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Kind regards,

Team Nexperia

74HC1G14-Q100; 74HCT1G14-Q100

Inverting Schmitt trigger

Rev. 2 — 27 December 2012

Product data sheet

1. General description

74HC1G14-Q100 and 74HCT1G14-Q100 are high-speed Si-gate CMOS devices. They provide an inverting buffer function with Schmitt trigger action. These devices are capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

The HC device has CMOS input switching levels and supply voltage range 2 V to 6 V.

The HCT device has TTL input switching levels and supply voltage range 4.5 V to 5.5 V.

The standard output currents are half of those of the 74HC14-Q100 and 74HCT14-Q100.

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 $+85^{\circ}\text{C}$ and from -40°C to $+125^{\circ}\text{C}$
- Input levels:
 - ◆ For 74HC1G14-Q100: CMOS level
 - ◆ For 74HCT1G14-Q100: TTL level
- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- ESD protection:
 - ◆ MIL-STD-883, method 3015 exceeds 2000 V
 - ◆ HBM JESD22-A114F exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 V ($C = 200 \text{ pF}$, $R = 0 \Omega$)
- SOT353-1 and SOT753 package options

3. Applications

- Wave and pulse shapers
- Astable multivibrators
- Monostable multivibrators



4. Ordering information

Table 1. Ordering information

Type number	Package				Version
	Temperature range	Name	Description		
74HC1G14GW-Q100	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm		SOT353-1
74HCT1G14GW-Q100					
74HC1G14GV-Q100	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads		SOT753
74HCT1G14GV-Q100					

5. Marking

Table 2. Marking codes

Type number	Marking code ^[1]
74HC1G14GW-Q100	HF
74HCT1G14GW-Q100	TF
74HC1G14GV-Q100	H14
74HCT1G14GV-Q100	T14

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

6. Functional diagram

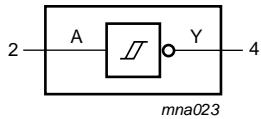


Fig 1. Logic symbol

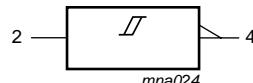


Fig 2. IEC logic symbol

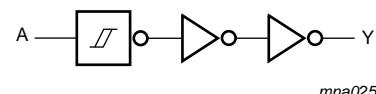


Fig 3. Logic diagram

7. Pinning information

7.1 Pinning

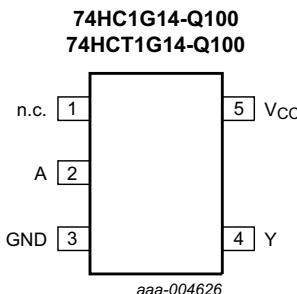


Fig 4. Pin configuration

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

H = HIGH voltage level; L = LOW voltage level

Input	Output
A	Y
L	H
H	L

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). [\[1\]](#)

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		-0.5	+7.0	V
I _{IK}	input clamping current	V _I < -0.5 V or V _I > V _{CC} + 0.5 V	-	±20	mA
I _{OK}	output clamping current	V _O < -0.5 V or V _O > V _{CC} + 0.5 V	-	±20	mA
I _O	output current	-0.5 V < V _O < V _{CC} + 0.5 V	-	±12.5	mA
I _{CC}	supply current		-	25	mA
I _{GND}	ground current		-25	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C	[2]	-	200 mW

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

[2] Above 55 °C, the value of P_{tot} derates linearly with 2.5 mW/K.

10. Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	74HC1G14-Q100			74HCT1G14-Q100			Unit
			Min	Typ	Max	Min	Typ	Max	
V _{CC}	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V

Table 6. Recommended operating conditions ...continued

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	74HC1G14-Q100			74HCT1G14-Q100			Unit
			Min	Typ	Max	Min	Typ	Max	
V_I	input voltage		0	-	V_{CC}	0	-	V_{CC}	V
V_O	output voltage		0	-	V_{CC}	0	-	V_{CC}	V
T_{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C

