

74LVC1G14-Q100

Single Schmitt trigger inverter

Rev. 1 — 9 July 2012

Product data sheet

1. General description

The 74LVC1G14-Q100 provides the inverting buffer function with Schmitt trigger input. It is capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

The input can be driven from either 3.3 V or 5 V devices. This feature allows the use of this device in a mixed 3.3 V and 5 V environment. Schmitt trigger action at the input makes the circuit tolerant for slower input rise and fall time.

This device is fully specified for partial power-down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the 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 $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ and from $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$
- Wide supply voltage range from 1.65 V 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)
 - ◆ JESD8-B/JESD36 (2.7 V to 3.6 V).
- $\pm 24\text{ mA}$ output drive ($V_{CC} = 3.0\text{ V}$)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Unlimited rise and fall times
- Input accepts voltages up to 5 V
- ESD protection:
 - ◆ MIL-STD-883, method 3015 exceeds 2000 V
 - ◆ HBM JESD22-A114F exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 V ($C = 200\text{ pf}$, $R = 0\text{ }\Omega$)



3. Applications

- Wave and pulse shaper
- Astable multivibrator
- Monostable multivibrator

4. Ordering information

Table 1. Ordering information

| Type number | Package | | | |
|------------------|-------------------|--------|--|----------|
| | Temperature range | Name | Description | Version |
| 74LVC1G14GW-Q100 | −40 °C to +125 °C | TSSOP5 | plastic thin shrink small outline package; 5 leads; body width 1.25 mm | SOT353-1 |
| 74LVC1G14GV-Q100 | −40 °C to +125 °C | SC-74A | plastic surface-mounted package; 5 leads | SOT753 |

5. Marking

Table 2. Marking

| Type number | Marking code ^[1] |
|------------------|-----------------------------|
| 74LVC1G14GW-Q100 | VF |
| 74LVC1G14GV-Q100 | V14 |

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

6. Functional diagram

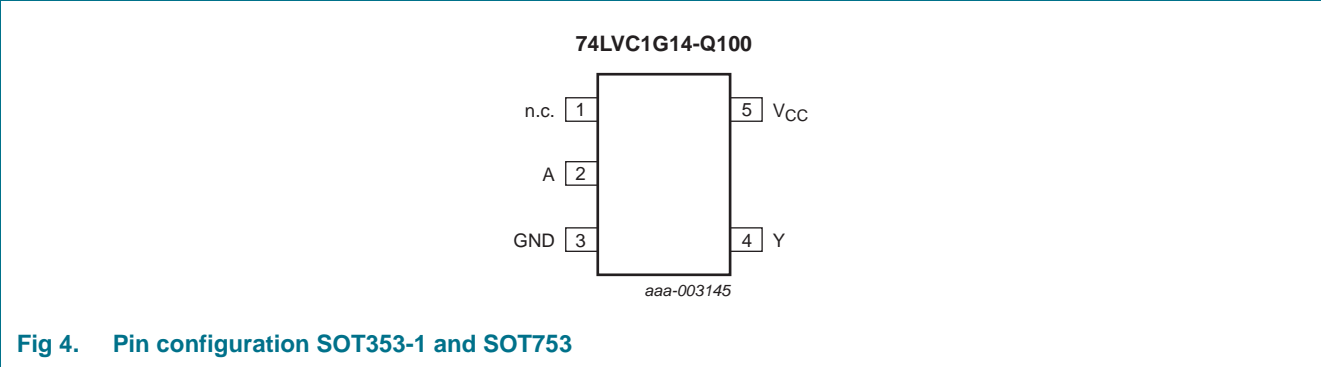
Fig 1. Logic symbol

Fig 2. IEC logic symbol

Fig 3. Logic diagram

7. Pinning information

7.1 Pinning



7.2 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 _{CC} | 5 | supply voltage |

8. Functional description

Table 4. Function table^[1]

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

[1] H = HIGH voltage level; L = LOW voltage level

9. Limiting values

Table 5. Limiting values

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

| Symbol | Parameter | Conditions | Min | Max | Unit |
|-----------|-------------------------|-------------------------------|-------------|----------------|------|
| V_{CC} | supply voltage | | -0.5 | +6.5 | V |
| V_I | input voltage | | [1] -0.5 | +6.5 | V |
| V_O | output voltage | Active mode | [1][2] -0.5 | $V_{CC} + 0.5$ | V |
| | | Power-down mode | [1][2] -0.5 | +6.5 | V |
| I_{IK} | input clamping current | $V_I < 0$ V | -50 | - | mA |
| I_{OK} | output clamping current | $V_O > V_{CC}$ or $V_O < 0$ V | - | ± 50 | mA |
| 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 | [3] - | 250 | mW |

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

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

[3] For TSSOP5 and SC-74A packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K.

