

# 74LVC2G240

Dual inverting buffer/line driver; 3-state

Rev. 11 — 30 July 2019

Product data sheet

## 1. General description

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The 74LVC2G240 is a dual inverting buffer/line driver with 3-state outputs. The 3-state outputs are controlled by the output enable inputs  $1\overline{OE}$  and  $2\overline{OE}$ . A HIGH level at pins  $n\overline{OE}$  causes the outputs to assume a high-impedance OFF-state. Schmitt trigger action at all inputs makes the circuit highly tolerant of slower input rise and fall times.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of the 74LVC2G240 as a translator in a mixed 3.3 V and 5 V environment.

It 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
- $\pm 24$  mA output drive ( $V_{CC} = 3.0$  V)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- 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           |        |   | Version  |
|--------------|-------------------|--------|---|----------|
|              | Temperature range | Name   | Description   |          |
| 74LVC2G240DP | -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 |
| 74LVC2G240DC | -40 °C to +125 °C | VSSOP8 | plastic very thin shrink small outline package; 8 leads; body width 2.3 mm                  | SOT765-1 |
| 74LVC2G240GT | -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 |
| 74LVC2G240GF | -40 °C to +125 °C | XSON8  | extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm         | SOT1089  |
| 74LVC2G240GN | -40 °C to +125 °C | XSON8  | extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm       | SOT1116  |
| 74LVC2G240GS | -40 °C to +125 °C | XSON8  | extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm      | SOT1203  |

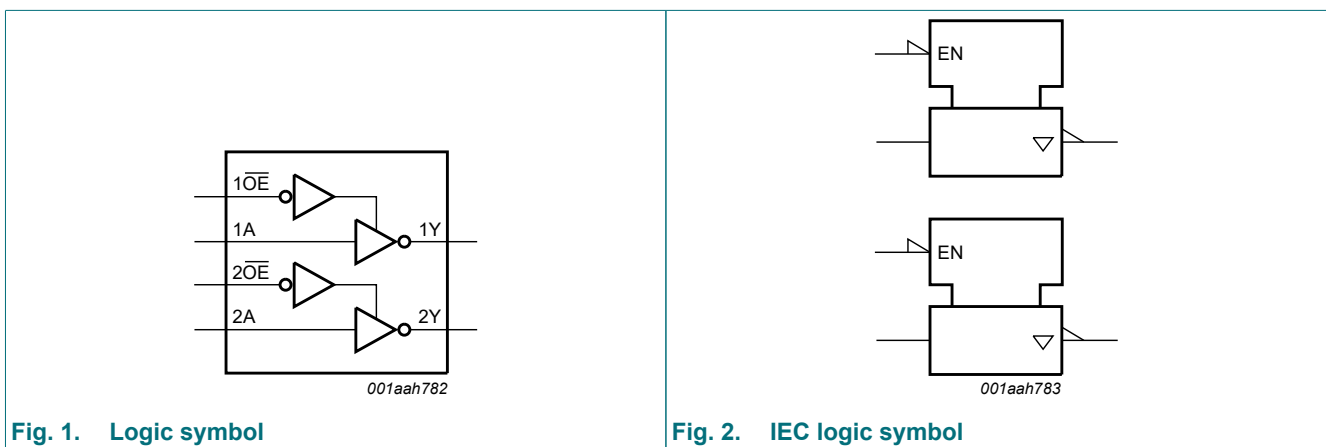
### 4. Marking

Table 2. Marking codes

| Type number  | Marking code [1] |
|--------------|------------------|
| 74LVC2G240DP | V240             |
| 74LVC2G240DC | V40              |
| 74LVC2G240GT | V40              |
| 74LVC2G240GF | V2               |
| 74LVC2G240GN | V2               |
| 74LVC2G240GS | V2               |

