6 V                                 |  |
| 4.5 V to 5.5 V   | V <sub>CC</sub> | ≤ 2.5 ns                        | 50 pF | 500 Ω          | open                                | GND                                 | 2 × V <sub>CC</sub>                 |  |

#### Triple non-inverting Schmitt trigger with 5 V tolerant input

# 13. Package outline

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

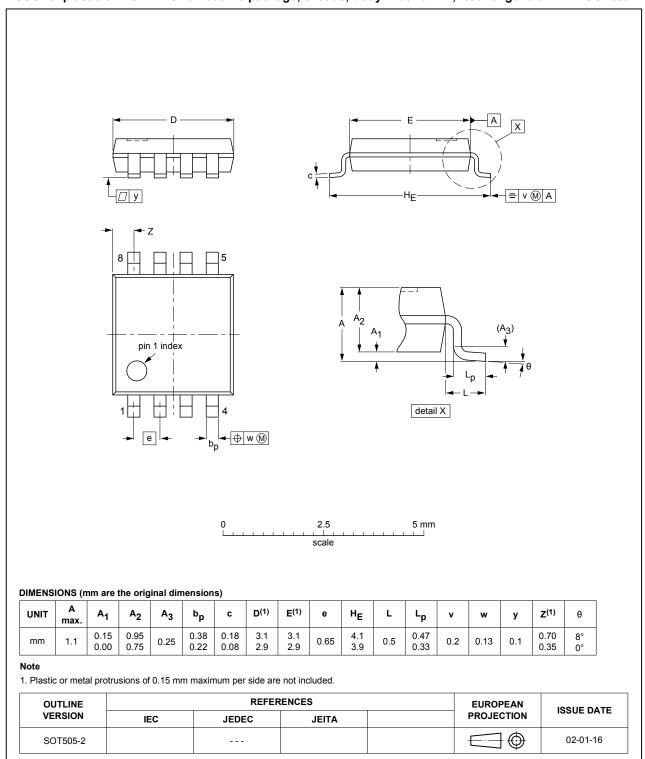


Fig. 13. Package outline SOT505-2 (TSSOP8)

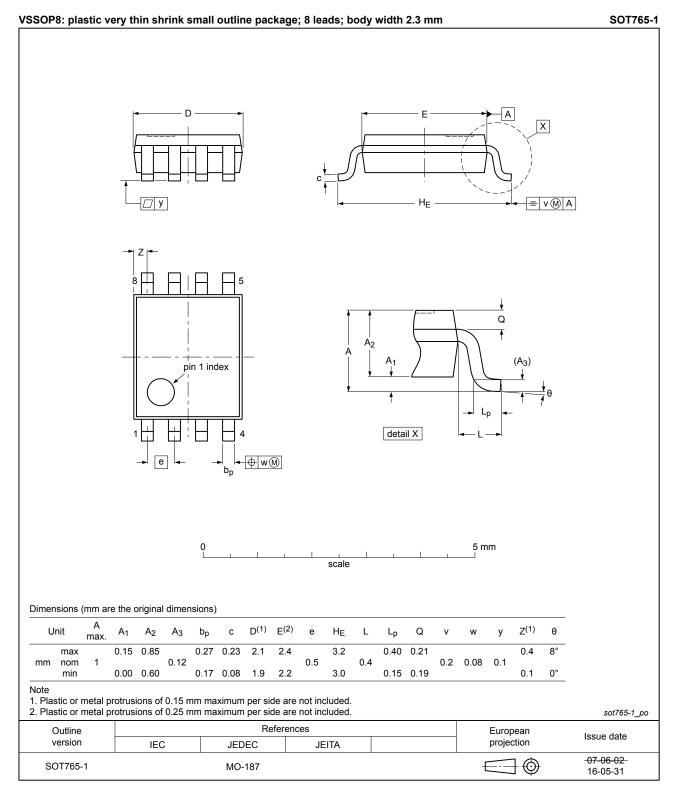


Fig. 14. Package outline SOT765-1 (VSSOP8)

