

# 74LVC2G06

Inverters with open-drain outputs

Rev. 9 — 24 January 2022

Product data sheet

## 1. General description

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The 74LVC2G06 is a dual inverter with open-drain outputs. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments. Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times. This device is fully specified for partial power down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the potentially 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
- Overvoltage tolerant inputs to 5.5 V
- 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)
  - JESD8C (2.7 V to 3.6 V)
  - JESD36 (4.5 V to 5.5 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
- 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  |           |
| 74LVC2G06GW | -40 °C to +125 °C | TSSOP6       | plastic thin shrink small outline package; 6 leads; body width 1.25 mm   | SOT363-2  |
| 74LVC2G06GV | -40 °C to +125 °C | SC-74; TSOP6 | plastic surface-mounted package; 6 leads   | SOT457    |
| 74LVC2G06GM | -40 °C to +125 °C | XSON6        | plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm                    | SOT886    |
| 74LVC2G06GN | -40 °C to +125 °C | XSON6        | extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm                          | SOT1115   |
| 74LVC2G06GS | -40 °C to +125 °C | XSON6        | extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm                          | SOT1202   |
| 74LVC2G06GX | -40 °C to +125 °C | X2SON6       | plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm | SOT1255-2 |

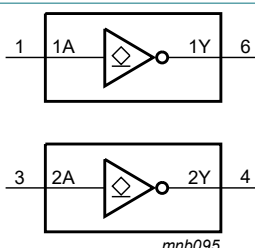
### 4. Marking

Table 2. Marking

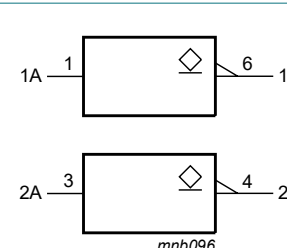
| Type number | Marking code <sup>[1]</sup> |
|-------------|-----------------------------|
| 74LVC2G06GW | V6                          |
| 74LVC2G06GV | V06                         |
| 74LVC2G06GM | V6                          |
| 74LVC2G06GN | V6                          |
| 74LVC2G06GS | V6                          |
| 74LVC2G06GX | V6                          |

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

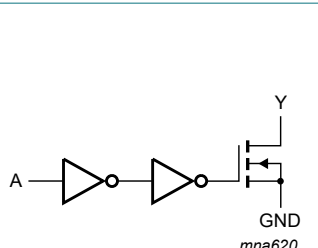
### 5. Functional diagram



**Fig. 1. Logic symbol**



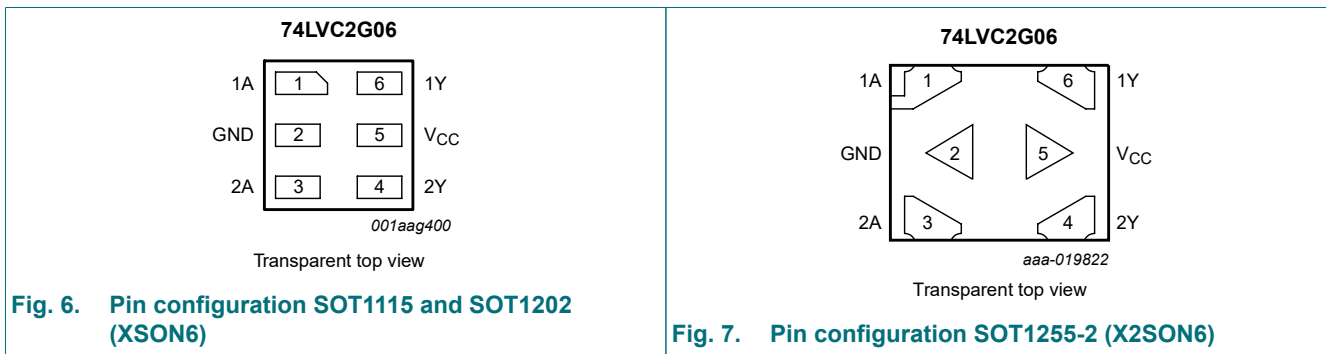
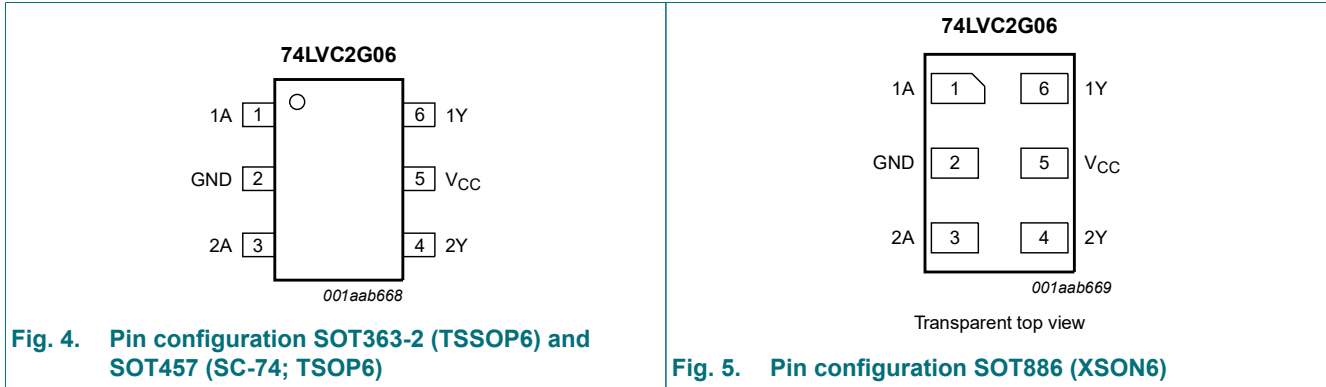
**Fig. 2. IEC logic symbol**