10. 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 | - | V_{CC} | V |
| | | Power-down mode; $V_{CC} = 0$ V | 0 | - | 5.5 | V |
| T_{amb} | ambient temperature | | -40 | - | +125 | °C |

11. Static characteristics

Table 7. Static characteristics

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

| Symbol | Parameter | Conditions | -40 °C to +85 °C | | | -40 °C to +125 °C | | Unit |
|----------|---------------------------|---|------------------|---------|-----|-------------------|-----|------|
| | | | Min | Typ [1] | Max | Min | Max | |
| V_{OH} | HIGH-level output voltage | $V_I = V_{T+}$ or V_{T-} | | | | | | |
| | | $I_O = -100$ μ A; $V_{CC} = 1.65$ V to 5.5 V | $V_{CC} - 0.1$ | - | - | $V_{CC} - 0.1$ | - | V |
| | | $I_O = -4$ mA; $V_{CC} = 1.65$ V | 1.2 | 1.54 | - | 0.95 | - | V |
| | | $I_O = -8$ mA; $V_{CC} = 2.3$ V | 1.9 | 2.15 | - | 1.7 | - | V |
| | | $I_O = -12$ mA; $V_{CC} = 2.7$ V | 2.2 | 2.50 | - | 1.9 | - | V |
| | | $I_O = -24$ mA; $V_{CC} = 3.0$ V | 2.3 | 2.62 | - | 2.0 | - | V |
| | | $I_O = -32$ mA; $V_{CC} = 4.5$ V | 3.8 | 4.11 | - | 3.4 | - | V |

Table 7. Static characteristics ...continued

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

| Symbol | Parameter | Conditions | -40 °C to +85 °C | | | -40 °C to +125 °C | | Unit |
|------------------|---------------------------|--|------------------|--------------------|------|-------------------|------|------|
| | | | Min | Typ ^[1] | Max | Min | Max | |
| V _{OL} | LOW-level output voltage | V _I = V _{T+} or V _{T-} | | | | | | |
| | | I _O = 100 µA; V _{CC} = 1.65 V to 5.5 V | - | - | 0.10 | - | 0.10 | V |
| | | I _O = 4 mA; V _{CC} = 1.65 V | - | 0.07 | 0.45 | - | 0.70 | V |
| | | I _O = 8 mA; V _{CC} = 2.3 V | - | 0.12 | 0.30 | - | 0.45 | V |
| | | I _O = 12 mA; V _{CC} = 2.7 V | - | 0.17 | 0.40 | - | 0.60 | V |
| | | I _O = 24 mA; V _{CC} = 3.0 V | - | 0.33 | 0.55 | - | 0.80 | V |
| | | I _O = 32 mA; V _{CC} = 4.5 V | - | 0.39 | 0.55 | - | 0.80 | V |
| I _I | input leakage current | V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V | - | ±0.1 | ±5 | - | ±100 | µA |
| I _{OFF} | power-off leakage current | V _I or V _O = 5.5 V; V _{CC} = 0 V | - | ±0.1 | ±10 | - | ±200 | µA |
| I _{CC} | supply current | V _I = 5.5 V or GND; I _O = 0 A; V _{CC} = 1.65 V to 5.5 V | - | 0.1 | 10 | - | 200 | µA |
| ΔI _{CC} | additional supply current | V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 2.3 V to 5.5 V | - | 5 | 500 | - | 5000 | µA |
| C _I | input capacitance | V _{CC} = 3.3 V; V _I = GND to V _{CC} | - | 5.0 | - | - | - | pF |

[1] All typical values are measured at maximum V_{CC} and T_{amb} = 25 °C.**Table 8. Transfer characteristics**Voltages are referenced to GND (ground = 0 V); for load circuit see [Figure 6](#).