11. Static characteristics

Table 7. Static characteristicsVoltages are referenced to GND (ground = 0 V). All typical values are measured at $T_{amb} = 25$ °C.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	
For type 74HC1G14-Q100								
V_{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}						
		$I_O = -20 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	V
		$I_O = -20 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	V
		$I_O = -20 \mu A; V_{CC} = 6.0 V$	5.9	6.0	-	5.9	-	V
		$I_O = -2.0 mA; V_{CC} = 4.5 V$	4.13	4.32	-	3.7	-	V
		$I_O = -2.6 mA; V_{CC} = 6.0 V$	5.63	5.81	-	5.2	-	V
V_{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}						
		$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 V$	-	0	0.1	-	0.1	V
		$I_O = 2.0 mA; V_{CC} = 4.5 V$	-	0.15	0.33	-	0.4	V
		$I_O = 2.6 mA; V_{CC} = 6.0 V$	-	0.16	0.33	-	0.4	V
I_I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 V$	-	-	1.0	-	1.0	μA
I_{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0 A$; $V_{CC} = 6.0 V$	-	-	10	-	20	μA
C_I	input capacitance		-	1.5	-	-	-	pF
V_{T+}	positive-going threshold voltage	see Figure 7 and 8						
		$V_{CC} = 2.0 V$	0.7	1.09	1.5	0.7	1.5	V
		$V_{CC} = 4.5 V$	1.7	2.36	3.15	1.7	3.15	V
		$V_{CC} = 6.0 V$	2.1	3.12	4.2	2.1	4.2	V
V_{T-}	negative-going threshold voltage	see Figure 7 and 8						
		$V_{CC} = 2.0 V$	0.3	0.60	0.9	0.3	0.9	V
		$V_{CC} = 4.5 V$	0.9	1.53	2.0	0.9	2.0	V
		$V_{CC} = 6.0 V$	1.2	2.08	2.6	1.2	2.6	V
V_H	hysteresis voltage	see Figure 7 and 8						
		$V_{CC} = 2.0 V$	0.2	0.48	1.0	0.2	1.0	V
		$V_{CC} = 4.5 V$	0.4	0.83	1.4	0.4	1.4	V
		$V_{CC} = 6.0 V$	0.6	1.04	1.6	0.6	1.6	V

Table 7. Static characteristics ...continued

Voltages are referenced to GND (ground = 0 V). All typical values are measured at $T_{amb} = 25^\circ\text{C}$.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	
For type 74HCT1G14-Q100								
V_{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-} $I_O = -20 \mu\text{A}; V_{CC} = 4.5 \text{ V}$ $I_O = -2.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.4	4.5	-	4.4	-	V
V_{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-} $I_O = 20 \mu\text{A}; V_{CC} = 4.5 \text{ V}$ $I_O = 2.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0	0.1	-	0.1	V
I_I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	1.0	μA
I_{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0 \text{ A}$; $V_{CC} = 5.5 \text{ V}$	-	-	10	-	20	μA
ΔI_{CC}	additional supply current	per input; $V_{CC} = 4.5 \text{ V}$ to 5.5 V ; $V_I = V_{CC} - 2.1 \text{ V}$; $I_O = 0 \text{ A}$	-	-	500	-	850	μA
C_I	input capacitance		-	1.5	-	-	-	pF
V_{T+}	positive-going threshold voltage	see Figure 7 and 8						
		$V_{CC} = 4.5 \text{ V}$	1.2	1.55	1.9	1.2	1.9	V
		$V_{CC} = 5.5 \text{ V}$	1.4	1.80	2.1	1.4	2.1	V
V_{T-}	negative-going threshold voltage	see Figure 7 and 8						
		$V_{CC} = 4.5 \text{ V}$	0.5	0.76	1.2	0.5	1.2	V
		$V_{CC} = 5.5 \text{ V}$	0.6	0.90	1.4	0.6	1.4	V
V_H	hysteresis voltage	see Figure 7 and 8						
		$V_{CC} = 4.5 \text{ V}$	0.4	0.80	-	0.4	-	V
		$V_{CC} = 5.5 \text{ V}$	0.4	0.90	-	0.4	-	V

12. Dynamic characteristics

Table 8. Dynamic characteristics

 $GND = 0 \text{ V}$; $t_r = t_f \leq 6.0 \text{ ns}$; All typical values are measured at $T_{amb} = 25^\circ\text{C}$. For test circuit see [Figure 6](#)

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	
For type 74HC1G14-Q100								
t_{pd}	propagation delay A to Y; see Figure 5		[1]					
		$V_{CC} = 2.0 \text{ V}; C_L = 50 \text{ pF}$	-	25	155	-	190	ns
		$V_{CC} = 4.5 \text{ V}; C_L = 50 \text{ pF}$	-	12	31	-	38	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	10	-	-	-	ns
		$V_{CC} = 6.0 \text{ V}; C_L = 50 \text{ pF}$	-	11	26	-	32	ns
C_{PD}	power dissipation capacitance	$V_I = \text{GND to } V_{CC}$	[2]	-	20	-	-	pF