**Fig. 3. Logic diagram (one inverter)**

## 6. Pinning information

### 6.1. Pinning



### 6.2. Pin description

Table 3. Pin description

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

## 7. Functional description

Table 4. Function table

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

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

## 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; $V_{CC} = 0$ V | [1] -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   | [2] -    | 250  | mW   |

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

[2] For SOT363-2 (TSSOP6) package:  $P_{tot}$  derates linearly with 3.7 mW/K above 83 °C.

For SOT457 (SC-74; TSOP6) package:  $P_{tot}$  derates linearly with 4.1 mW/K above 89 °C.

For SOT886 (XSON6) package:  $P_{tot}$  derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package:  $P_{tot}$  derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package:  $P_{tot}$  derates linearly with 3.3 mW/K above 74 °C.

For SOT1255-2 (X2SON6) package:  $P_{tot}$  derates linearly with 3.3 mW/K above 75 °C.

## 9. Recommended operating conditions

**Table 6. Recommended operating conditions**

| Symbol              | Parameter                           | Conditions                      | Min  | Typ | Max  | Unit |
|---------------------|-------------------------------------|---------------------------------|------|-----|------|------|
| $V_{CC}$            | supply voltage                      |                                 | 1.65 | -   | 5.5  | V    |
| $V_I$               | input voltage                       |                                 | 0    | -   | 5.5  | V    |
| $V_O$               | output voltage                      | Active mode                     | 0    | -   | 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[1] | Max                    | Unit |
|---|---------------------------|--|------------------------|--------|------------------------|------|
| <b>T<sub>amb</sub> = -40 °C to +85 °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   | -                      | -      | 0.1                    | 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   | -                      | -      | 0.3                    | V    |
|   |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V  | -                      | -      | 0.4                    | 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; V <sub>CC</sub> = 0 V to 5.5 V [2]  | -                      | ±0.1   | ±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> = V <sub>CC</sub> or GND; V <sub>CC</sub> = 5.5 V | -                      | ±0.1   | ±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                     | 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                      | 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 [2]          | -                      | 5      | 500                    | μA   |
| C <sub>I</sub>                                  | input capacitance         |  | -                      | 2.5    | -                      | pF   |

| Symbol                                     | Parameter                 | Conditions   | Min                    | Typ[1] | 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>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V  | -                      | -      | 0.80                   | V    |
| I <sub>I</sub>                             | input leakage current     | V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V  | -                      | -      | ±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> = V <sub>CC</sub> or GND; V <sub>CC</sub> = 5.5 V | -                      | -      | ±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  | -                      | -      | ±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                                 | -                      | -      | 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              | -                      | -      | 500                    | 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 Fig. 9.