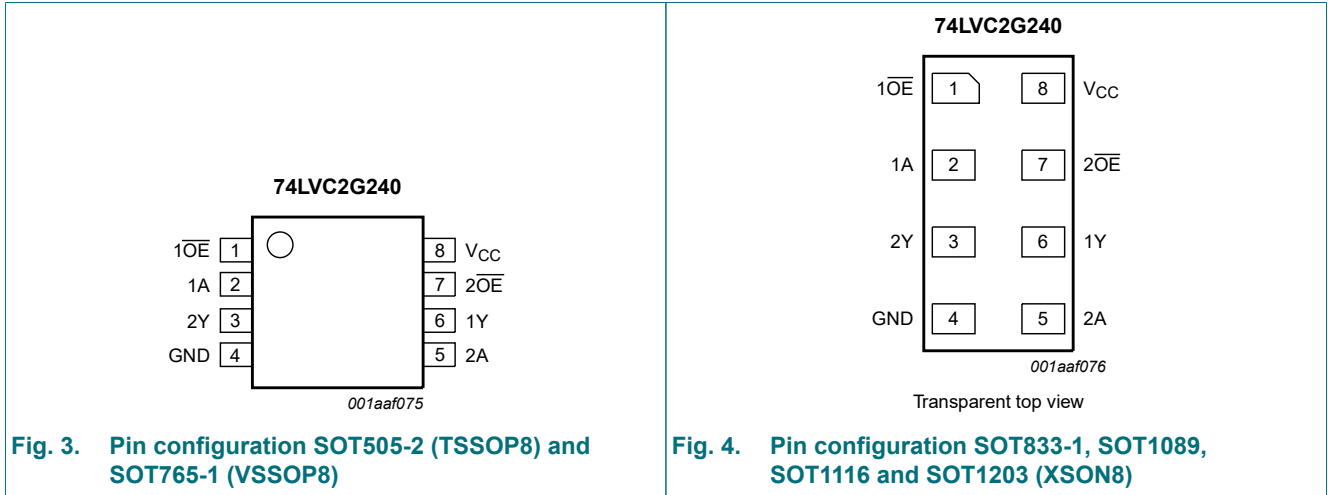
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

### 5. Functional diagram



## 6. Pinning information

### 6.1. Pinning



### 6.2. Pin description

Table 3. Pin description

| Symbol          | Pin | Description                          |
|-----------------|-----|--------------------------------------|
| 1OE             | 1   | output enable input 1OE (active LOW) |
| 1A              | 2   | data input                           |
| 2Y              | 3   | data output                          |
| GND             | 4   | ground (0 V)                         |
| 2A              | 5   | data input                           |
| 1Y              | 6   | data output                          |
| 2OE             | 7   | output enable input 2OE (active LOW) |
| V <sub>CC</sub> | 8   | supply voltage                       |

## 7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state.

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

## 8. Limiting values

**Table 5. Limiting values**

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

| Symbol    | Parameter               | Conditions                      | Min      | Max            | Unit |
|-----------|-------------------------|---------------------------------|----------|----------------|------|
| $V_{CC}$  | supply voltage          |                                 | -0.5     | +6.5           | V    |
| $I_{IK}$  | input clamping current  | $V_I < 0$ V                     | -50      | -              | mA   |
| $V_I$     | input voltage           |                                 | [1] -0.5 | +6.5           | V    |
| $I_{OK}$  | output clamping current | $V_O > V_{CC}$ or $V_O < 0$ V   | -        | ±50            | mA   |
| $V_O$     | output voltage          | Enable mode                     | [1] -0.5 | $V_{CC} + 0.5$ | V    |
|           |                         | Disable mode                    | [1] -0.5 | +6.5           | V    |
|           |                         | Power-down mode; $V_{CC} = 0$ V | [1] -0.5 | +6.5           | V    |
| $I_O$     | output current          | $V_O = 0$ V to $V_{CC}$         | -        | ±50            | mA   |
| $I_{CC}$  | supply current          |                                 | -        | 100            | mA   |
| $I_{GND}$ | ground current          |                                 | -100     | -              | mA   |
| $T_{stg}$ | storage temperature     |                                 | -65      | +150           | °C   |
| $P_{tot}$ | total power dissipation | $T_{amb} = -40$ °C to +125 °C   | [2] -    | 250            | mW   |