Table 8. Dynamic characteristics ...continuedGND = 0 V; $t_r = t_f \leq 6.0$ ns; All typical values are measured at $T_{amb} = 25$ °C. For test circuit see [Figure 6](#)

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C			Unit
			Min	Typ	Max	Min	Max		
For type 74HCT1G14-Q100									
t_{pd}	propagation delay	A to Y; see Figure 5	[1]						
		$V_{CC} = 4.5$ V; $C_L = 50$ pF	-	17	43	-	51	ns	
		$V_{CC} = 5.0$ V; $C_L = 15$ pF	-	15	-	-	-	ns	
C_{PD}	power dissipation capacitance	$V_I = \text{GND to } V_{CC} - 1.5$ V	[2]	-	22	-	-	-	pF

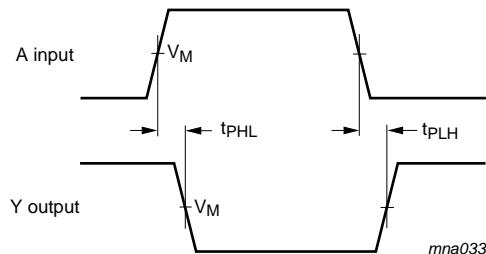
[1] t_{pd} is the same as t_{PLH} and t_{PHL} .[2] C_{PD} is used to determine the dynamic power dissipation P_D (μW).

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

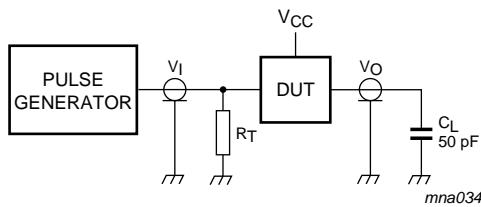
 f_i = input frequency in MHz; f_o = output frequency in MHz C_L = output load capacitance in pF; V_{CC} = supply voltage in Volts

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

13. Waveforms

Measurement points are given in [Table 9](#).**Fig 5. The input (A) to output (Y) propagation delays****Table 9. Measurement points**

Type number	Input	Output
74HC1G14-Q100	V_I GND to V_{CC}	V_M $0.5 \times V_{CC}$
74HCT1G14-Q100	GND to 3.0 V	1.5 V



Test data is given in [Table 8](#). Definitions for test circuit:

C_L = Load capacitance including jig and probe capacitance.

R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator.

Fig 6. Load circuitry for switching times

14. Transfer characteristics waveforms

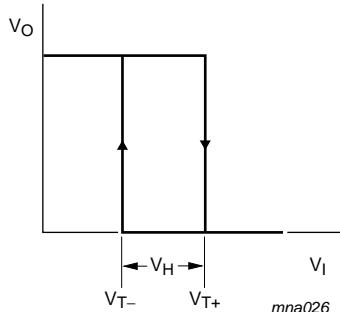


Fig 7. Transfer characteristic

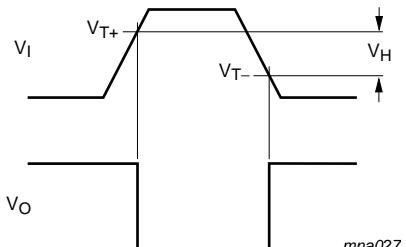


Fig 8. The definitions of V_{T+} , V_{T-} and V_H ; where V_{T+} and V_{T-} are between limits of 20 % and 70 %