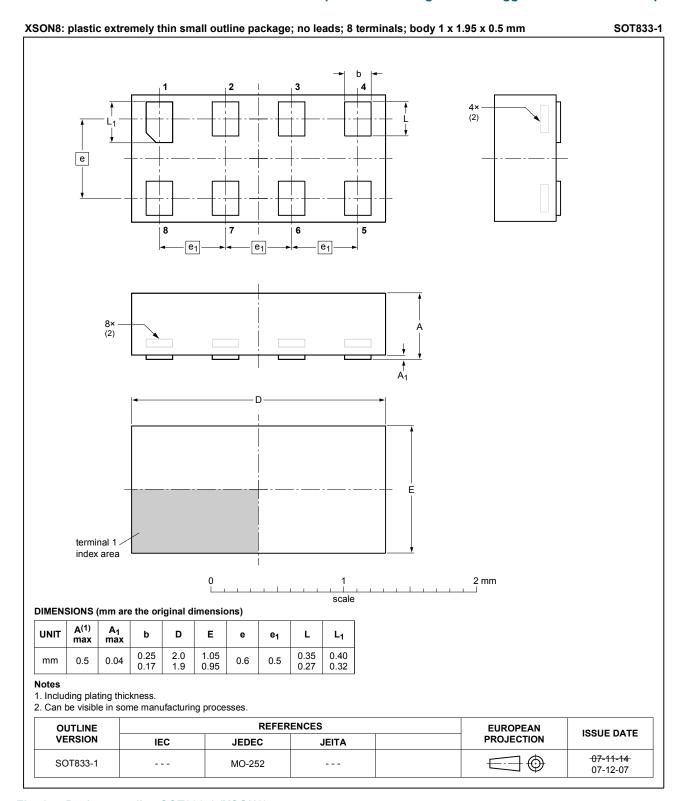


Fig. 15. Package outline SOT833-1 (XSON8)

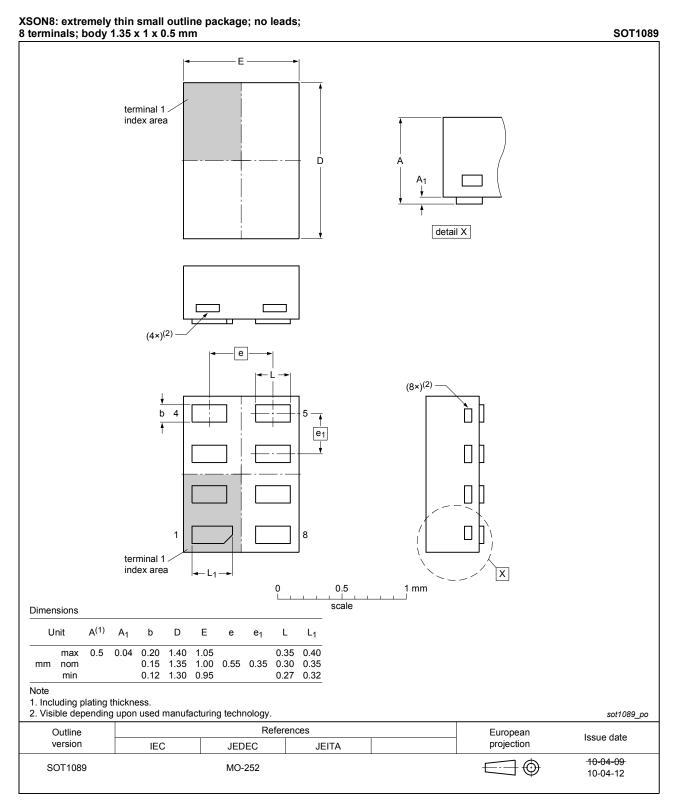


Fig. 16. Package outline SOT1089 (XSON8)