| Symbol | Parameter | Conditions | -40 °C to +85 °C | | | -40 °C to +125 °C | | Unit |
|-----------------|----------------------------------|---|------------------|--------------------|------|-------------------|------|------|
| | | | Min | Typ ^[1] | Max | Min | Max | |
| V _{T+} | positive-going threshold voltage | see Figure 7 and Figure 8 | | | | | | |
| | | V _{CC} = 1.8 V | 0.82 | 1.0 | 1.14 | 0.79 | 1.14 | V |
| | | V _{CC} = 2.3 V | 1.03 | 1.2 | 1.40 | 1.00 | 1.40 | V |
| | | V _{CC} = 3.0 V | 1.29 | 1.5 | 1.71 | 1.26 | 1.71 | V |
| | | V _{CC} = 4.5 V | 1.84 | 2.1 | 2.36 | 1.81 | 2.36 | V |
| | | V _{CC} = 5.5 V | 2.19 | 2.5 | 2.79 | 2.16 | 2.79 | V |
| V _{T-} | negative-going threshold voltage | see Figure 7 and Figure 8 | | | | | | |
| | | V _{CC} = 1.8 V | 0.46 | 0.6 | 0.75 | 0.46 | 0.78 | V |
| | | V _{CC} = 2.3 V | 0.65 | 0.8 | 0.96 | 0.65 | 0.99 | V |
| | | V _{CC} = 3.0 V | 0.88 | 1.0 | 1.24 | 0.88 | 1.27 | V |
| | | V _{CC} = 4.5 V | 1.32 | 1.5 | 1.84 | 1.32 | 1.87 | V |
| | | V _{CC} = 5.5 V | 1.58 | 1.8 | 2.24 | 1.58 | 2.27 | V |

Table 8. Transfer characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for load circuit see [Figure 6](#).

| Symbol | Parameter | Conditions | –40 °C to +85 °C | | | –40 °C to +125 °C | | Unit |
|----------------|--------------------|--|------------------|--------------------|------|-------------------|------|------|
| | | | Min | Typ ^[1] | Max | Min | Max | |
| V _H | hysteresis voltage | (V _{T+} – V _{T–}); see Figure 7 , Figure 8 and Figure 9 | | | | | | |
| | | V _{CC} = 1.8 V | 0.26 | 0.4 | 0.51 | 0.19 | 0.51 | V |
| | | V _{CC} = 2.3 V | 0.28 | 0.4 | 0.57 | 0.22 | 0.57 | V |
| | | V _{CC} = 3.0 V | 0.31 | 0.5 | 0.64 | 0.25 | 0.64 | V |
| | | V _{CC} = 4.5 V | 0.40 | 0.6 | 0.77 | 0.34 | 0.77 | V |
| | | V _{CC} = 5.5 V | 0.47 | 0.6 | 0.88 | 0.41 | 0.88 | V |

[1] All typical values are measured at T_{amb} = 25 °C

12. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for load circuit see [Figure 6](#).

| Symbol | Parameter | Conditions | –40 °C to +85 °C | | | –40 °C to +125 °C | | Unit |
|-----------------|-------------------------------|--|------------------|--------------------|------|-------------------|------|------|
| | | | Min | Typ ^[1] | Max | Min | Max | |
| t _{pd} | propagation delay | A to Y; see Figure 5 | | | | | | |
| | | V _{CC} = 1.65 V to 1.95 V | 1.0 | 4.1 | 11.0 | 1.0 | 14.0 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.7 | 2.8 | 6.5 | 0.7 | 8.5 | ns |
| | | V _{CC} = 2.7 V | 0.7 | 3.2 | 6.5 | 0.7 | 8.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.7 | 3.0 | 5.5 | 0.7 | 7.0 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | 0.7 | 2.2 | 5.0 | 0.7 | 6.5 | ns |
| C _{PD} | power dissipation capacitance | V _{CC} = 3.3 V; V _I = GND to V _{CC} | - | 15.4 | - | - | - | pF |

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

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

[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

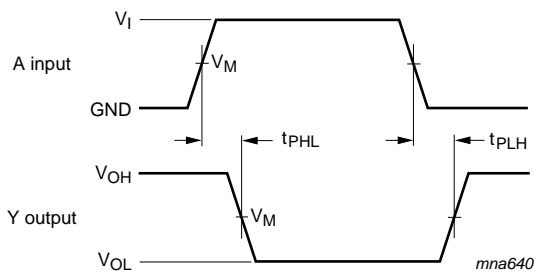
f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V.