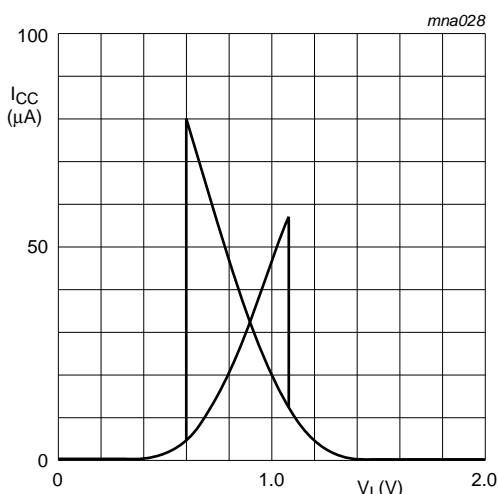


Fig 9. Typical 74HC1G14-Q100 transfer characteristics; $V_{CC} = 2.0$ V

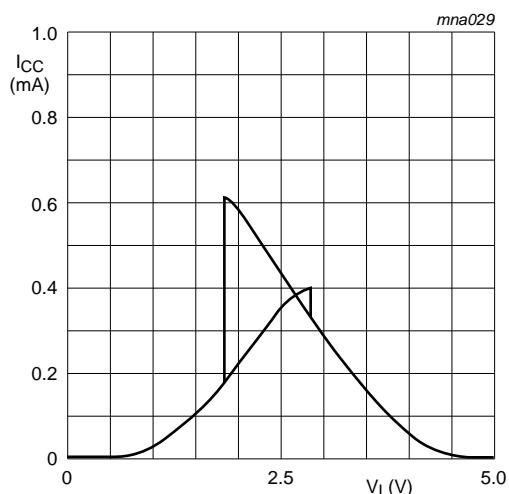
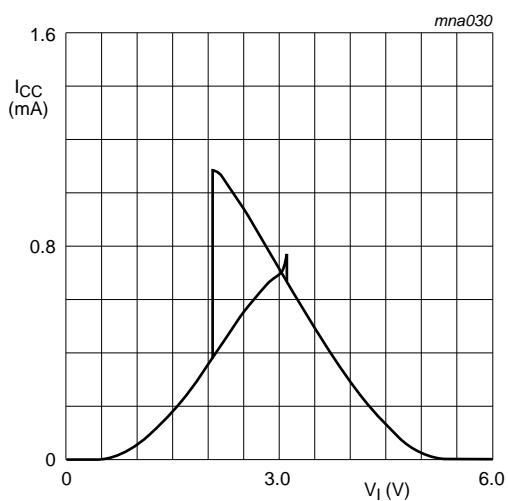
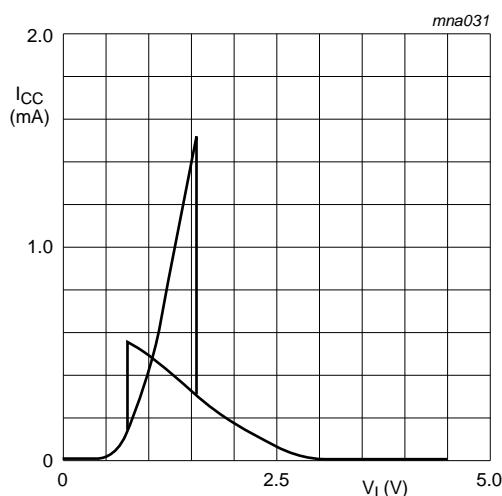
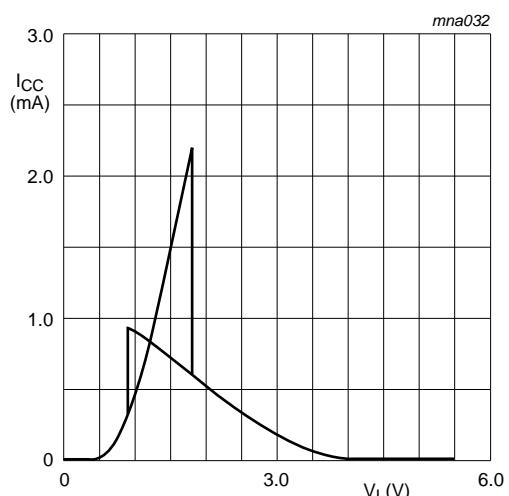


Fig 10. Typical 74HC1G14-Q100 transfer characteristics; $V_{CC} = 4.5$ V

Fig 11. Typical 74HC1G14-Q100 transfer characteristics; $V_{CC} = 6.0$ VFig 12. Typical 74HCT1G14-Q100 transfer characteristics; $V_{CC} = 4.5$ VFig 13. Typical 74HCT1G14-Q100 transfer characteristics; $V_{CC} = 5.5$ V

15. Application information

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

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

Where:

P_{add} = additional power dissipation (μ W)

f_i = input frequency (MHz)

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

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

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

$\Delta I_{CC(AV)}$ differs with positive or negative input transitions, as shown in [Figure 14](#) and [15](#).

