

# 74LVC1G34-Q100

## Single buffer

Rev. 6 — 13 November 2024

Product data sheet

## 1. General description

The 74LVC1G34-Q100 is a single buffer. 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.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

## 2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
  - Specified from -40 °C to +85 °C and -40 °C to +125 °C
- Wide supply voltage range from 1.65 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- $\pm 24$  mA output drive ( $V_{CC} = 3.0$  V)
- CMOS low power dissipation
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- $I_{OFF}$  circuitry provides partial Power-down mode operation
- 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: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V

## 3. Ordering information

Table 1. Ordering information

| Type number                      | Package           |        |                                                                                                                                                |                           |
|----------------------------------|-------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                  | Temperature range | Name   | Description                                                                                                                                    | Version                   |
| <a href="#">74LVC1G34GW-Q100</a> | -40 °C to +125 °C | TSSOP5 | plastic thin shrink small outline package; 5 leads; body width 1.25 mm                                                                         | <a href="#">SOT353-1</a>  |
| <a href="#">74LVC1G34GV-Q100</a> | -40 °C to +125 °C | SC-74A | plastic surface-mounted package; 5 leads                                                                                                       | <a href="#">SOT753</a>    |
| <a href="#">74LVC1G34GZ-Q100</a> | -40 °C to +125 °C | XSON5  | plastic thermal enhanced extremely thin small outline package with side-wettable flanks (SWF); no leads; 5 terminals; body 1.1 × 0.85 × 0.5 mm | <a href="#">SOT8065-1</a> |

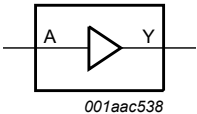
4. Marking

Table 2. Marking

| Type number      | Marking code[1] |
|------------------|-----------------|
| 74LVC1G34GW-Q100 | YN              |
| 74LVC1G34GV-Q100 | YN              |
| 74LVC1G34GZ-Q100 | YN              |

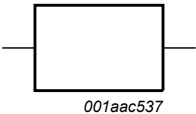
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



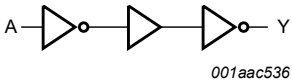
001aac538

Fig. 1. Logic symbol



001aac537

Fig. 2. IEC logic symbol



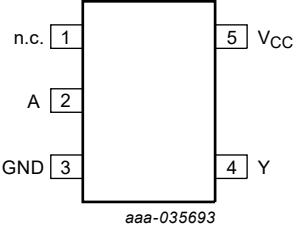
001aac536

Fig. 3. Logic diagram

6. Pinning information

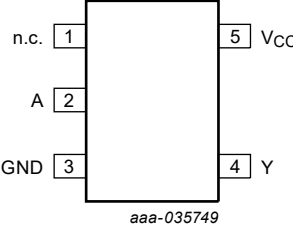
6.1. Pinning

**GW package**  
SOT353-1 (TSSOP5)



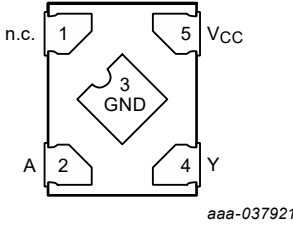
aaa-035693

**GV package**  
SOT753 (SC-74A)



aaa-035749

**GZ package**  
SOT8065-1 (XSON5)



aaa-037921

Transparent top view

6.2. Pin description

Table 3. Pin description

| Symbol          | Pin | Description    |
|-----------------|-----|----------------|
| n.c.            | 1   | not connected  |
| A               | 2   | data input     |
| GND             | 3   | ground (0 V)   |
| Y               | 4   | data output    |
| V <sub>CC</sub> | 5   | supply voltage |

7. Functional description

Table 4. Function table

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

| Input | Output |
|-------|--------|
| A     | Y      |
| L     | L      |
| H     | H      |