| 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 delay             | nA to nY; see Fig. 8 [2]  |                  |        |     |                   |     |      |
|                 |                               | V <sub>CC</sub> = 1.65 V to 1.95 V                                    | 1.0              | 3.2    | 6.5 | 1.0               | 8.2 | ns   |
|                 |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                                      | 0.5              | 2.0    | 3.9 | 0.5               | 4.9 | ns   |
|                 |                               | V <sub>CC</sub> = 2.7 V   | 1.0              | 2.6    | 4.2 | 1.0               | 5.3 | ns   |
|                 |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                                      | 0.5              | 2.3    | 3.4 | 0.5               | 4.3 | ns   |
|                 |                               | V <sub>CC</sub> = 4.5 V to 5.5 V                                      | 0.5              | 1.6    | 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 [3] | -                | 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).

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

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

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

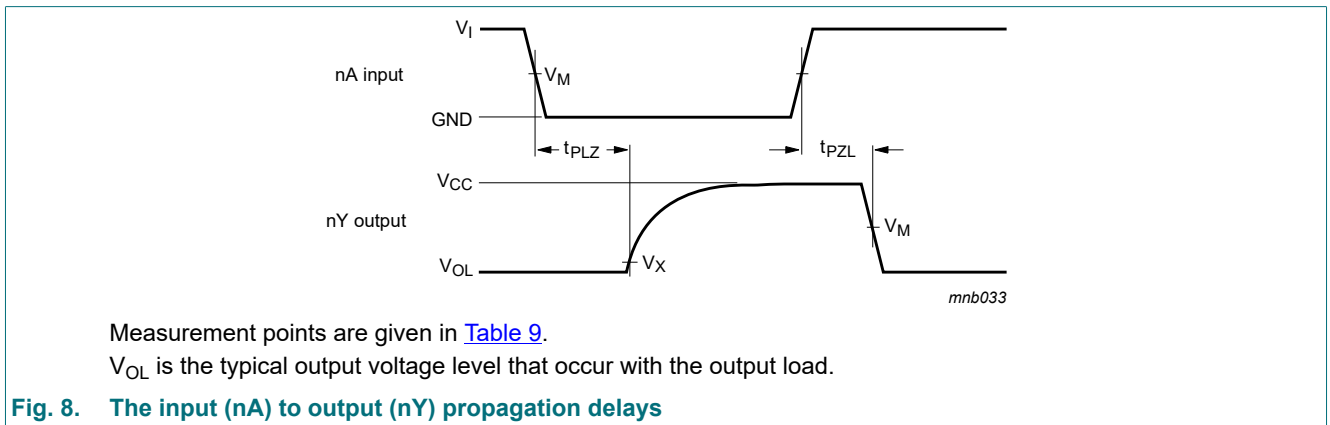
C<sub>L</sub> = output load capacitance in pF;

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

N = number of inputs switching;

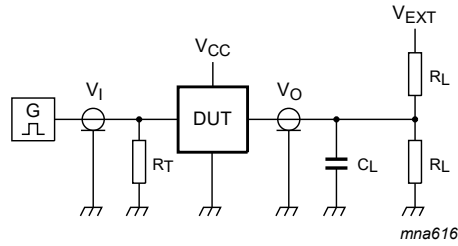
∑(C<sub>L</sub> × V<sub>CC</sub><sup>2</sup> × f<sub>o</sub>) = sum of outputs.