13. Waveforms

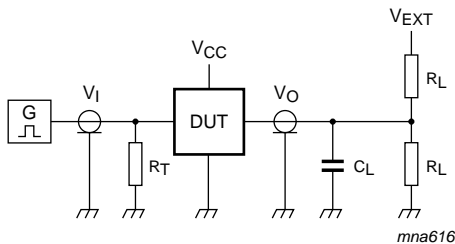


Measurement points are given in [Table 10](#).
 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig 5. The data input (A) to output (Y) propagation delays

Table 10. Measurement points

| Supply voltage | Input | Output |
|------------------|-------------|-------------|
| V_{CC} | V_M | V_M |
| 1.65 V to 1.95 V | $0.5V_{CC}$ | $0.5V_{CC}$ |
| 2.3 V to 2.7 V | $0.5V_{CC}$ | $0.5V_{CC}$ |
| 2.7 V | 1.5 V | 1.5 V |
| 3.0 V to 3.6 V | 1.5 V | 1.5 V |
| 4.5 V to 5.5 V | $0.5V_{CC}$ | $0.5V_{CC}$ |



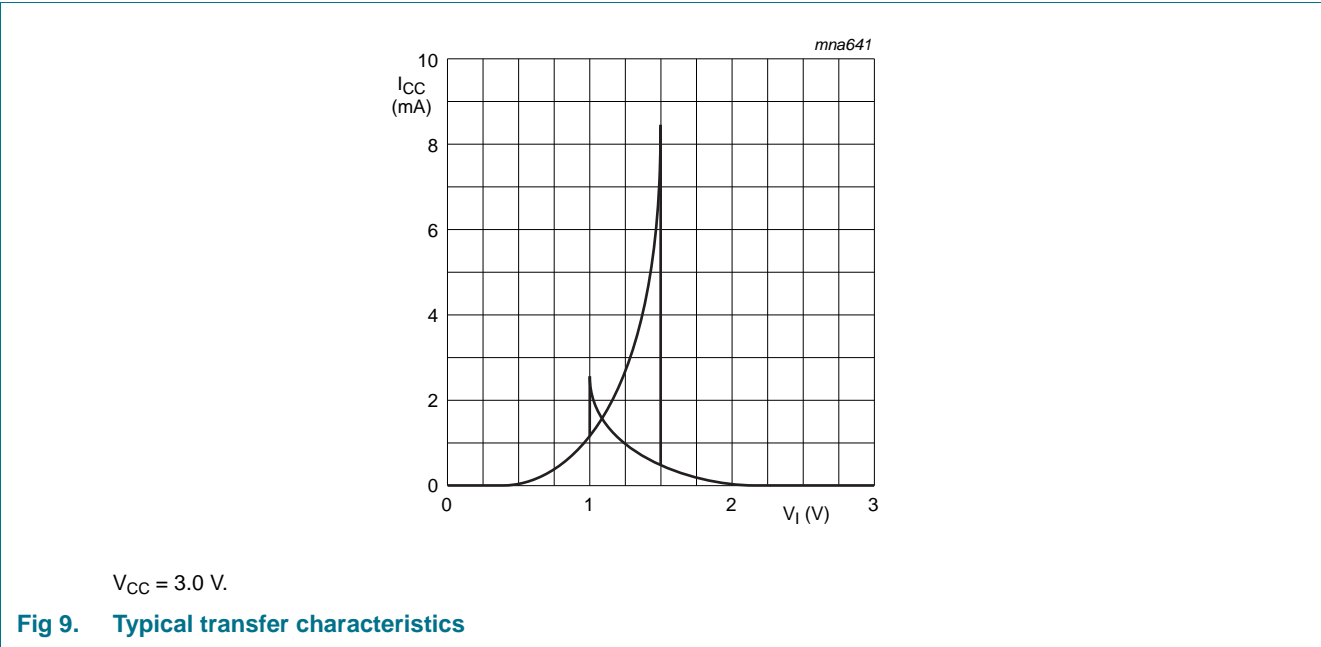
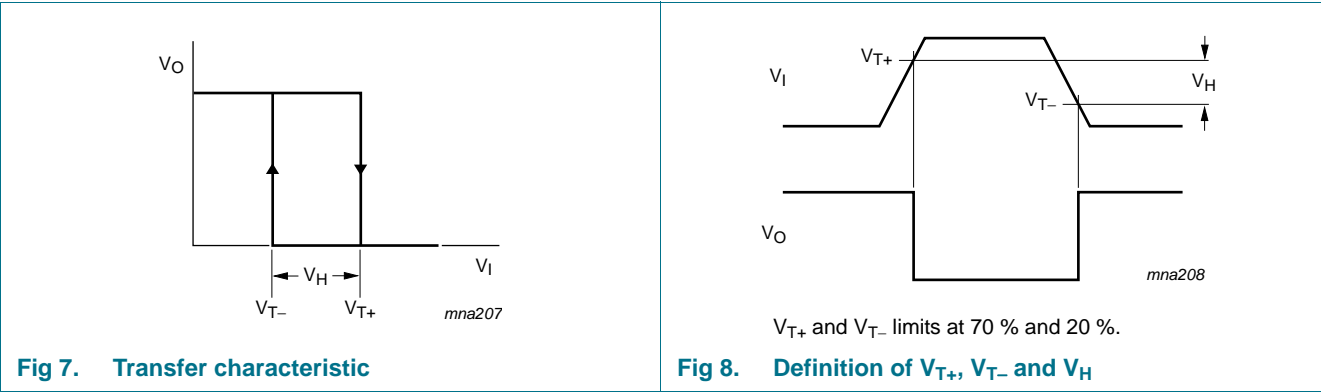
Test data is given in [Table 11](#).
 Definitions for test circuit:
 R_L = Load resistance.
 C_L = Load capacitance including jig and probe capacitance.
 R_T = Termination resistance should be equal to the output impedance Z_o of the pulse generator.
 V_{EXT} = External voltage for measuring switching times.