74HC1G14-Q100 and 74HCT1G14-Q100 used in relaxation oscillator circuit, see [Figure 16](#).

Remark: All values given are typical unless otherwise specified.

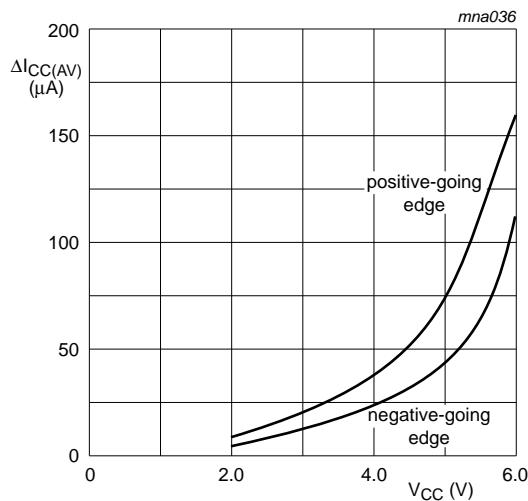


Fig 14. $\Delta I_{CC(AV)}$ for 74HC1G14-Q100 devices; linear change of V_I between $0.1 \times V_{CC}$ to $0.9 \times V_{CC}$

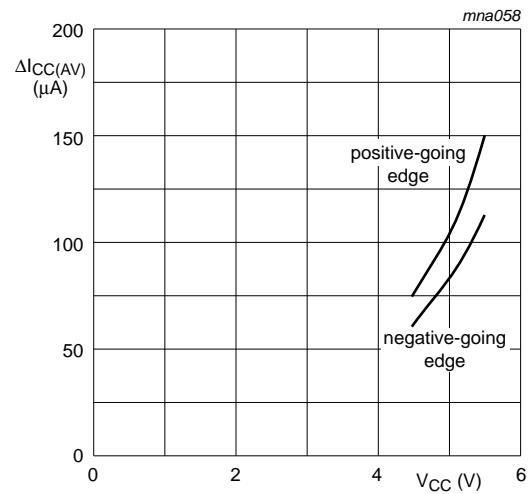
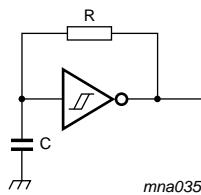


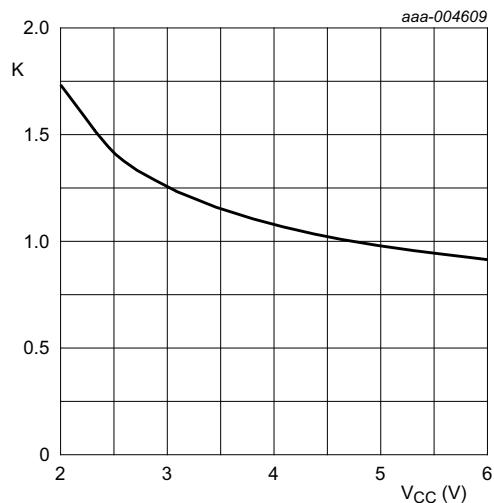
Fig 15. $\Delta I_{CC(AV)}$ for 74HCT1G14-Q100 devices; linear change of V_I between $0.1 \times V_{CC}$ to $0.9 \times V_{CC}$



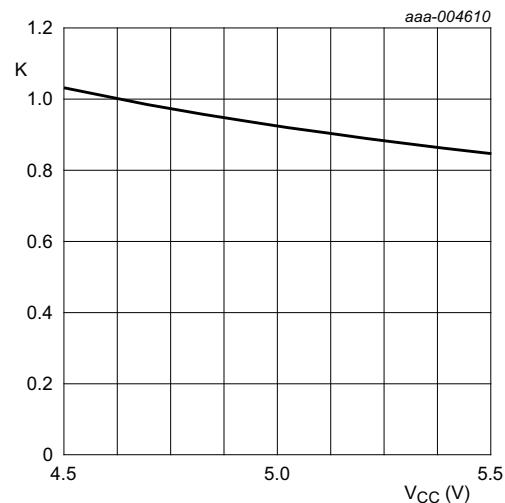
For 74HC1G14-Q100 and 74HCT1G14-Q100: $f = \frac{I}{T} \approx \frac{I}{K \times RC}$

For K-factor, see [Figure 17](#)