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 <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   |
| V <sub>I</sub>   | input voltage           | [1]                                                      | -0.5 | +6.5                  | V    |
| I <sub>OK</sub>  | output clamping current | V <sub>O</sub> > V <sub>CC</sub> or V <sub>O</sub> < 0 V | -    | ±50                   | mA   |
| V <sub>O</sub>   | output voltage          | Active mode [1]                                          | -0.5 | V <sub>CC</sub> + 0.5 | V    |
|                  |                         | Power-down mode; V <sub>CC</sub> = 0 V [1]               | -0.5 | +6.5                  | V    |
| I <sub>O</sub>   | output current          | V <sub>O</sub> = 0 V to V <sub>CC</sub>                  | -    | ±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 <sub>amb</sub> = -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 SOT353-1 (TSSOP5) package: P<sub>tot</sub> derates linearly with 3.3 mW/K above 74 °C.  
For SOT753 (SC-74A) package: P<sub>tot</sub> derates linearly with 3.8 mW/K above 85 °C.  
For SOT8065-1 (XSON5) package: P<sub>tot</sub> derates linearly with 3.2 mW/K above 72 °C.

9. Recommended operating conditions

Table 6. Recommended operating conditions

| Symbol           | Parameter                           | Conditions                             | Min  | Typ | Max             | Unit           |
|------------------|-------------------------------------|----------------------------------------|------|-----|-----------------|----------------|
| V <sub>CC</sub>  | supply voltage                      |                                        | 1.65 | -   | 5.5             | V              |
| V <sub>I</sub>   | input voltage                       |                                        | 0    | -   | 5.5             | V              |
| V <sub>O</sub>   | output voltage                      | Active mode                            | 0    | -   | V <sub>CC</sub> | V <sub>O</sub> |
|                  |                                     | Power-down mode; V <sub>CC</sub> = 0 V | 0    | -   | 5.5             | V <sub>O</sub> |
| T <sub>amb</sub> | ambient temperature                 |                                        | -40  | -   | +125            | °C             |
| Δt/ΔV            | input transition rise and fall rate | V <sub>CC</sub> = 1.65 V to 2.7 V      | -    | -   | 20              | ns/V           |
|                  |                                     | V <sub>CC</sub> = 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 |
|-------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------|------------------------|--------|------------------------|------|
| T <sub>amb</sub> = -40 °C to +85 °C |                           |                                                                                                      |                        |        |                        |      |
| 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>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    |
|                                     |                           | I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V                                                     | 1.2                    | 1.54   | -                      | V    |
|                                     |                           | I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V                                                      | 1.9                    | 2.15   | -                      | V    |
|                                     |                           | I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V                                                     | 2.2                    | 2.50   | -                      | V    |
|                                     |                           | I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V                                                     | 2.3                    | 2.62   | -                      | V    |
|                                     |                           | I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V                                                     | 3.8                    | 4.11   | -                      | 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                                                      | -                      | 0.07   | 0.45                   | V    |
|                                     |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V                                                       | -                      | 0.12   | 0.30                   | V    |
|                                     |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V                                                      | -                      | 0.17   | 0.40                   | V    |
|                                     |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V                                                      | -                      | 0.33   | 0.55                   | V    |
|                                     |                           | I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V                                                      | -                      | 0.39   | 0.55                   | V    |
| I <sub>I</sub>                      | input leakage current     | V <sub>CC</sub> = 0 V to 5.5 V; V <sub>I</sub> = 5.5 V or GND [2]                                    | -                      | ±0.1   | ±1                     | µA   |
| I <sub>OFF</sub>                    | power-off leakage current | V <sub>CC</sub> = 0 V; V <sub>I</sub> or V <sub>O</sub> = 5.5 V                                      | -                      | ±0.1   | ±2                     | µA   |
| I <sub>CC</sub>                     | supply current            | V <sub>CC</sub> = 1.65 V to 5.5 V; I <sub>O</sub> = 0 A; V <sub>I</sub> = 5.5 V or GND [2]           | -                      | 0.1    | 4                      | µA   |
| ΔI <sub>CC</sub>                    | additional supply current | V <sub>CC</sub> = 2.3 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A [2] | -                      | 5      | 500                    | µA   |
| C <sub>I</sub>                      | input capacitance         | V <sub>CC</sub> = 3.3 V; V <sub>I</sub> = GND to V <sub>CC</sub>                                     | -                      | 4      | -                      | pF   |