Fig 6. Test circuit for measuring switching times

Table 11. 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} | ≤ 2.0 ns | 30 pF | 1 kΩ | open |
| 2.3 V to 2.7 V | V _{CC} | ≤ 2.0 ns | 30 pF | 500 Ω | open |
| 2.7 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open |
| 3.0 V to 3.6 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open |
| 4.5 V to 5.5 V | V _{CC} | ≤ 2.5 ns | 50 pF | 500 Ω | open |

14. Waveforms transfer characteristics



15. Application information

The slow input rise and fall times cause additional power dissipation, this can be calculated using the following formula:

$$P_{\text{add}} = f_i \times (t_r \times \Delta I_{\text{CC(AV)}} + t_f \times \Delta I_{\text{CC(AV)}}) \times V_{\text{CC}} \text{ where:}$$

P_{add} = additional power dissipation (μW);

f_i = input frequency (MHz);

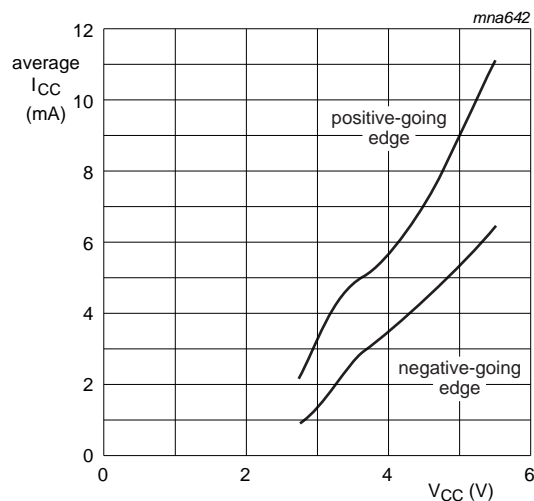
t_r = input rise time (ns); 10 % to 90 %;

t_f = input fall time (ns); 90 % to 10 %;

$\Delta I_{\text{CC(AV)}}$ = average additional supply current (μA).

Average $\Delta I_{\text{CC(AV)}}$ differs with positive or negative input transitions, as shown in [Figure 10](#).

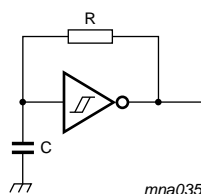
An example of a relaxation circuit using the 74LVC1G14-Q100 is shown in [Figure 11](#).



Linear change of V_I between 0.8 V to 2.0 V.

All values given are typical unless otherwise specified.