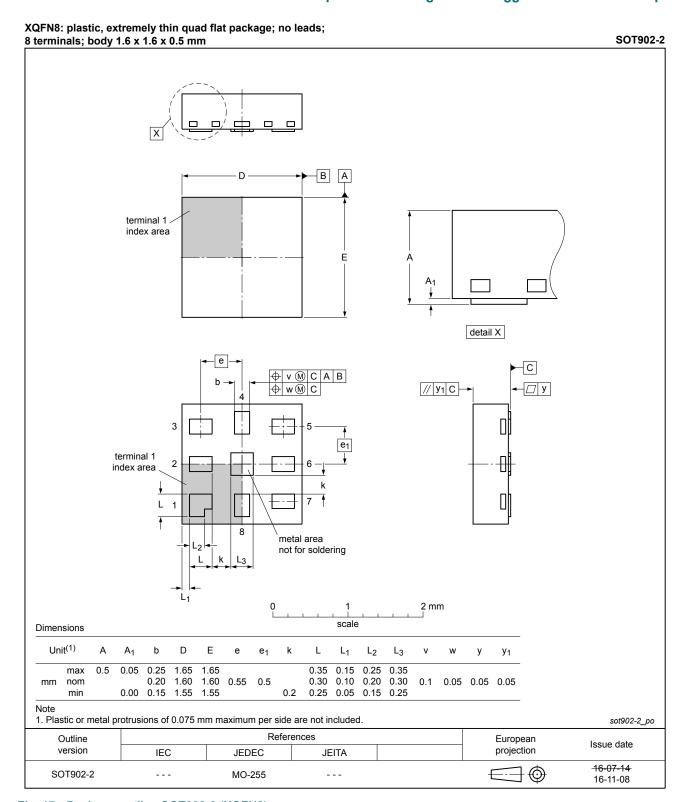


Fig. 17. Package outline SOT902-2 (XQFN8)

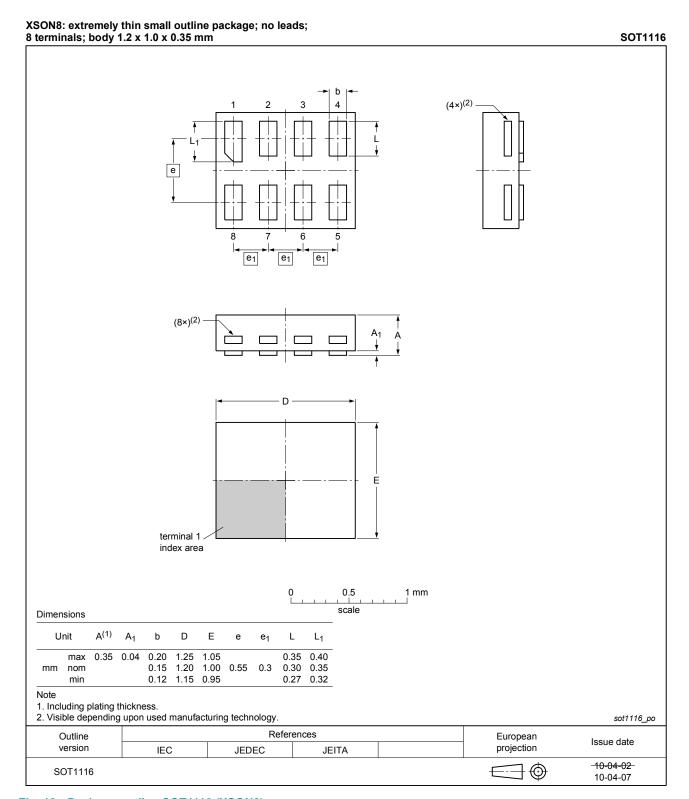


Fig. 18. Package outline SOT1116 (XSON8)

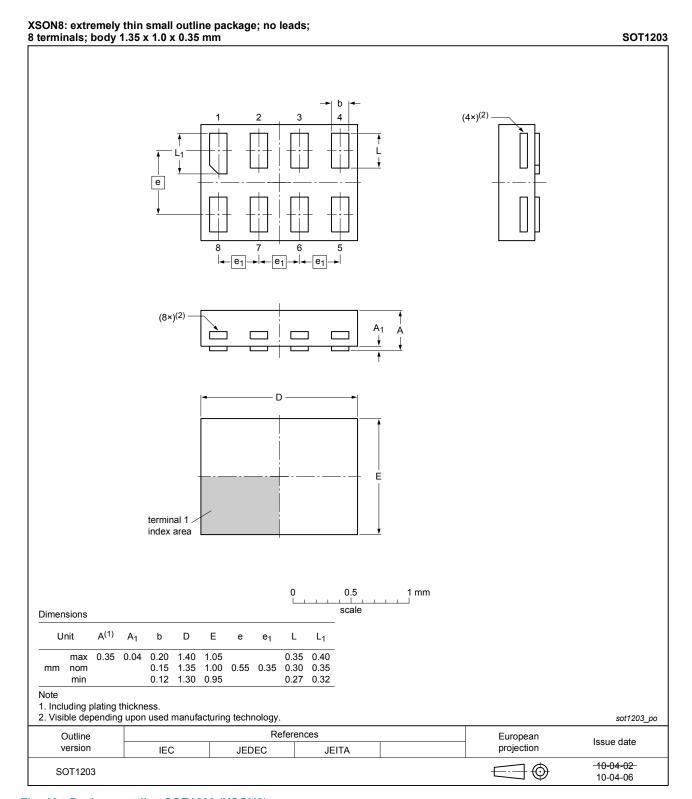


Fig. 19. Package outline SOT1203 (XSON8)