Fig 16. Relaxation oscillator



K-factor for 74HC1G14-Q100



K-factor for 74HCT1G14-Q100

Fig 17. Typical K-factor for relaxation oscillator

16. Package outline

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

SOT353-1

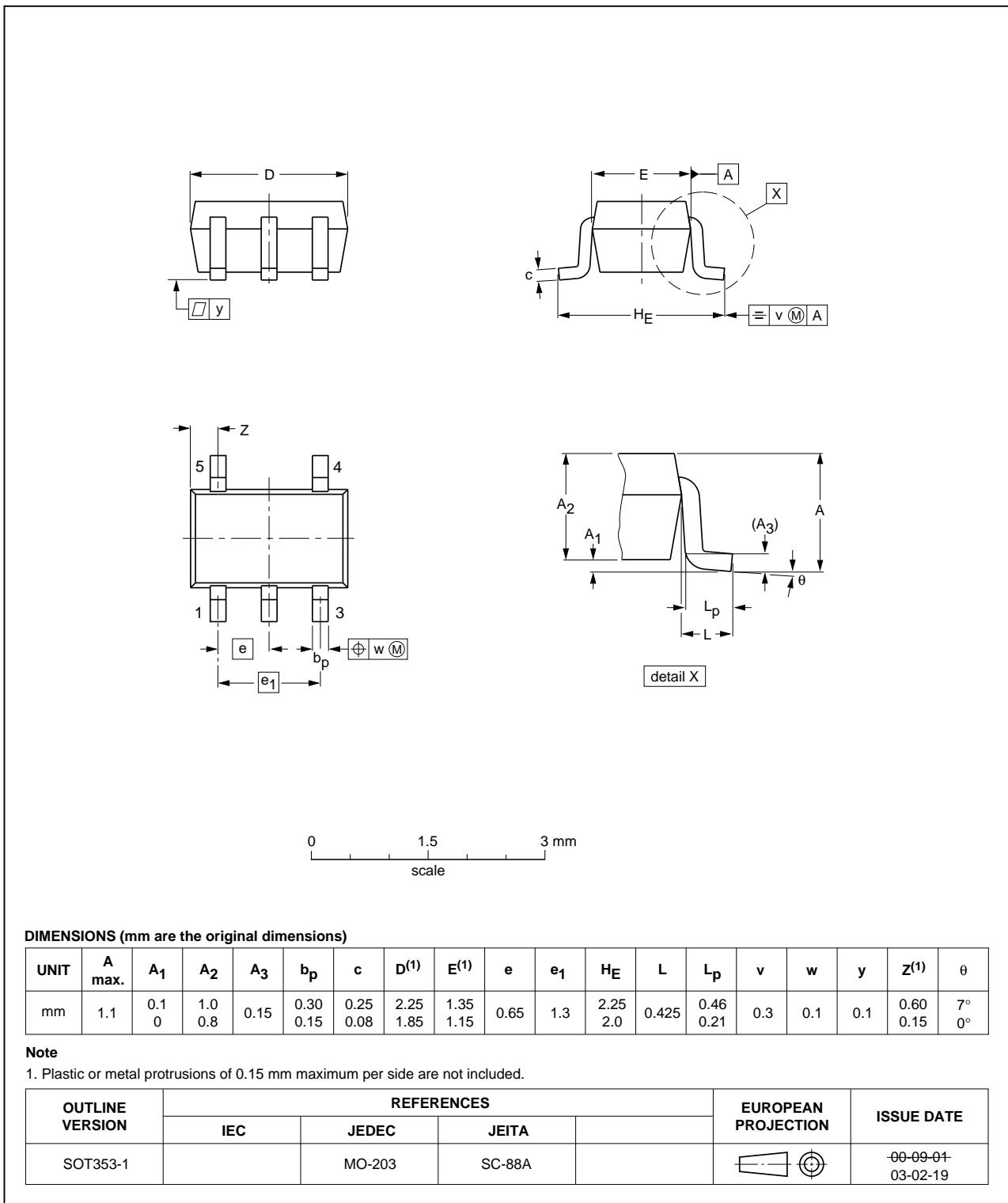


Fig 18. Package outline SOT353-1 (TSSOP5)