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

[2] For SOT505-2 (TSSOP8) packages:  $P_{tot}$  derates linearly with 4.6 mW/K above 96 °C.  
 For SOT765-1 (VSSOP8) packages:  $P_{tot}$  derates linearly with 4.9 mW/K above 99 °C.  
 For SOT833-1 (XSON8) packages:  $P_{tot}$  derates linearly with 3.1 mW/K above 68 °C.  
 For SOT1089 (XSON8) packages:  $P_{tot}$  derates linearly with 4.0 mW/K above 88 °C.  
 For SOT1116 (XSON8) packages:  $P_{tot}$  derates linearly with 4.2 mW/K above 90 °C.  
 For SOT1203 (XSON8) packages:  $P_{tot}$  derates linearly with 3.6 mW/K above 81 °C.

## 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                      | $V_{CC} = 1.65$ V to 5.5 V; Enable mode  | 0    | $V_{CC}$ | V    |
|                     |                                     | $V_{CC} = 1.65$ V to 5.5 V; Disable mode | 0    | 5.5      | V    |
|                     |                                     | $V_{CC} = 0$ V; Power-down mode          | 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   | 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>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>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   | -                                   | -       | 0.1                 | -                                    | 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    |
|                  |                           | I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V  | -                                   | -       | 0.55                | -                                    | 0.80                | 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    |
|                  |                           | I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V   | 3.8                                 | -       | -                   | 3.4                                  | -                   | 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   |
| 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> = 5.5 V or GND; V <sub>CC</sub> = 3.6 V | -                                   | ±0.1    | ±2                  | -                                    | ±2                  | 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                       | -                                   | 0.1     | 4                   | -                                    | 4                   | 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; V <sub>CC</sub> = 2.3 V to 5.5 V    | -                                   | 5       | 500                 | -                                    | 500                 | μA   |
| C <sub>I</sub>   | input capacitance         |  | -                                   | 2       | -                   | -                                    | -                   | pF   |

[1] 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 Fig. 7.

| 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  |      |
| t <sub>pd</sub>  | propagation delay             | nA to nY; see Fig. 5 [2]                                |                                     |         |      |                                      |      |      |
|                  |                               | V <sub>CC</sub> = 1.65 V to 1.95 V                      | 1.0                                 | 4.1     | 9.5  | 1.0                                  | 11.9 | ns   |
|                  |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                        | 0.5                                 | 2.6     | 5.2  | 0.5                                  | 6.5  | ns   |
|                  |                               | V <sub>CC</sub> = 2.7 V                                 | 1.0                                 | 3.0     | 5.5  | 1.0                                  | 6.9  | ns   |
|                  |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                        | 0.5                                 | 2.5     | 4.6  | 0.5                                  | 5.8  | ns   |
| t <sub>en</sub>  | enable time                   | n $\overline{\text{OE}}$ to nY; see Fig. 6 [3]          |                                     |         |      |                                      |      |      |
|                  |                               | V <sub>CC</sub> = 1.65 V to 1.95 V                      | 1.5                                 | 4.5     | 10.3 | 1.5                                  | 12.9 | ns   |
|                  |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                        | 1.0                                 | 2.9     | 5.6  | 1.0                                  | 7.0  | ns   |
|                  |                               | V <sub>CC</sub> = 2.7 V                                 | 1.5                                 | 3.4     | 5.6  | 1.5                                  | 7.0  | ns   |
|                  |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                        | 0.5                                 | 2.5     | 4.7  | 0.5                                  | 5.9  | ns   |
| t <sub>dis</sub> | disable time                  | n $\overline{\text{OE}}$ to nY; see Fig. 6 [4]          |                                     |         |      |                                      |      |      |
|                  |                               | V <sub>CC</sub> = 1.65 V to 1.95 V                      | 1.0                                 | 3.5     | 11.6 | 1.0                                  | 14.1 | ns   |
|                  |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                        | 0.5                                 | 1.9     | 5.8  | 0.5                                  | 7.6  | ns   |
|                  |                               | V <sub>CC</sub> = 2.7 V                                 | 1.0                                 | 2.8     | 4.5  | 1.0                                  | 5.8  | ns   |
|                  |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                        | 1.0                                 | 2.7     | 4.4  | 1.0                                  | 5.7  | ns   |
| C <sub>PD</sub>  | power dissipation capacitance | per buffer; V <sub>I</sub> = GND to V <sub>CC</sub> [5] |                                     |         |      |                                      |      |      |
|                  |                               | output enabled  | -                                   | 18      | -    | -                                    | -    | pF   |
|                  |                               | output disabled   | -                                   | 5       | -    | -                                    | -    | pF   |

