

74HCT1G14GW,125 Datasheet

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DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description

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 74HCT1G14GW,125-DG

 urer
 Nexperia USA Inc.

 ber
 74HCT1G14GW,125

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 IC INVERT SCHMITT 1CH 1IN 5TSSOP

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 Inverter IC 1 Channel Schmitt Trigger 5-TSSOP

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Manufacturer Product Number:	Manufacturer:
74HCT1G14GW,125	Nexperia USA Inc.
Series:	Product Status:
74HCT	Active
Logic Type:	Number of Circuits:
Inverter	1
Number of Inputs:	Features:
1	Schmitt Trigger
Voltage - Supply:	Current - Quiescent (Max):
4.5V ~ 5.5V	20 μΑ
Current - Output High, Low:	Input Logic Level - Low:
2mA, 2mA	0.5V ~ 0.6V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.9V ~ 2.1V	51ns @ 5V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
5-TSSOP	5-TSSOP, SC-70-5, SOT-353
Base Product Number:	
74HCT1G14	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

74HC1G14; 74HCT1G14

Inverting Schmitt trigger Rev. 8 — 5 December 2023

Product data sheet

1. General description

The 74HC1G14; 74HCT1G14 is a single inverter with Schmitt-trigger input. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} . Schmitt trigger inputs transform slowly changing input signals into sharply defined jitter-free output signals.

2. Features and benefits

- Wide supply voltage range from 2.0 V to 6.0 V
- Symmetrical output impedance
- High noise immunity
- CMOS low power dissipation
- · Unimited input rise and fall times
- Balanced propagation delays
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Input levels:
 - For 74HC1G14: CMOS level
 - For 74HCT1G14: TTL level
- Complies with JEDEC standards:
 - JESD8C (2.7 V to 3.6 V)
 - JESD7A (2.0 V to 6.0 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
- Specified from -40 °C to +85° C and -40° C to +125 °C

3. Applications

- Wave and pulse shapers
- Astable multivibrators
- Monostable multivibrators

4. Ordering information

Table 1. Ordering information

Type number	Package	Package								
	Temperature range	Name	Description	Version						
74HC1G14GW	-40 °C to +125 °C	TSSOP5								
74HCT1G14GW			5 leads; body width 1.25 mm							
74HC1G14GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	<u>SOT753</u>						
74HCT1G14GV										

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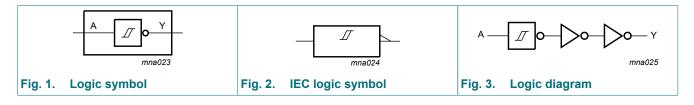
74HC1G14; 74HCT1G14

5. Marking

Table 2. Marking codes						
Type number	Marking code [1]					
74HC1G14GW	HF					
74HCT1G14GW	TF					
74HC1G14GV	H14					
74HCT1G14GV	T14					

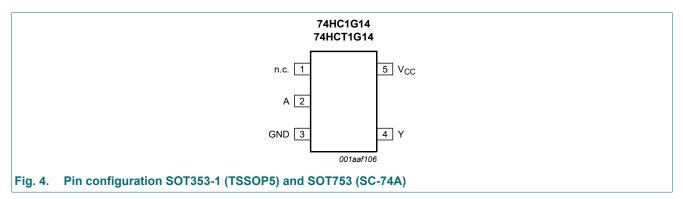
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

6. Functional 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

74HC_HCT1G14

8. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level

Input	Output
A	Y
L	Н
Н	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).

Symbol	Parameter	Conditions		Min	Max	Unit
V _{CC}	supply voltage			-0.5	+7.0	V
I _{IK}	input clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V		-	±20	mA
I _{ОК}	output clamping current	$V_{\rm O}$ < -0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V		-	±20	mA
lo	output current	$-0.5 V < V_O < V_{CC} + 0.5 V$	[1]	-	±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]	-	250	mW

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

[2] For SOT353-1 (TSSOP5) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT753 (SC-74A) package: P_{tot} derates linearly with 3.8 mW/K above 85 °C.

10. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74HC1G14			74	Unit		
			Min	Тур	Max	Min	Тур	Max	-
V _{CC}	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V _{CC}	0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C

Inverting Schmitt trigger

11. Static characteristics

Table 7. Static characteristics

Voltages are referenced to GND (ground = 0 V). All typical values are measured at T_{amb} = 25 °C.