Plastic surface-mounted package; 5 leads

SOT753

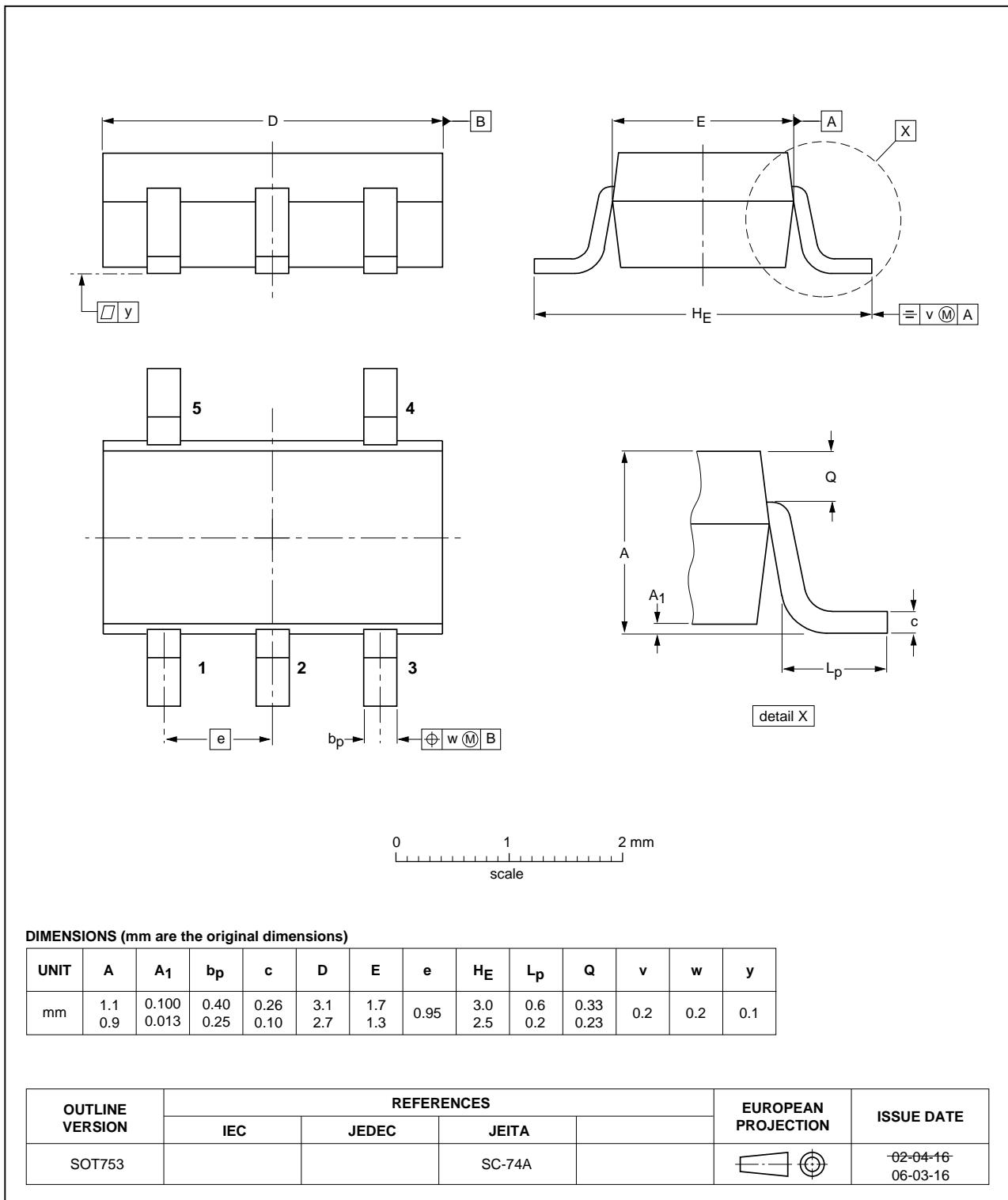


Fig 19. Package outline SOT753 (SC-74A)

17. Abbreviations

Table 10. Abbreviations

Acronym	Description
DUT	Device Under Test
TTL	Transistor-Transistor Logic

18. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT1G14_Q100 v.2	20121227	Product data sheet	-	74HC_HCT1G14_Q100 v.1
Modifications:	• Table 3 : Pin number Y output changed from 5 to 4 (errata).			
74HC_HCT1G14_Q100 v.1	20120820	Product data sheet	-	-

19. Legal information

19.1 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".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <http://www.nxp.com>.

19.2 Definitions

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