Fig 10. Average additional supply current as a function of supply voltage



$$f = \frac{1}{T} \approx \frac{1}{0.5 \times RC}$$

Fig 11. Relaxation oscillator

16. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mmSOT353-1

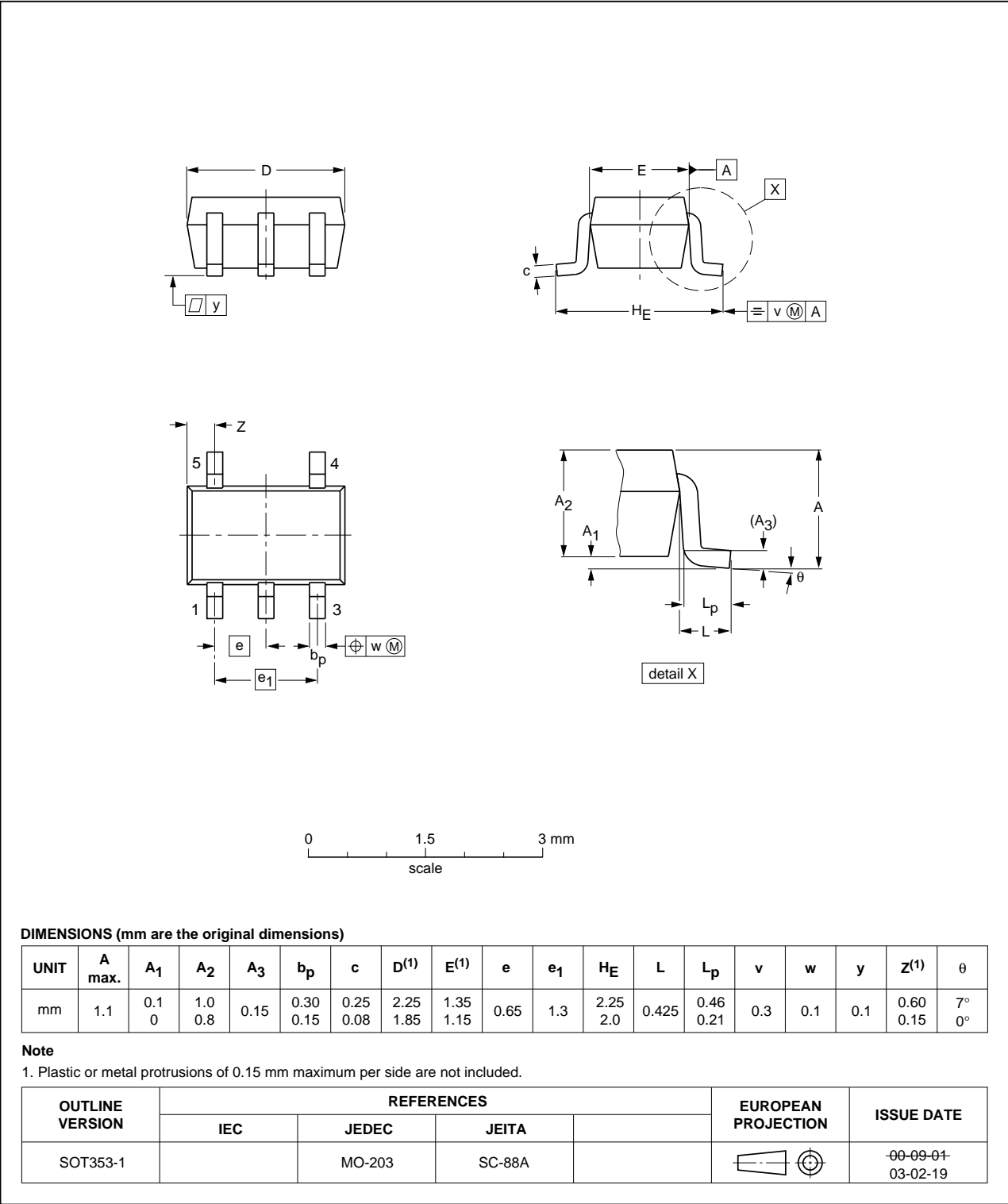


Fig 12. Package outline SOT353-1 (TSSOP5)