| Symbol                               | Parameter                 | Conditions                                                                                          | Min                    | Typ[1] | Max                    | Unit |
|--------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------|------------------------|--------|------------------------|------|
| T <sub>amb</sub> = -40 °C to +125 °C |                           |                                                                                                     |                        |        |                        |      |
| 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>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    |
|                                      |                           | I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V                                                    | 0.95                   | -      | -                      | V    |
|                                      |                           | I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V                                                     | 1.7                    | -      | -                      | V    |
|                                      |                           | I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V                                                    | 1.9                    | -      | -                      | V    |
|                                      |                           | I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V                                                    | 2.0                    | -      | -                      | V    |
|                                      |                           | I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V                                                    | 3.4                    | -      | -                      | 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>CC</sub> = 0 V to 5.5 V; V <sub>I</sub> = 5.5 V or GND                                       | -                      | -      | ±1                     | µA   |
| I <sub>OFF</sub>                     | power-off leakage current | V <sub>CC</sub> = 0 V; V <sub>I</sub> or V <sub>O</sub> = 5.5 V                                     | -                      | -      | ±2                     | µA   |
| I <sub>CC</sub>                      | supply current            | V <sub>CC</sub> = 1.65 V to 5.5 V; I <sub>O</sub> = 0 A;<br>V <sub>I</sub> = 5.5 V or GND           | -                      | -      | 4                      | µA   |
| ΔI <sub>CC</sub>                     | additional supply current | V <sub>CC</sub> = 2.3 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V;<br>I <sub>O</sub> = 0 A | -                      | -      | 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. 5.

| 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             | A to Y; see Fig. 4 [2]                                                |                  |        |     |                   |      |      |
|                 |                               | V <sub>CC</sub> = 1.65 V to 1.95 V                                    | 1.0              | 4.0    | 8.6 | 1.0               | 11.0 | ns   |
|                 |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                                      | 0.5              | 2.6    | 4.4 | 0.5               | 5.6  | ns   |
|                 |                               | V <sub>CC</sub> = 2.7 V                                               | 0.5              | 2.3    | 4.5 | 0.5               | 5.6  | ns   |
|                 |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                                      | 0.5              | 2.0    | 4.1 | 0.5               | 5.2  | ns   |
|                 |                               | V <sub>CC</sub> = 4.5 V to 5.5 V                                      | 0.5              | 1.6    | 3.2 | 0.5               | 4.1  | 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] | -                | 15     | -   | -                 | -    | 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>PLH</sub> and t<sub>PHL</sub>.
- [3] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in μW).
- $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$  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;
- $\sum (C_L \times V_{CC}^2 \times f_o)$  = sum of outputs.

11.1. Waveform and test circuit

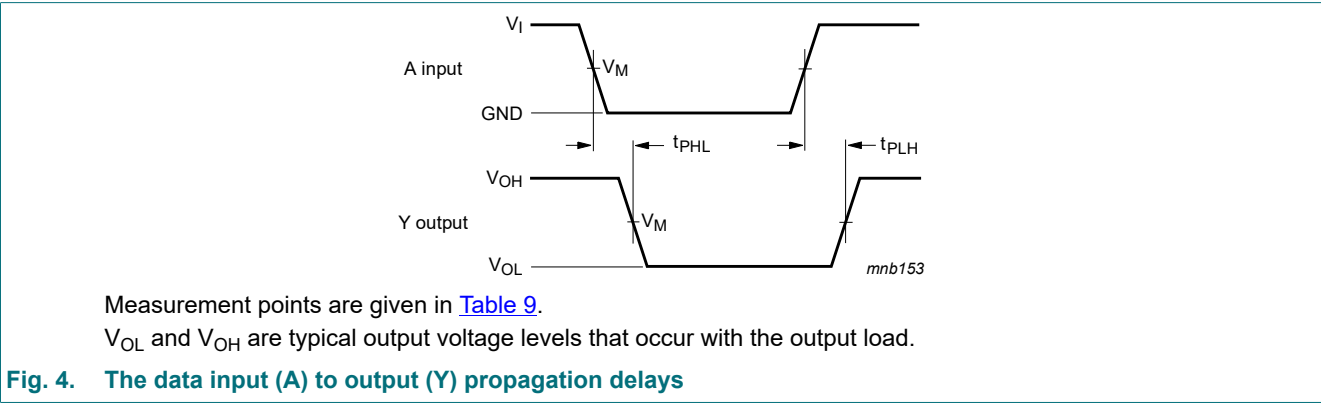
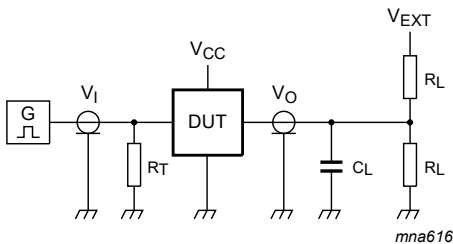


