

# 74LVC3G17

Triple non-inverting Schmitt trigger with 5 V tolerant input

Rev. 13 — 27 November 2018

Product data sheet

## 1. General description

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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

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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
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 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. Applications

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- Wave and pulse shapers for highly noisy environments

## 4. Ordering information

Table 1. Ordering information

| Type number | 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; 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               |

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

## 6. Functional diagram

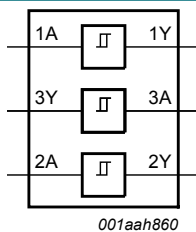


Fig. 1. Logic symbol

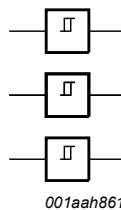


Fig. 2. IEC logic symbol

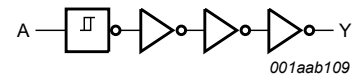


Fig. 3. Logic diagram (one gate)

## 7. Pinning information

### 7.1. Pinning

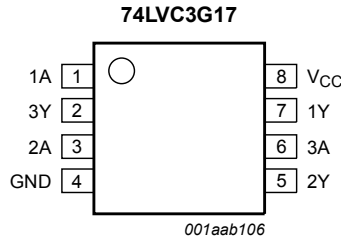


Fig. 4. Pin configuration SOT505-2 (TSSOP8) and SOT765-1 (VSSOP8)

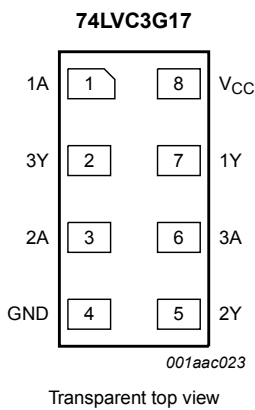


Fig. 5. Pin configuration SOT833-1, SOT1089, SOT1116 and SOT1203 (XSON8)

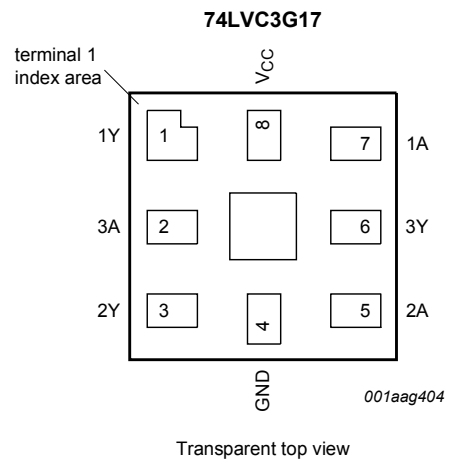


Fig. 6. Pin configuration SOT902-2 (XQFN8)

### 7.2. Pin description

Table 3. Pin description

| Symbol          | Pin  |          | Description    |
|-----------------|--|----------|----------------|
|                 | SOT505-2, SOT765-1, SOT833-1, SOT1089, SOT1116 and SOT1203 | SOT902-2 |                |
| 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      |
| H     | H      |

## 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 |
|-----------|-------------------------|--|------|----------------|------|
| $V_{CC}$  | 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]                        | -0.5 | $V_{CC} + 0.5$ | V    |
|           |                         | Power-down mode; $V_{CC} = 0$ V [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   |
| $T_{stg}$ | 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 package: above 55 °C the value of  $P_{tot}$  derates linearly with 2.5 mW/K.

For VSSOP8 package: above 110 °C the value of  $P_{tot}$  derates linearly with 8 mW/K.

For XSON8 and XQFN8 packages: above 118 °C the value of  $P_{tot}$  derates linearly with 7.8 mW/K.