[1] Typical values are measured at nominal V<sub>CC</sub> and at T<sub>amb</sub> = 25 °C.

[2] t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>

[3] t<sub>en</sub> is the same as t<sub>PZH</sub> and t<sub>PZL</sub>

[4] t<sub>dis</sub> is the same as t<sub>PLZ</sub> and t<sub>PHZ</sub>

[5] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in  $\mu\text{W}$ ).

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

f<sub>i</sub> = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

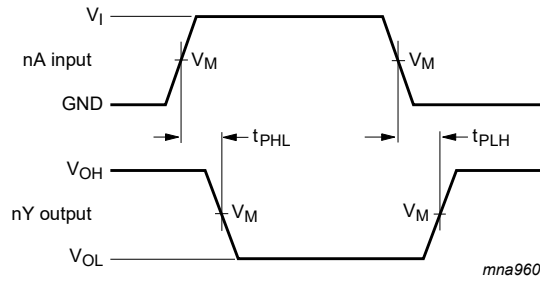
C<sub>L</sub> = output load capacitance in pF;

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

N = number of inputs switching;

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

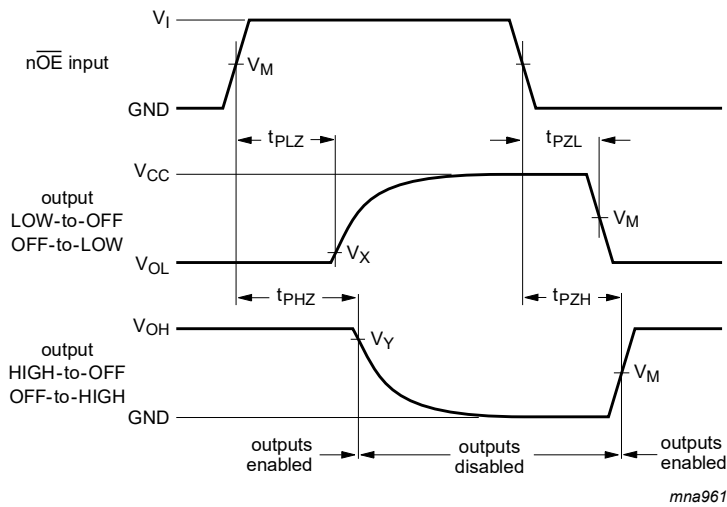
11.1. Waveforms and test circuit



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

Logic levels:  $V_{OL}$  and  $V_{OH}$  are typical output voltage levels that occur with the output load.

Fig. 5. The data input (nA) to output (nY) propagation delays



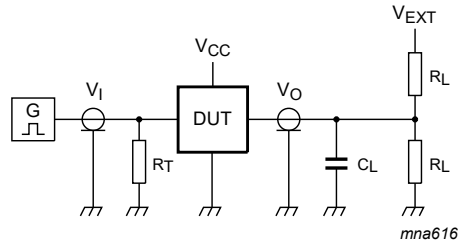
Measurement points are given in [Table 9](#).

Logic levels:  $V_{OL}$  and  $V_{OH}$  are typical output voltage levels that occur with the output load.