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C t	Unit	
			Min	Тур	Max	Min	Мах	
74HC1G1	4							
V _{OH}	HIGH-level output	$V_{I} = V_{T+}$ or V_{T-}						
	voltage	I _O = -20 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	V
		I _O = -20 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	V
		I _O = -20 μA; 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	$V_{I} = V_{T+}$ or V_{T-}						
	voltage	I _O = 20 μA; V _{CC} = 2.0 V	-	0	0.1	-	0.1	V
		I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	V
		I _O = 20 μA; 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
l _l	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
CI	input capacitance		-	1.5	-	-	-	pF
V _{T+}	positive-going	see Fig. 7 and Fig. 8						
	threshold voltage	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	see Fig. 7 and Fig. 8						
	threshold voltage	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 Fig. 7 and Fig. 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

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Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C t	o +125 °C	Unit
			Min	Тур	Мах	Min	Max	
74HCT1G	14	1	-				,	
V _{OH}	HIGH-level output	$V_{I} = V_{T+}$ or V_{T-}						
	voltage	I _O = -20 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	V
		I _O = -2.0 mA; V _{CC} = 4.5 V	4.13	4.32	-	3.7	-	V
V _{OL}	LOW-level output	$V_{I} = V_{T+}$ or V_{T-}						
	voltage	I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	V
		I _O = 2.0 mA; V _{CC} = 4.5 V	-	0.15	0.33	-	0.4	V
l _l	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	1.0	-	1.0	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	10	-	20	μA
ΔI _{CC}	additional supply current	per input; V_{CC} = 4.5 V to 5.5 V; V_I = V_{CC} - 2.1 V; I_O = 0 A	-	-	500	-	850	μA
CI	input capacitance		-	1.5	-	-	-	pF
V _{T+}	positive-going	see Fig. 7 and Fig. 8						
	threshold voltage	V _{CC} = 4.5 V	1.2	1.55	1.9	1.2	1.9	V
		V _{CC} = 5.5 V	1.4	1.80	2.1	1.4	2.1	V
V _{T-}	negative-going	see Fig. 7 and Fig. 8						
	threshold voltage	V _{CC} = 4.5 V	0.5	0.76	1.2	0.5	1.2	V
		V _{CC} = 5.5 V	0.6	0.90	1.4	0.6	1.4	V
V _H	hysteresis voltage	see <u>Fig. 7</u> and <u>Fig. 8</u>						
		V _{CC} = 4.5 V	0.4	0.80	-	0.4	-	V
		V _{CC} = 5.5 V	0.4	0.90	-	0.4	-	V

12. Dynamic characteristics

Table 8. Dynamic characteristics

GND = 0 V; $t_r = t_f \le 6.0$ ns; All typical values are measured at $T_{amb} = 25$ °C. For test circuit see Fig. 6.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C t	Unit	
			Ī	Min Typ Max		Min	Max	1	
74HC1G	14		I				-	1	
t _{pd}	propagation delay	A to Y; see Fig. 5	[1]						
		V _{CC} = 2.0 V; C _L = 50 pF		-	25	155	-	190	ns
		V _{CC} = 4.5 V; C _L = 50 pF		-	12	31	-	38	ns
		V _{CC} = 5.0 V; C _L = 15 pF		-	10	-	-	-	ns
		V _{CC} = 6.0 V; C _L = 50 pF		-	11	26	-	32	ns
C _{PD}	power dissipation capacitance	$V_I = GND$ to V_{CC}	[2]	-	20	-	-	-	pF
74HCT1	G14								
t _{pd}	propagation delay	A to Y; see Fig. 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	$V_I = GND$ to V_{CC} - 1.5 V	[2]	-	22	-	-	-	pF

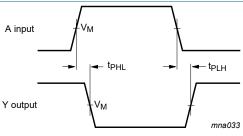
[1] [2]

 $t_{pd} \text{ is the same as } t_{PLH} \text{ and } t_{PHL}. \\ C_{PD} \text{ is used to determine the dynamic power dissipation } P_D (\mu W). \\ P_D = C_{PD} \times V_{CC}^2 \times f_i + a (C_L \times V_{CC}^2 \times f_o) \text{ where:} \\ f_i = \text{ input frequency in MHz; } f_o = \text{ output frequency in MHz}$

 C_L = output load capacitance in pF; V_{CC} = supply voltage in Volts

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

12.1. Waveforms and test circuit



Measurement points are given in Table 9.

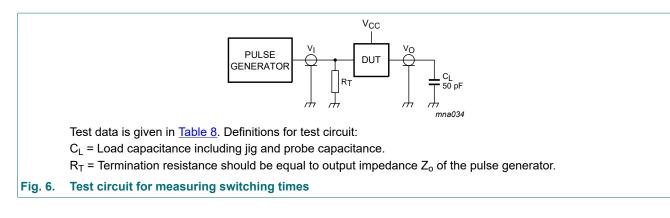
Fig. 5. The input (A) to output (Y) propagation delays

Table 9. Measurement points

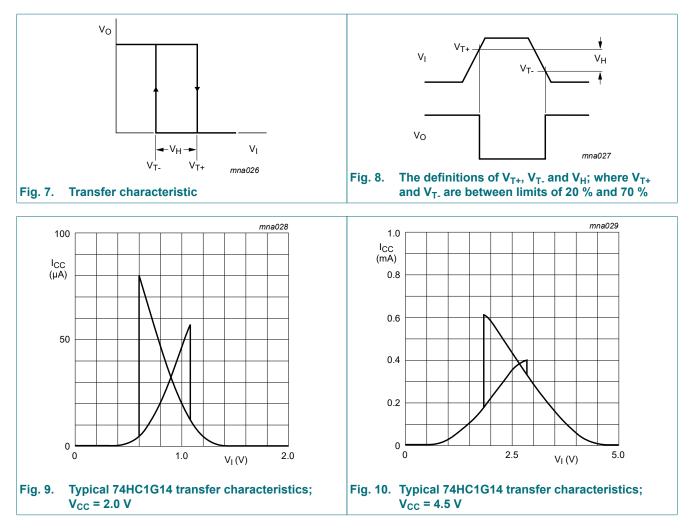
Type number	Input	Output	
	V _I V _M V		V _M
74HC1G14	GND to V _{CC}	0.5 × V _{CC}	$0.5 \times V_{CC}$
74HCT1G14	GND to 3.0 V	1.5 V	$0.5 \times V_{CC}$