Table 9. Measurement points

| Supply voltage   | Input                 | Output                |
|------------------|-----------------------|-----------------------|
| V <sub>CC</sub>  | V <sub>M</sub>        | V <sub>M</sub>        |
| 1.65 V to 1.95 V | 0.5 x V <sub>CC</sub> | 0.5 x V <sub>CC</sub> |
| 2.3 V to 2.7 V   | 0.5 x V <sub>CC</sub> | 0.5 x 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 x V <sub>CC</sub> | 0.5 x V <sub>CC</sub> |



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. 5. Test circuit for measuring switching times

Table 10. Test data

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

12. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm

SOT353-1

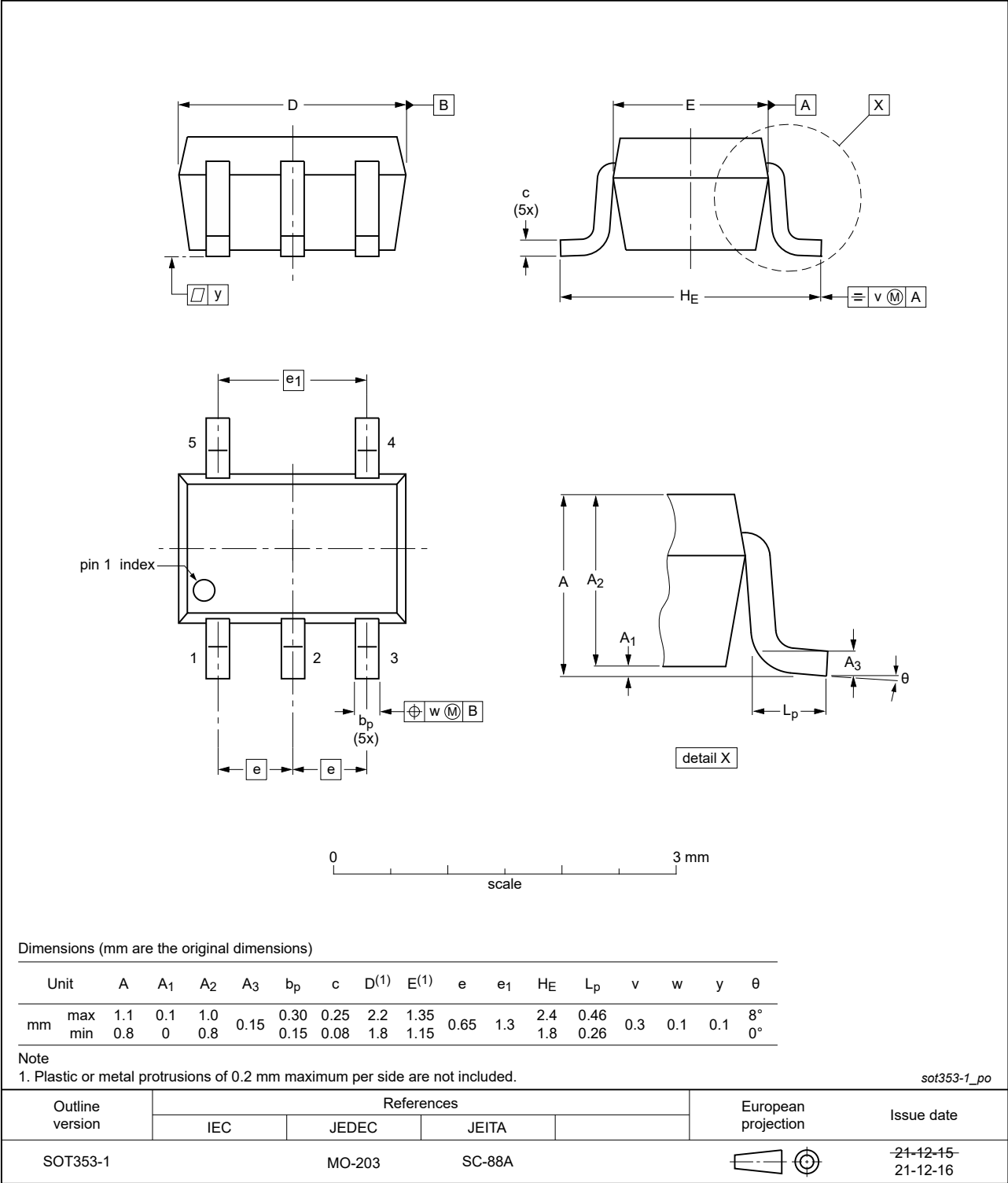


Fig. 6. Package outline SOT353-1 (TSSOP5)