Fig. 6. 3-state enable and disable times

Table 9. Measurement points

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



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. 7. Test circuit for measuring switching times**

**Table 10. Test data**

| Supply voltage   | Input    | Load  |              | $V_{EXT}$             |                       |                       |
|------------------|----------|-------|--------------|-----------------------|-----------------------|-----------------------|
| $V_{CC}$         | $V_I$    | $C_L$ | $R_L$        | $t_{PLH}$ , $t_{PHL}$ | $t_{PZH}$ , $t_{PHZ}$ | $t_{PZL}$ , $t_{PLZ}$ |
| 1.65 V to 1.95 V | $V_{CC}$ | 30 pF | 1 k $\Omega$ | open                  | GND                   | $2 \times V_{CC}$     |
| 2.3 V to 2.7 V   | $V_{CC}$ | 30 pF | 500 $\Omega$ | open                  | GND                   | $2 \times V_{CC}$     |
| 2.7 V            | 2.7 V    | 50 pF | 500 $\Omega$ | open                  | GND                   | 6 V                   |
| 3.0 V to 3.6 V   | 2.7 V    | 50 pF | 500 $\Omega$ | open                  | GND                   | 6 V                   |
| 4.5 V to 5.5 V   | $V_{CC}$ | 50 pF | 500 $\Omega$ | open                  | GND                   | $2 \times V_{CC}$     |