## 10. 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      |            | 0    | $V_{CC}$ | V    |
| $T_{amb}$ | ambient temperature |            | -40  | +125     | °C   |

## 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>amb</sub> = -40 °C to +125 °C |      | Unit |
|------------------|---------------------------|--|-------------------------------------|---------|------|--------------------------------------|------|------|
|                  |                           |  | Min                                 | Typ [1] | Max  | Min                                  | Max  |      |
| V <sub>OL</sub>  | LOW-level output voltage  | V <sub>I</sub> = V <sub>T+</sub> or V <sub>T-</sub>  |                                     |         |      |                                      |      |      |
|                  |                           | I <sub>O</sub> = 100 µA; V <sub>CC</sub> = 1.65 V to 5.5 V   | -                                   | -       | 0.1  | -                                    | 0.1  | V    |
|                  |                           | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V  | -                                   | -       | 0.45 | -                                    | 0.70 | V    |
|                  |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V   | -                                   | -       | 0.3  | -                                    | 0.45 | V    |
|                  |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V  | -                                   | -       | 0.4  | -                                    | 0.60 | V    |
|                  |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V  | -                                   | -       | 0.55 | -                                    | 0.80 | V    |
| V <sub>OH</sub>  | HIGH-level output voltage | V <sub>I</sub> = V <sub>T+</sub> or V <sub>T-</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    |
| 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 [2]                                    | -                                   | ±0.1    | ±1   | -                                    | ±1   | µA   |
|                  |                           |  |                                     |         |      |                                      |      |      |
| I <sub>OFF</sub> | power-off leakage current | V <sub>I</sub> or V <sub>O</sub> = 5.5 V; V <sub>CC</sub> = 0 V                                      | -                                   | ±0.1    | ±2   | -                                    | ±2   | µA   |
| I <sub>CC</sub>  | supply current            | V <sub>I</sub> = 5.5 V or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 1.65 V to 5.5 V [2]           | -                                   | 0.1     | 4    | -                                    | 4    | µA   |
| ΔI <sub>CC</sub> | additional supply current | V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 2.3 V to 5.5 V [2] | -                                   | 5       | 500  | -                                    | 500  | µA   |
| C <sub>I</sub>   | input capacitance         |  | -                                   | 3.5     | -    | -                                    | -    | pF   |

[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.

### 11.1. Transfer characteristics

**Table 8. Transfer characteristics**

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

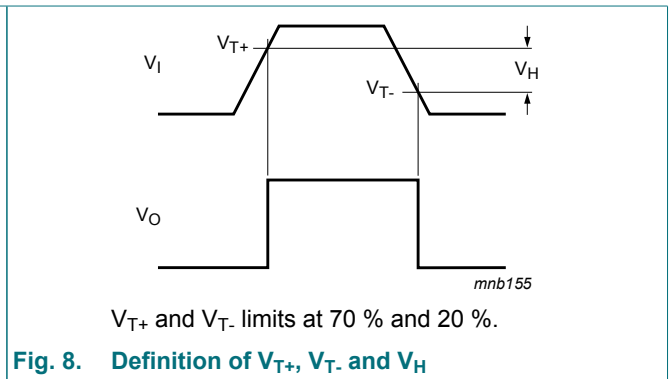
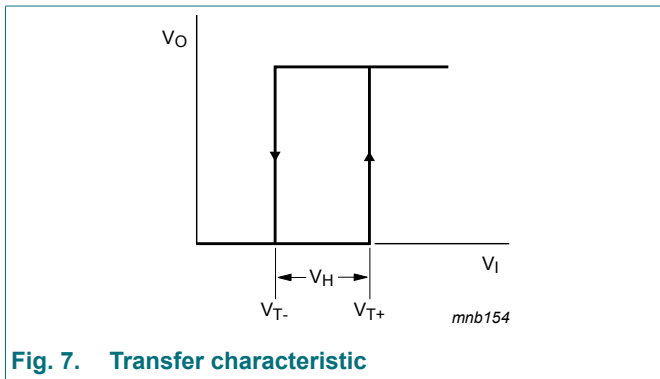
| Symbol          | Parameter                        | Conditions              | -40 °C to +85 °C |         |      | -40 °C to +125 °C |      | Unit |
|-----------------|----------------------------------|-------------------------|------------------|---------|------|-------------------|------|------|
|                 |                                  |                         | Min              | Typ [1] | Max  | Min               | Max  |      |
| V <sub>T+</sub> | positive-going threshold voltage | see Fig. 7 and Fig. 8   |                  |         |      |                   |      |      |
|                 |                                  | 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    |