Plastic surface-mounted package; 5 leads

SOT753

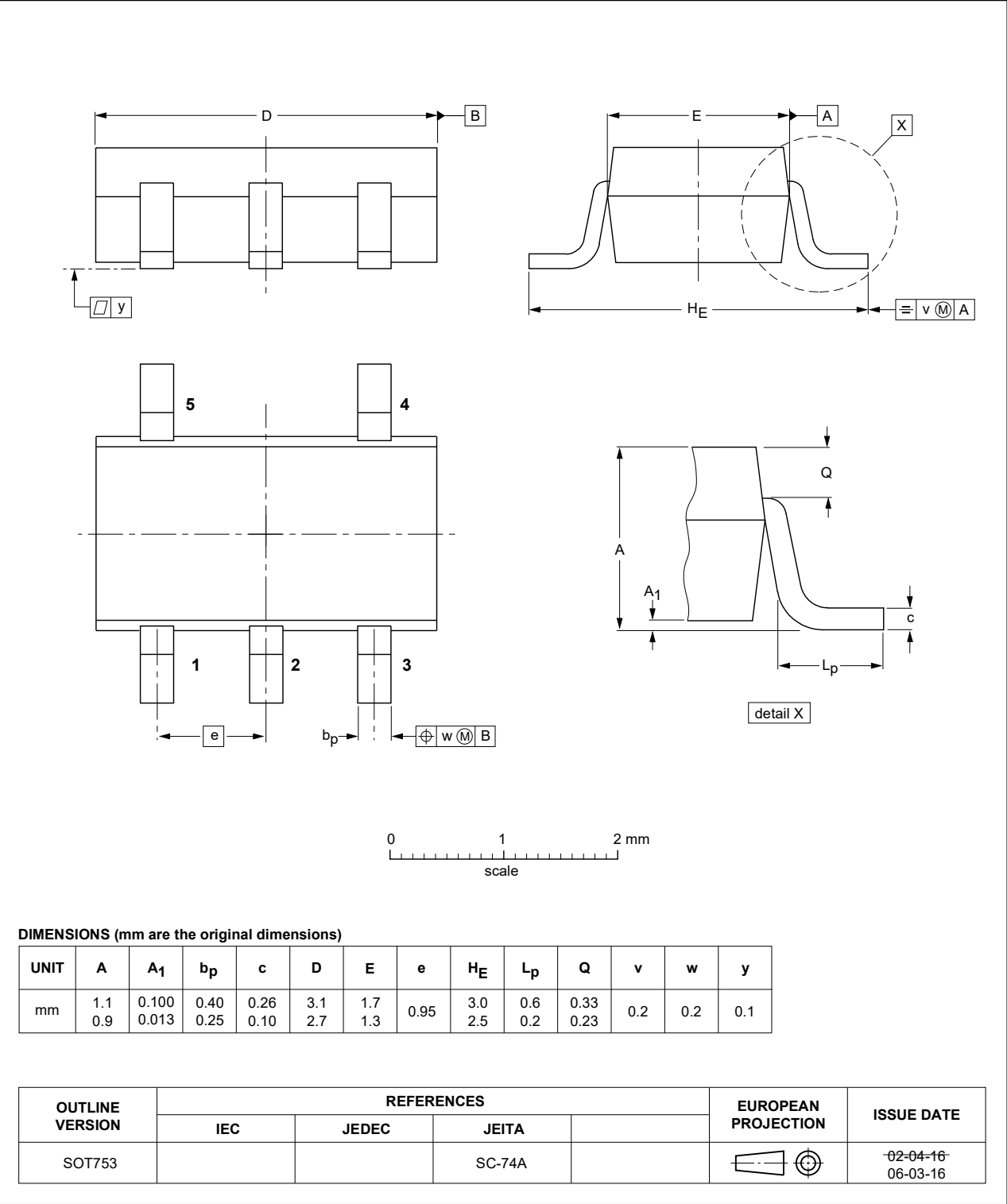


Fig. 7. Package outline SOT753 (SC-74A)

XSON5: Plastic thermal enhanced extremely thin small outline package with side-wettable flanks (SWF); no leads; 5 terminals; body 1.1 × 0.85 × 0.5 mm