## 12. Package outline

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

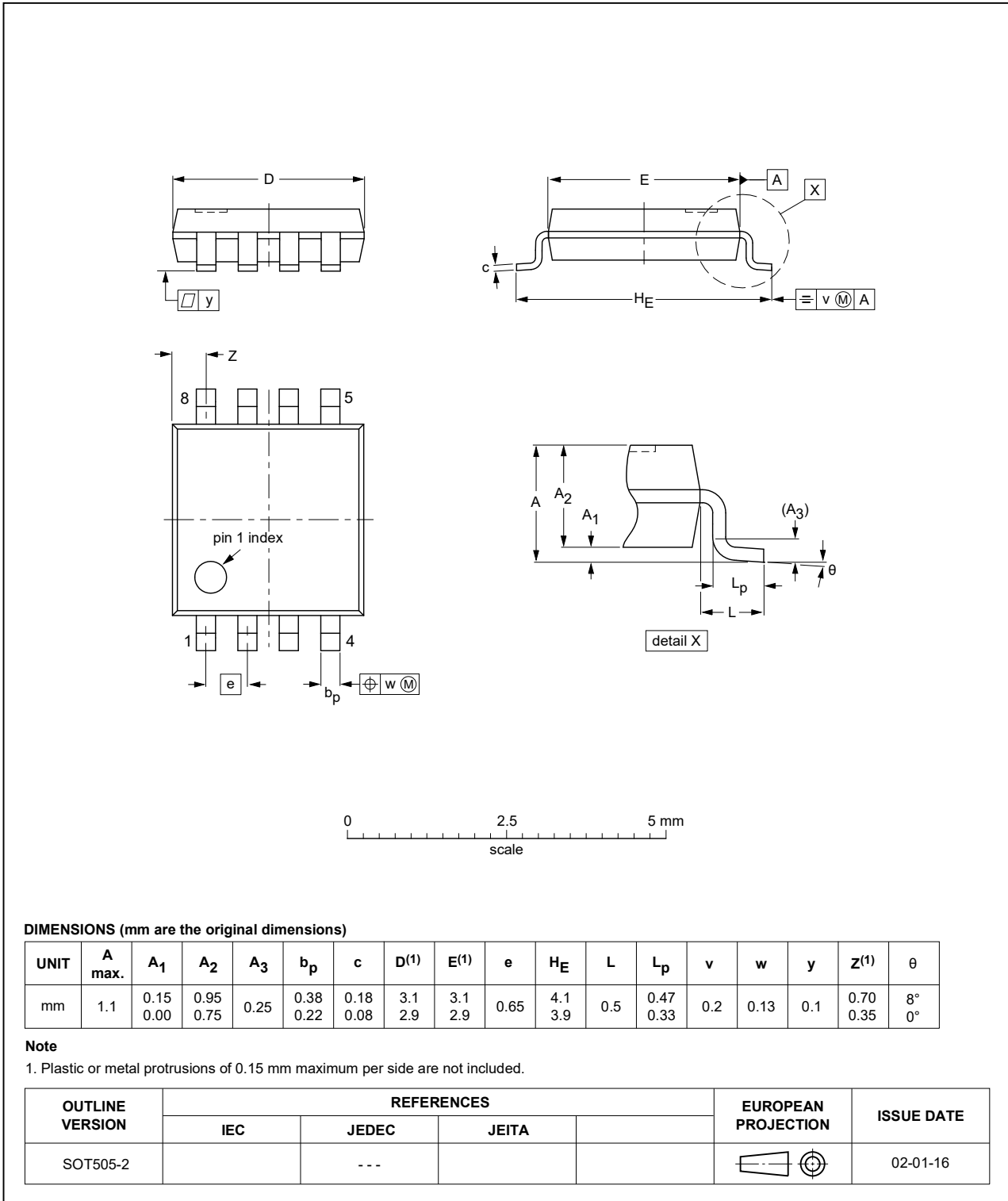


Fig. 8. Package outline SOT505-2 (TSSOP8)

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

SOT765-1



Fig. 9. 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. 10. 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