Triple non-inverting Schmitt trigger with 5 V tolerant input

| Symbol          | Parameter                        | Conditions   | -40 °C to +85 °C |         |      | -40 °C to +125 °C |      | Unit |
|-----------------|----------------------------------|--|------------------|---------|------|-------------------|------|------|
|                 |                                  |  | Min              | Typ [1] | Max  | Min               | Max  |      |
| V <sub>T-</sub> | negative-going threshold voltage | see <a href="#">Fig. 7</a> and <a href="#">Fig. 8</a>  |                  |         |      |                   |      |      |
|                 |                                  | 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 <a href="#">Fig. 7</a> , <a href="#">Fig. 8</a> and <a href="#">Fig. 9</a> |                  |         |      |                   |      |      |
|                 |                                  | 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    |

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

11.2. Waveforms transfer characteristics



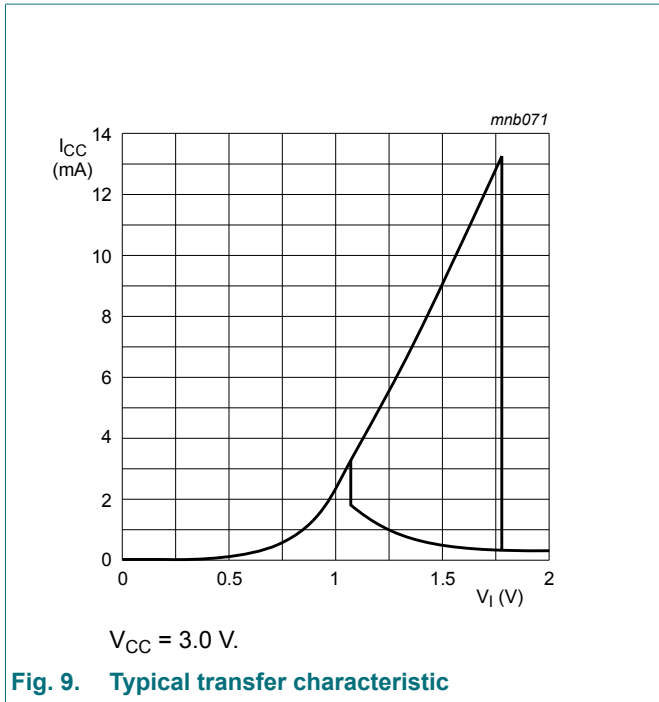


Fig. 9. Typical transfer characteristic

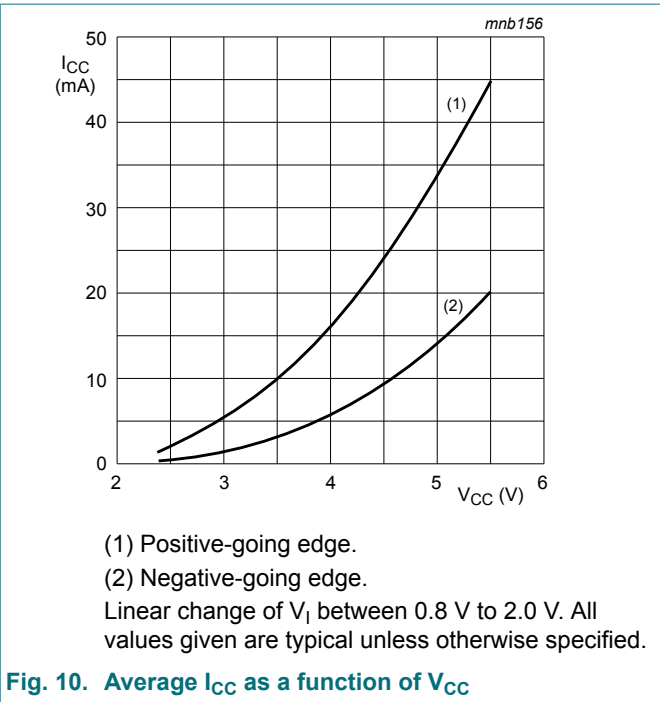


Fig. 10. Average  $I_{CC}$  as a function of  $V_{CC}$

## 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  |      |
| $t_{pd}$ | propagation delay             | nA to nY; see Fig. 11 [2]   |                  |         |      |                   |      |      |
|          |                               | $V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$                          | 1.5              | 5.6     | 10.5 | 1.5               | 13.1 | ns   |
|          |                               | $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$                            | 1.0              | 3.7     | 6.5  | 1.0               | 8.5  | ns   |
|          |                               | $V_{CC} = 2.7 \text{ V}$  | 1.0              | 3.8     | 6.5  | 1.0               | 8.5  | ns   |
|          |                               | $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$                            | 1.0              | 3.6     | 5.7  | 1.0               | 7.1  | ns   |
|          |                               | $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$                            | 1.0              | 2.7     | 4.3  | 1.0               | 5.4  | ns   |
| $C_{PD}$ | power dissipation capacitance | per buffer; $V_{CC} = 3.3 \text{ V}; V_1 = \text{GND to } V_{CC}$ [3] | -                | 16.3    | -    | -                 | -    | pF   |