Plastic surface-mounted package; 5 leads

SOT753

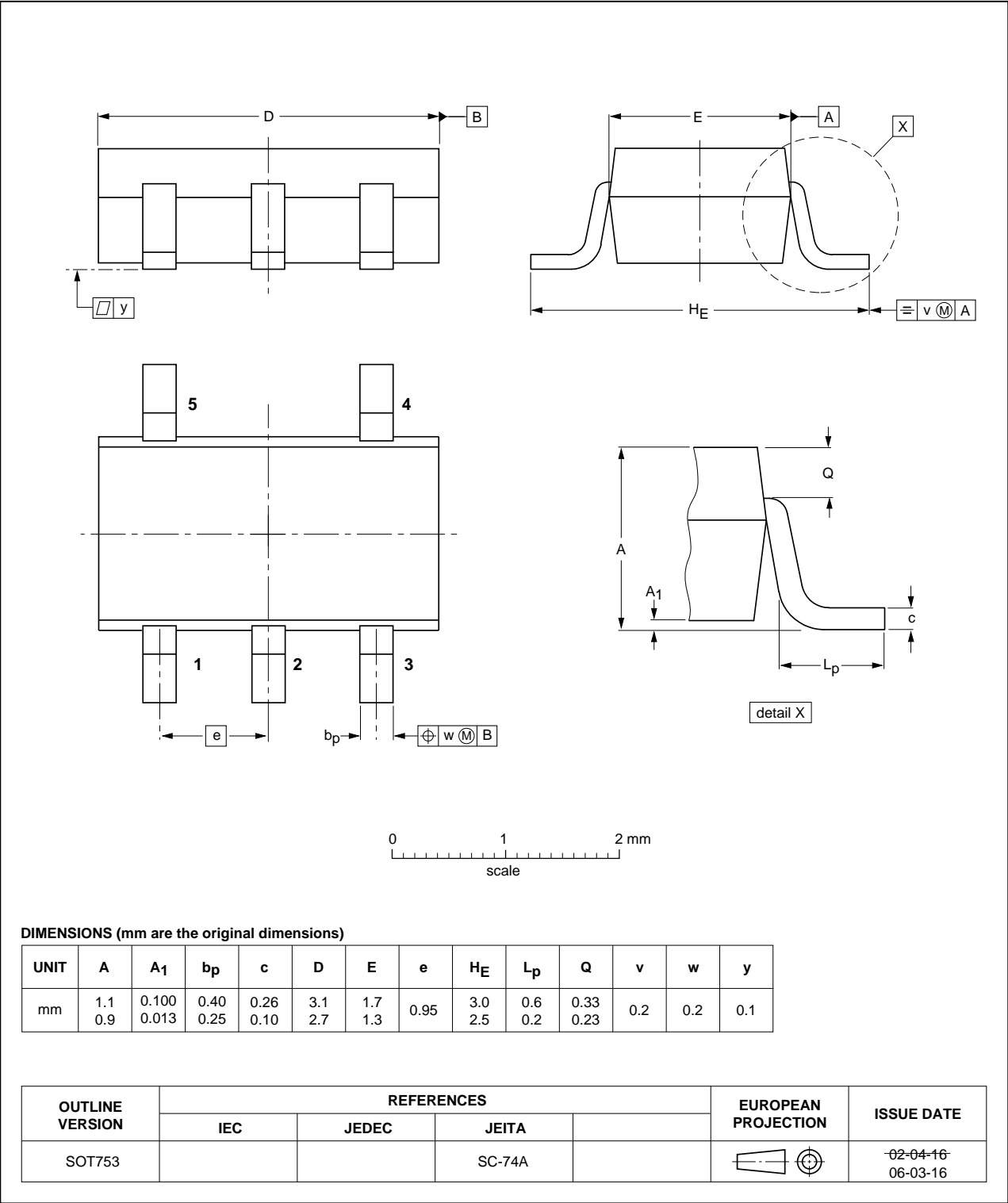


Fig 13. Package outline SOT753 (SC-74A)

17. Abbreviations

Table 12. Abbreviations

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

18. Revision history

Table 13. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|--------------------|--------------|--------------------|---------------|------------|
| 74LVC1G14_Q100 v.1 | 20120709 | Product data sheet | - | - |

19. Legal information

19.1 Data sheet status

| Document status ^{[1][2]} | Product status ^[3] | Definition |
|-----------------------------------|-------------------------------|---|
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Date of release: 9 July 2012

Document identifier: 74LVC1G14_Q100