SOT8065-1

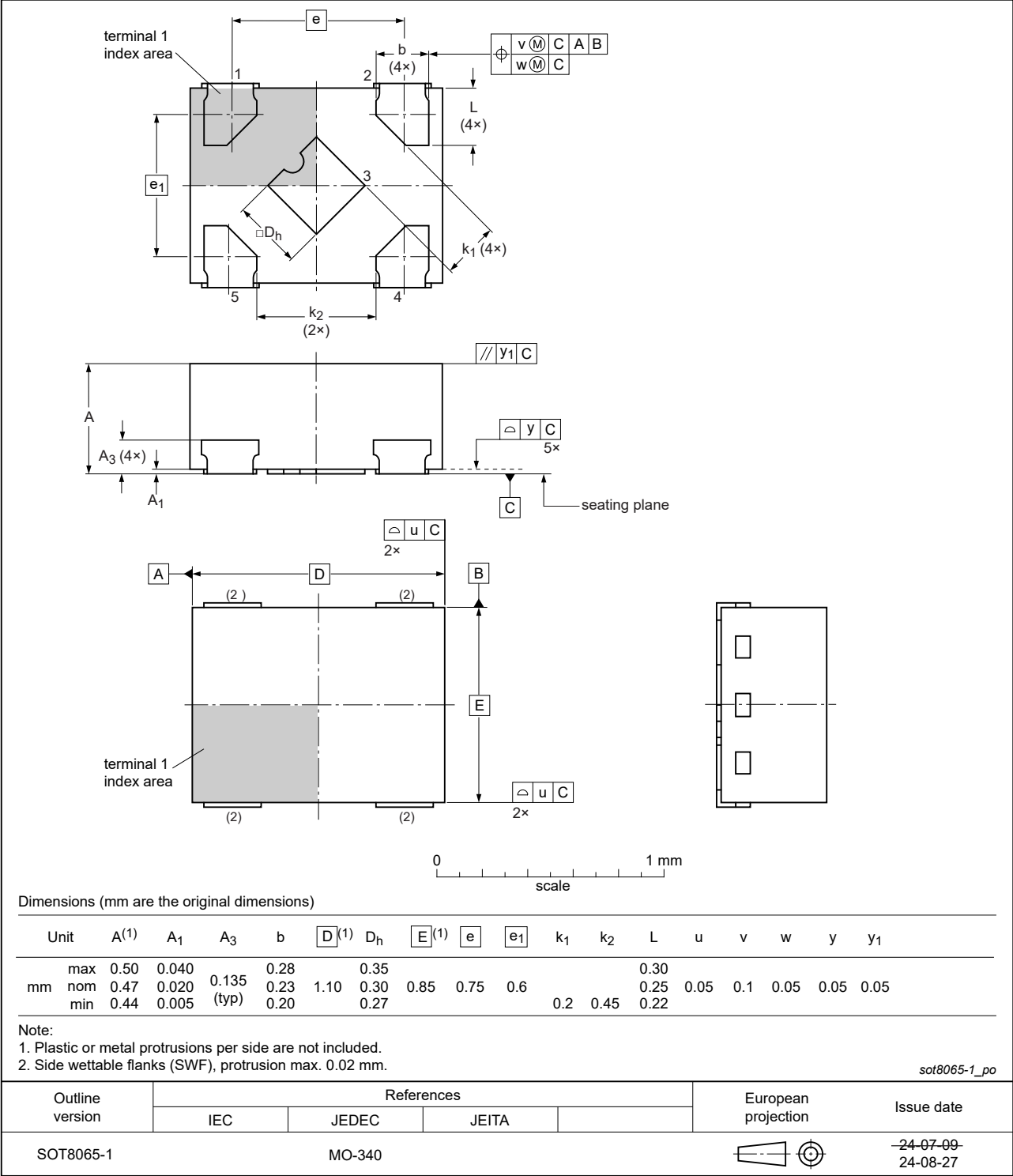


Fig. 8. Package outline SOT8065-1 (XSON5)

13. Abbreviations

Table 11. Abbreviations

| Acronym | Description                               |
|---------|-------------------------------------------|
| ANSI    | American National Standards Institute     |
| CMOS    | Complementary Metal-Oxide Semiconductor   |
| DUT     | Device Under Test                         |
| ESD     | ElectroStatic Discharge                   |
| ESDA    | ElectroStatic Discharge Association       |
| HBM     | Human Body Model                          |
| JEDEC   | Joint Electron Device Engineering Council |
| TTL     | Transistor-Transistor Logic               |

14. Revision history

Table 12. Revision history

| Document ID        | Release date                                                                                                                                                                                                                                                                                                                                                    | Data sheet status  | Change notice | Supersedes         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|--------------------|
| 74LVC1G34_Q100 v.6 | 20241113                                                                                                                                                                                                                                                                                                                                                        | Product data sheet | -             | 74LVC1G34_Q100 v.5 |
| Modifications:     | • Type number 74LVC1G34GZ-Q100 (SOT8065-1/XSON5) added.                                                                                                                                                                                                                                                                                                         |                    |               |                    |
| 74LVC1G34_Q100 v.5 | 20230824                                                                                                                                                                                                                                                                                                                                                        | Product data sheet | -             | 74LVC1G34_Q100 v.4 |
| Modifications:     | • <a href="#">Section 2</a> : ESD specification updated according to the latest JEDEC standard.                                                                                                                                                                                                                                                                 |                    |               |                    |