[1] Typical values are measured at  $T_{amb} = 25 \text{ °C}$  and  $V_{CC} = 1.8 \text{ V}, 2.5 \text{ V}, 2.7 \text{ V}, 3.3 \text{ V}$  and  $5.0 \text{ V}$  respectively.

[2]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .

[3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu\text{W}$ ).

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

$f_i$  = input frequency in MHz;

$f_o$  = output frequency in MHz;

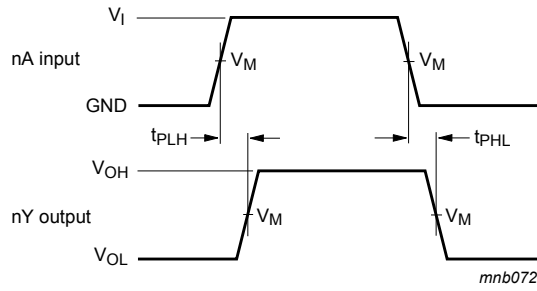
$C_L$  = output load capacitance in pF;

$V_{CC}$  = supply voltage in V;

$N$  = number of inputs switching;

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

12.1. Waveforms and test circuit

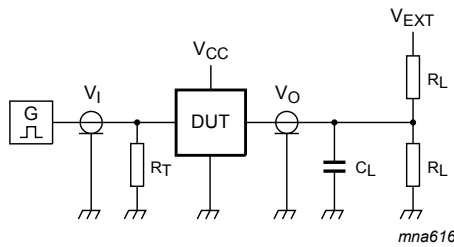


Measurement points are given in [Table 10](#).  
 $V_{OL}$  and  $V_{OH}$  are typical output voltage levels that occur with the output load.

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

Table 10. Measurement points

| Supply voltage   | Input               | Output              |
|------------------|---------------------|---------------------|
| $V_{CC}$         | $V_M$               | $V_M$               |
| 1.65 V to 1.95 V | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ |
| 2.3 V to 2.7 V   | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ |
| 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   | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ |



Test data is given in [Table 11](#).  
 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 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  |              | $V_{EXT}$          |                    |                    |
|------------------|----------|---------------|-------|--------------|--------------------|--------------------|--------------------|
|                  | $V_I$    | $t_r, t_f$    | $C_L$ | $R_L$        | $t_{PLH}, t_{PHL}$ | $t_{PZH}, t_{PHZ}$ | $t_{PZL}, t_{PLZ}$ |
| 1.65 V to 1.95 V | $V_{CC}$ | $\leq 2.0$ ns | 30 pF | 1 k $\Omega$ | open               | GND                | $2 \times V_{CC}$  |
| 2.3 V to 2.7 V   | $V_{CC}$ | $\leq 2.0$ ns | 30 pF | 500 $\Omega$ | open               | GND                | $2 \times V_{CC}$  |
| 2.7 V            | 2.7 V    | $\leq 2.5$ ns | 50 pF | 500 $\Omega$ | open               | GND                | 6 V                |
| 3.0 V to 3.6 V   | 2.7 V    | $\leq 2.5$ ns | 50 pF | 500 $\Omega$ | open               | GND                | 6 V                |
| 4.5 V to 5.5 V   | $V_{CC}$ | $\leq 2.5$ ns | 50 pF | 500 $\Omega$ | open               | GND                | $2 \times V_{CC}$  |