### Triple non-inverting Schmitt trigger with 5 V tolerant input

# 14. Abbreviations

#### **Table 12. Abbreviations**

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

# 15. Revision history

### Table 13. Revision history

| Document ID    | Release date                    | Data sheet status   | Change notice | Supersedes     |  |  |
|----------------|---------------------------------|---|---------------|----------------|--|--|
| 74LVC3G17 v.13 | 20181127                        | Product data sheet  | -             | 74LVC3G17 v.12 |  |  |
| Modifications: | of Nexperia. • Legal texts h    | <ul> <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> <li>Type numbers 74LVC3G17GD (SOT996-2) removed.</li> </ul> |               |                |  |  |
| 74LVC3G17 v.12 | 20161215                        | Product data sheet  | -             | 74LVC3G17 v.11 |  |  |
| Modifications: | • <u>Table 7</u> : The          | <u>Table 7</u> : The maximum limits for leakage current and supply current have changed.  |               |                |  |  |
| 74LVC3G17 v.11 | 20130409                        | Product data sheet  | -             | 74LVC3G17 v.10 |  |  |
| Modifications: | For type nun                    | For type number 74LVC3G17GD XSON8U has changed to XSON8.  |               |                |  |  |
| 74LVC3G17 v.10 | 20120706                        | Product data sheet  | -             | 74LVC3G17 v.9  |  |  |
| Modifications: | For type nun                    | For type number 74LVC3G17GM the SOT code has changed to SOT902-2.   |               |                |  |  |
| 74LVC3G17 v.9  | 20111123                        | Product data sheet  | -             | 74LVC3G17 v.8  |  |  |
| Modifications: | <ul> <li>Legal pages</li> </ul> | Legal pages updated.  |               |                |  |  |
| 74LVC3G17 v.8  | 20110921                        | Product data sheet  | -             | 74LVC3G17 v.7  |  |  |
| 74LVC3G17 v.7  | 20101104                        | Product data sheet  | -             | 74LVC3G17 v.6  |  |  |
| 74LVC3G17 v.6  | 20080606                        | Product data sheet  | -             | 74LVC3G17 v.5  |  |  |
| 74LVC3G17 v.5  | 20080313                        | Product data sheet  | -             | 74LVC3G17 v.4  |  |  |
| 74LVC3G17 v.4  | 20070521                        | Product data sheet  | -             | 74LVC3G17 v.3  |  |  |
| 74LVC3G17 v.3  | 20050131                        | Product data sheet  | -             | 74LVC3G17 v.2  |  |  |
| 74LVC3G17 v.2  | 20041103                        | Product specification   | -             | 74LVC3G17 v.1  |  |  |
| 74LVC3G17 v.1  | 20040624                        | Product specification   | -             | -              |  |  |

#### Triple non-inverting Schmitt trigger with 5 V tolerant input

### 16. Legal information

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| Document status [1][2]         | Product<br>status [3] | Definition  |
|--------------------------------|-----------------------|---|
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| Product [short] data sheet     | Production            | This document contains the product specification.                                     |

- 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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#### Triple non-inverting Schmitt trigger with 5 V tolerant input

# **Contents**

| 1. General description                   | 1 |
|--|---|
| 2. Features and benefits                 | 1 |
| 3. Applications                          | 1 |
| 4. Ordering information                  | 2 |
| 5. Marking                               | 2 |
| 6. Functional diagram                    | 2 |
| 7. Pinning information                   | 3 |
| 7.1. Pinning                             |   |
| 7.2. Pin description                     |   |
| 8. Functional description                |   |
| 9. Limiting values                       |   |
| 10. Recommended operating conditions     |   |
| 11. Static characteristics               |   |
| 11.1. Transfer characteristics           |   |
| 11.2. Waveforms transfer characteristics |   |
| 12. Dynamic characteristics              | 7 |
| 12.1. Waveforms and test circuit         |   |
| 13. Package outline                      |   |
| 14. Abbreviations                        |   |
| 15. Revision history                     |   |
| 16. Legal information                    |   |
|  |   |

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