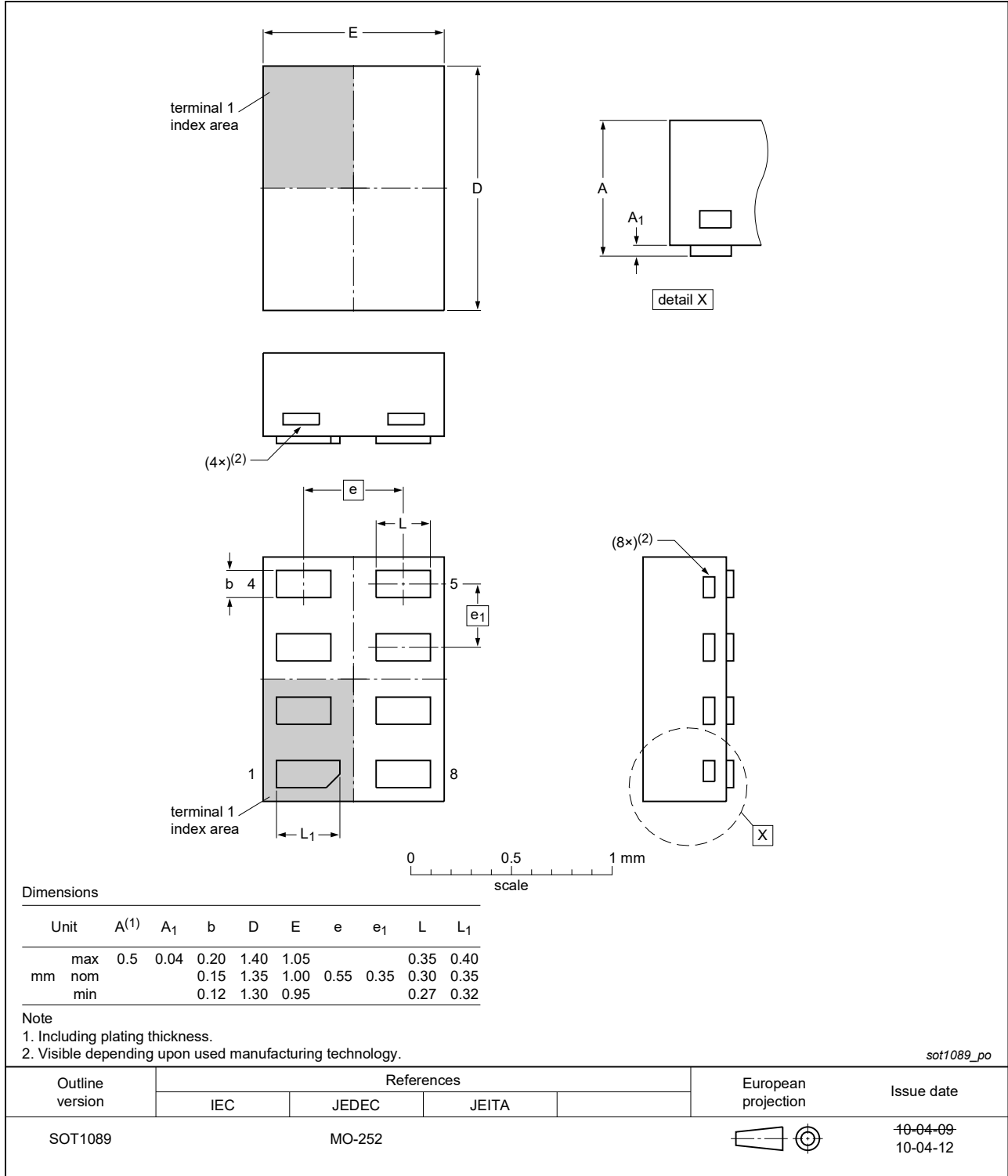


Fig. 11. Package outline SOT1089 (XSON8)