| 74LVC1G34_Q100 v.4 | 20220117                                                                                                                                                                                                                                                                                                                                                        | Product data sheet | -             | 74LVC1G34_Q100 v.3 |
| Modifications:     | • <a href="#">Fig. 6</a> : Package outline drawing SOT353-1 (TSSOP5) has changed.                                                                                                                                                                                                                                                                               |                    |               |                    |
| 74LVC1G34_Q100 v.3 | 20210927                                                                                                                                                                                                                                                                                                                                                        | Product data sheet | -             | 74LVC1G34_Q100 v.2 |
| Modifications:     | • The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.<br>• Legal texts have been adapted to the new company name where appropriate.<br>• <a href="#">Section 1</a> and <a href="#">Section 2</a> updated<br>• <a href="#">Table 5</a> : Derating values for P <sub>tot</sub> total power dissipation updated. |                    |               |                    |
| 74LVC1G34_Q100 v.2 | 20161209                                                                                                                                                                                                                                                                                                                                                        | Product data sheet | -             | 74LVC1G34_Q100 v.1 |
| Modifications:     | • <a href="#">Table 7</a> : The maximum limits for leakage current and supply current have changed.                                                                                                                                                                                                                                                             |                    |               |                    |
| 74LVC1G34_Q100 v.1 | 20121001                                                                                                                                                                                                                                                                                                                                                        | Product data sheet | -             | -                  |

## 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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