### 11.1. Waveform and test circuit



**Table 9. Measurement points**

| Supply voltage   | Input                 | Output                |                          |
|------------------|-----------------------|-----------------------|--------------------------|
| V <sub>CC</sub>  | V <sub>M</sub>        | V <sub>M</sub>        | V <sub>X</sub>           |
| 1.65 V to 1.95 V | 0.5 × V <sub>CC</sub> | 0.5 × V <sub>CC</sub> | V <sub>OL</sub> + 0.15 V |
| 2.3 V to 2.7 V   | 0.5 × V <sub>CC</sub> | 0.5 × V <sub>CC</sub> | V <sub>OL</sub> + 0.15 V |
| 2.7 V            | 1.5 V                 | 1.5 V                 | V <sub>OL</sub> + 0.3 V  |
| 3.0 V to 3.6 V   | 1.5 V                 | 1.5 V                 | V <sub>OL</sub> + 0.3 V  |
| 4.5 V to 5.5 V   | 0.5 × V <sub>CC</sub> | 0.5 × V <sub>CC</sub> | V <sub>OL</sub> + 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 | $V_{CC}$ | $\leq 2.0$ ns | 30 pF | 1 k $\Omega$ | $2 \times V_{CC}$  |
| 2.3 V to 2.7 V   | $V_{CC}$ | $\leq 2.0$ ns | 30 pF | 500 $\Omega$ | $2 \times V_{CC}$  |
| 2.7 V            | 2.7 V    | $\leq 2.5$ ns | 50 pF | 500 $\Omega$ | 6 V                |
| 3.0 V to 3.6 V   | 2.7 V    | $\leq 2.5$ ns | 50 pF | 500 $\Omega$ | 6 V                |
| 4.5 V to 5.5 V   | $V_{CC}$ | $\leq 2.5$ ns | 50 pF | 500 $\Omega$ | $2 \times V_{CC}$  |



## 12. Package outline

TSSOP6: plastic thin shrink small outline package; 6 leads; body width 1.25 mm

SOT363-2



Fig. 10. Package outline SOT363-2 (TSSOP6)

Plastic, surface-mounted package (SC-74; TSOP6); 6 leads

SOT457



Fig. 11. Package outline SOT457 (SC-74; TSOP6)

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

SOT886



Fig. 12. Package outline SOT886 (XSON6)