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

SOT1116



Fig. 12. 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

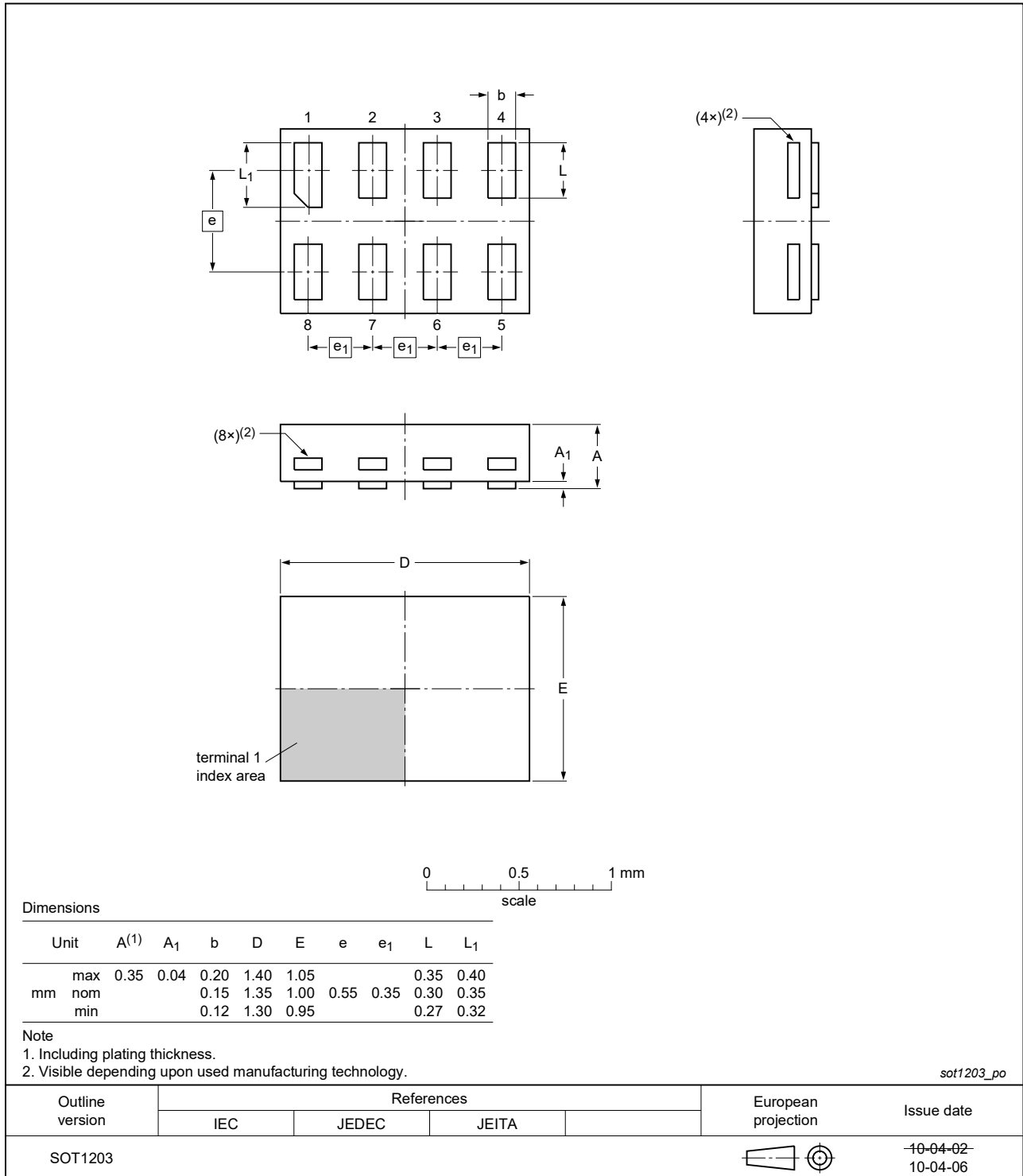


Fig. 13. Package outline SOT1203 (XSON8)

## 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      |
|-----------------|---|-----------------------|---------------|-----------------|
| 74LVC2G240 v.11 | 20190730  | Product data sheet    | -             | 74LVC2G240 v.10 |
| Modifications:  | <ul style="list-style-type: none"> <li>Type number 74LVC2G240GM (SOT902-2/XQFN8) removed.</li> <li><a href="#">Table 5</a>: Derating values for <math>P_{tot}</math> total power dissipation updated.</li> </ul>  |                       |               |                 |
| 74LVC2G240 v.10 | 20181101  | Product data sheet    | -             | 74LVC2G240 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> <li>Type number 74LVC2G240GD (SOT996-2) removed.</li> </ul> |                       |               |                 |
| 74LVC2G240 v.9  | 20161215  | Product data sheet    | -             | 74LVC2G240 v.8  |
| Modifications:  | <ul style="list-style-type: none"> <li><a href="#">Table 7</a>: The maximum limits for leakage current and supply current have changed.</li> </ul>  |                       |               |                 |
| 74LVC2G240 v.8  | 20130408  | Product data sheet    | -             | 74LVC2G240 v.7  |
| Modifications:  | <ul style="list-style-type: none"> <li>For type number 74LVC2G240GD XSON8U has changed to XSON8.</li> </ul>   |                       |               |                 |
| 74LVC2G240 v.7  | 20120622  | Product data sheet    | -             | 74LVC2G240 v.6  |
| Modifications:  | <ul style="list-style-type: none"> <li>For type number 74LVC2G240GM the SOT code has changed to SOT902-2.</li> </ul>  |                       |               |                 |
| 74LVC2G240 v.6  | 20111128  | Product data sheet    | -             | 74LVC2G240 v.5  |
| Modifications:  | <ul style="list-style-type: none"> <li>Legal pages updated.</li> </ul>  |                       |               |                 |
| 74LVC2G240 v.5  | 20100915  | Product data sheet    | -             | 74LVC2G240 v.4  |
| 74LVC2G240 v.4  | 20080229  | Product data sheet    | -             | 74LVC2G240 v.3  |
| 74LVC2G240 v.3  | 20071005  | Product data sheet    | -             | 74LVC2G240 v.2  |
| 74LVC2G240 v.2  | 20060728  | Product data sheet    | -             | 74LVC2G240 v.1  |
| 74LVC2G240 v.1  | 20030311  | Product specification | -             | -               |

## 15. Legal information

### Data sheet status

| 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.                       |
| 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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