13. Package outline

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

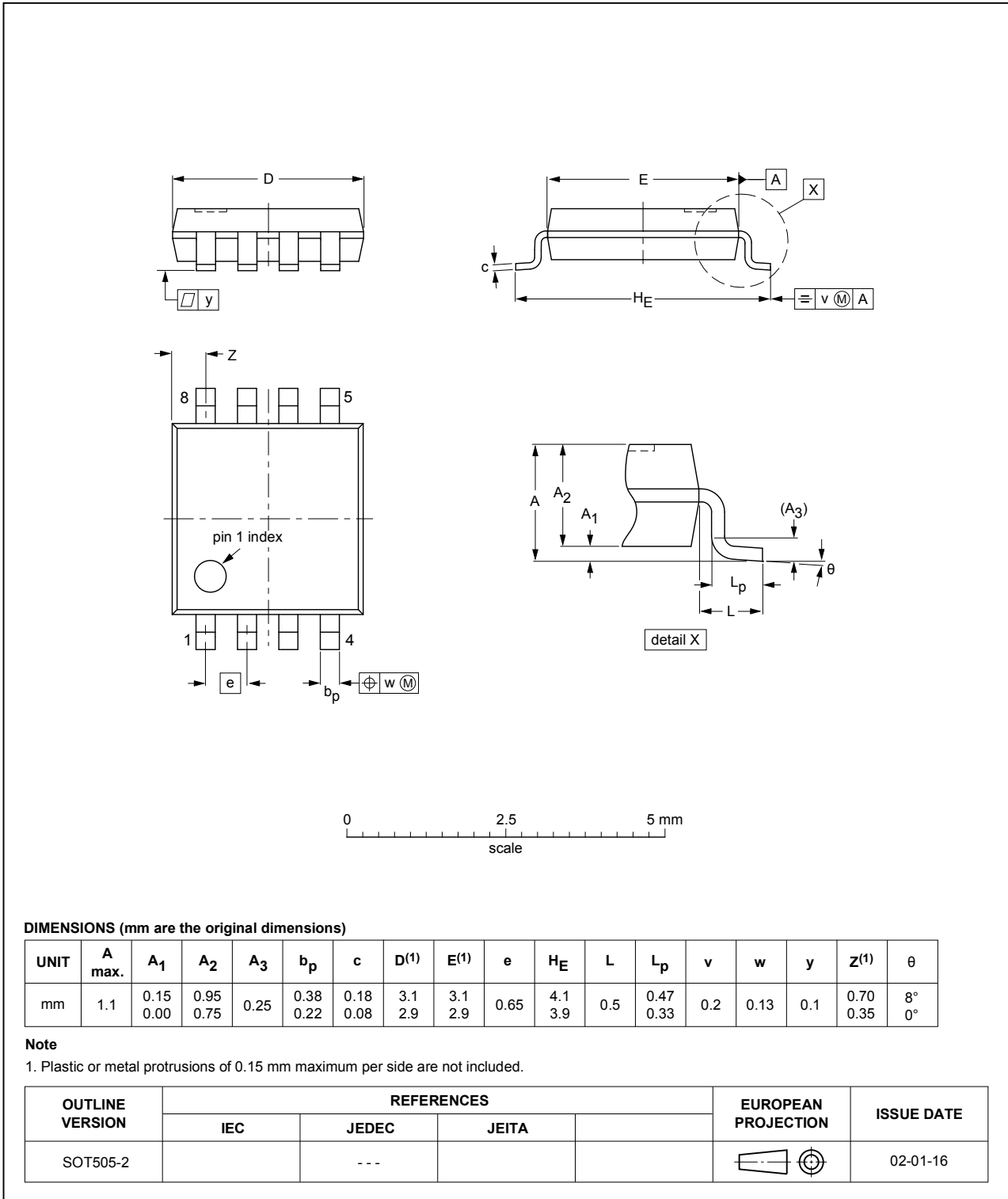


Fig. 13. Package outline SOT505-2 (TSSOP8)