**XSON6: extremely thin small outline package; no leads;  
6 terminals; body 0.9 x 1.0 x 0.35 mm**

SOT1115



**Fig. 13. Package outline SOT1115 (XSON6)**

**XSON6: extremely thin small outline package; no leads;  
6 terminals; body 1.0 x 1.0 x 0.35 mm**

SOT1202



**Fig. 14. Package outline SOT1202 (XSON6)**

X2SON6: plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 x 0.8 x 0.32 mm

SOT1255-2

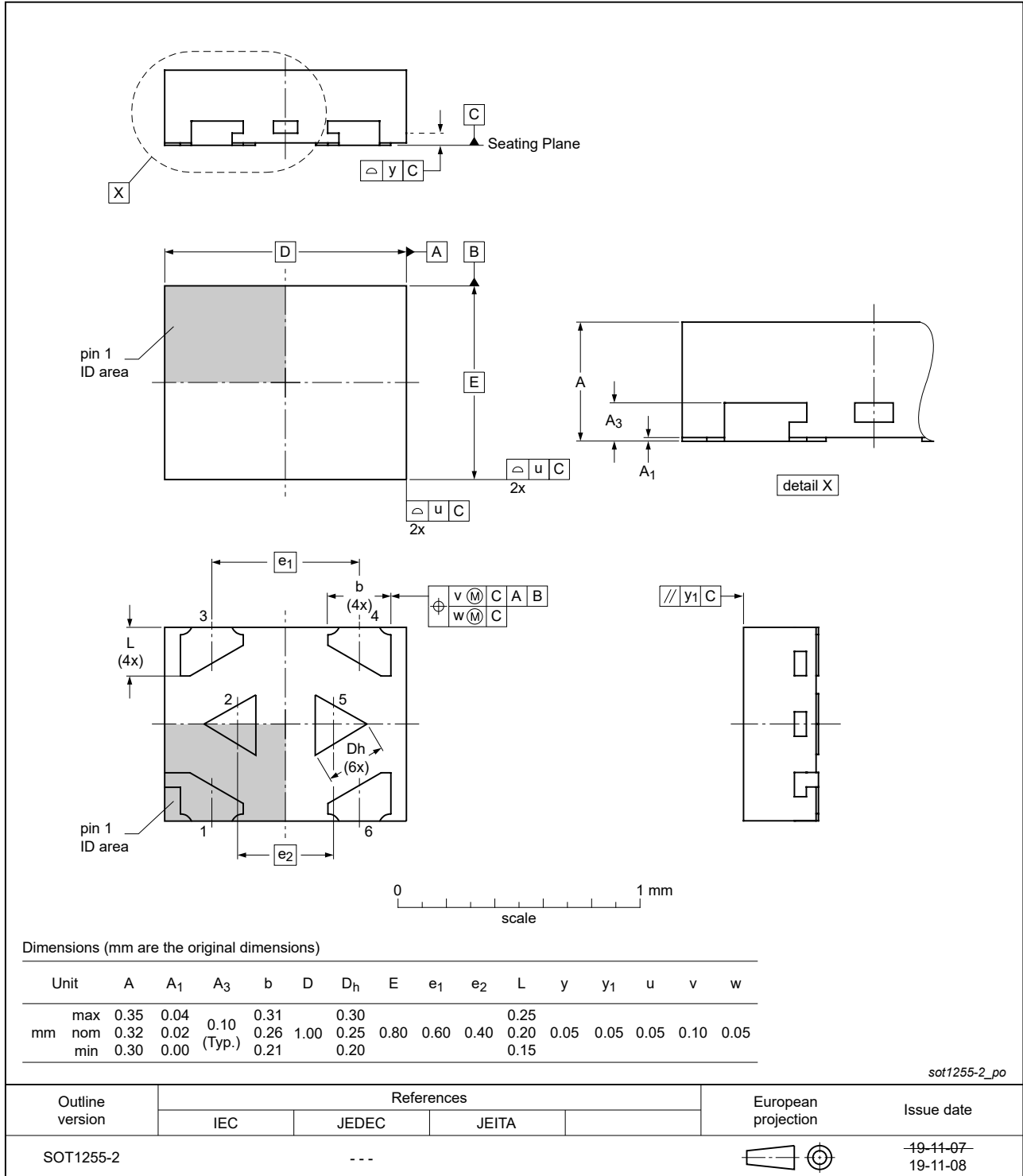


Fig. 15. Package outline SOT1255-2 (X2SON6)

## 13. Abbreviations

Table 11. Abbreviations

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

## 14. Revision history

Table 12. Revision history

| Document ID    | Release date  | Data sheet status     | Change notice | Supersedes    |
|----------------|---|-----------------------|---------------|---------------|
| 74LVC2G06 v.9  | 20220124  | Product data sheet    | -             | 74LVC2G06 v.8 |
| Modifications: | <ul style="list-style-type: none"> <li>• <a href="#">Section 1</a> updated.</li> <li>• Package SOT363 (SC-88) changed to SOT363-2 (TSSOP6).</li> <li>• Package SOT1255 (X2SON6) changed to SOT1255-2 (X2SON6).</li> <li>• <a href="#">Fig. 11</a>: Package outline drawing for SOT457 (SC-74; TSOP6) has changed.</li> <li>• Type number 74LVC2G06GF (SOT891/XSON6) removed.</li> <li>• <a href="#">Table 5</a>: Derating values for <math>P_{tot}</math> total power dissipation updated.</li> </ul> |                       |               |               |
| 74LVC2G06 v.8  | 20161212  | Product data sheet    | -             | 74LVC2G06 v.7 |
| 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>  |                       |               |               |
| 74LVC2G06 v.7  | 20150917  | Product data sheet    | -             | 74LVC2G06 v.6 |
| Modifications: | <ul style="list-style-type: none"> <li>• Added type number 74LVC2G06GX (SOT1255/X2SON6).</li> </ul>   |                       |               |               |
| 74LVC2G06 v.6  | 20120704  | Product data sheet    | -             | 74LVC2G06 v.5 |
| Modifications: | <ul style="list-style-type: none"> <li>• Package outline drawing of SOT886 (<a href="#">Fig. 12</a>) modified.</li> </ul>   |                       |               |               |
| 74LVC2G06 v.5  | 20111130  | Product data sheet    | -             | 74LVC2G06 v.4 |
| Modifications: | <ul style="list-style-type: none"> <li>• Legal pages updated.</li> </ul>  |                       |               |               |
| 74LVC2G06 v.4  | 20101028  | Product data sheet    | -             | 74LVC2G06 v.3 |
| 74LVC2G06 v.3  | 20070521  | Product data sheet    | -             | 74LVC2G06 v.2 |
| 74LVC2G06 v.2  | 20040910  | Product specification | -             | 74LVC2G06 v.1 |
| 74LVC2G06 v.1  | 20030825  | 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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