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

SOT765-1



Fig. 14. 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. 15. 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. 16. Package outline SOT1089 (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. 17. 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. 18. 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. 19. Package outline SOT1203 (XSON8)

## 14. Abbreviations

Table 12. 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 13. Revision history

| Document ID    | Release date  | Data sheet status     | Change notice | Supersedes     |
|----------------|---|-----------------------|---------------|----------------|
| 74LVC3G17 v.13 | 20181127  | Product data sheet    | -             | 74LVC3G17 v.12 |
| 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> <li>Type numbers 74LVC3G17GD (SOT996-2) removed.</li> </ul> |                       |               |                |
| 74LVC3G17 v.12 | 20161215  | Product data sheet    | -             | 74LVC3G17 v.11 |
| 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>  |                       |               |                |
| 74LVC3G17 v.11 | 20130409  | Product data sheet    | -             | 74LVC3G17 v.10 |
| Modifications: | <ul style="list-style-type: none"> <li>For type number 74LVC3G17GD XSON8U has changed to XSON8.</li> </ul>  |                       |               |                |
| 74LVC3G17 v.10 | 20120706  | Product data sheet    | -             | 74LVC3G17 v.9  |
| Modifications: | <ul style="list-style-type: none"> <li>For type number 74LVC3G17GM the SOT code has changed to SOT902-2.</li> </ul>   |                       |               |                |
| 74LVC3G17 v.9  | 20111123  | Product data sheet    | -             | 74LVC3G17 v.8  |
| Modifications: | <ul style="list-style-type: none"> <li>Legal pages updated.</li> </ul>  |                       |               |                |
| 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 | -             | -              |



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| Document status [1][2]         | Product status [3] | Definition  |
|--------------------------------|--------------------|---|
| Objective [short] data sheet   | Development        | This document contains data from the objective specification for product development. |
| Preliminary [short] data sheet | Qualification      | This document contains data from the preliminary specification.                       |
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- [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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## Contents

|   |           |
|---|-----------|
| <b>1. General description</b> .....               | <b>1</b>  |
| <b>2. Features and benefits</b> .....             | <b>1</b>  |
| <b>3. Applications</b> .....                      | <b>1</b>  |
| <b>4. Ordering information</b> .....              | <b>2</b>  |
| <b>5. Marking</b> .....                           | <b>2</b>  |
| <b>6. Functional diagram</b> .....                | <b>2</b>  |
| <b>7. Pinning information</b> .....               | <b>3</b>  |
| 7.1. Pinning.....                                 | 3         |
| 7.2. Pin description.....                         | 3         |
| <b>8. Functional description</b> .....            | <b>3</b>  |
| <b>9. Limiting values</b> .....                   | <b>4</b>  |
| <b>10. Recommended operating conditions</b> ..... | <b>4</b>  |
| <b>11. Static characteristics</b> .....           | <b>5</b>  |
| 11.1. Transfer characteristics.....               | 5         |
| 11.2. Waveforms transfer characteristics.....     | 6         |
| <b>12. Dynamic characteristics</b> .....          | <b>7</b>  |
| 12.1. Waveforms and test circuit.....             | 8         |
| <b>13. Package outline</b> .....                  | <b>9</b>  |
| <b>14. Abbreviations</b> .....                    | <b>16</b> |
| <b>15. Revision history</b> .....                 | <b>16</b> |
| <b>16. Legal information</b> .....                | <b>17</b> |

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[74LVC3G17GM,125](#) [74LVC3G17GT,115](#) [74LVC3G17GF,115](#)