74HC1G14; 74HCT1G14

Inverting Schmitt trigger

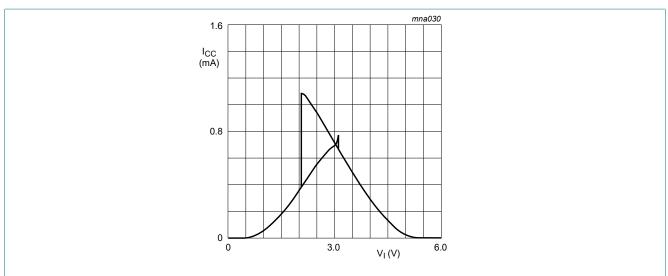


12.2. Transfer characteristics waveforms

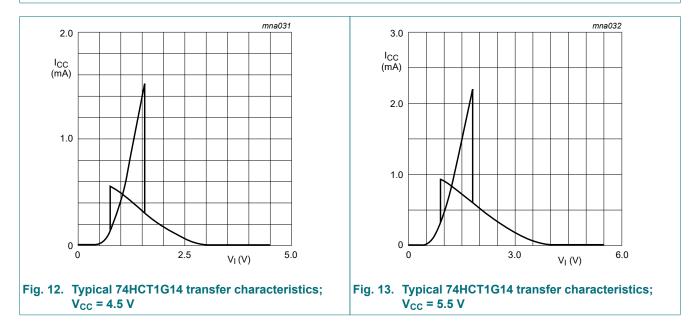


74HC1G14; 74HCT1G14

Inverting Schmitt trigger







13. Application information

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

 $\mathsf{P}_{\mathsf{add}} = \mathsf{f}_{\mathsf{i}} \times (\mathsf{t}_{\mathsf{r}} \times \Delta \mathsf{I}_{\mathsf{CC}(\mathsf{AV})} + \mathsf{t}_{\mathsf{f}} \times \Delta \mathsf{I}_{\mathsf{CC}(\mathsf{AV})}) \times \mathsf{V}_{\mathsf{CC}}$

Where:

 P_{add} = additional power dissipation (µW)

 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 Fig. 14 and Fig. 15.

74HC1G14 and 74HCT1G14 used in relaxation oscillator circuit, see Fig. 16.

Remark: All values given are typical unless otherwise specified.

74HC1G14; 74HCT1G14

Inverting Schmitt trigger

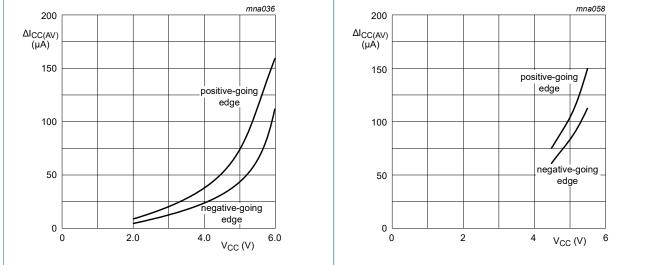
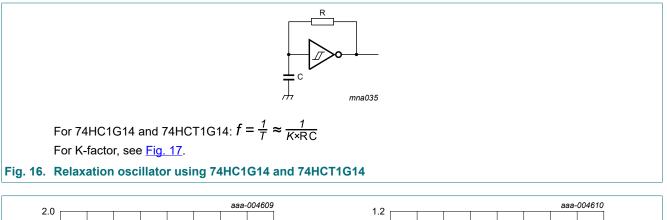
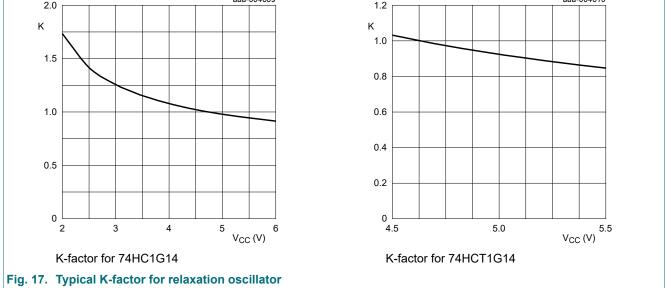


Fig. 14. ΔI_{CC(AV)} for 74HC1G14 devices; linear change of
V_I between 0.1 × V_{CC} to 0.9 × V_{CC}Fig. 15. ΔI_{CC(AV)} for 74HCT1G14 devices; linear change
of V_I between 0.1 × V_{CC} to 0.9 × V_{CC}





9/14

74HC1G14; 74HCT1G14

Inverting Schmitt trigger

14. Package outline

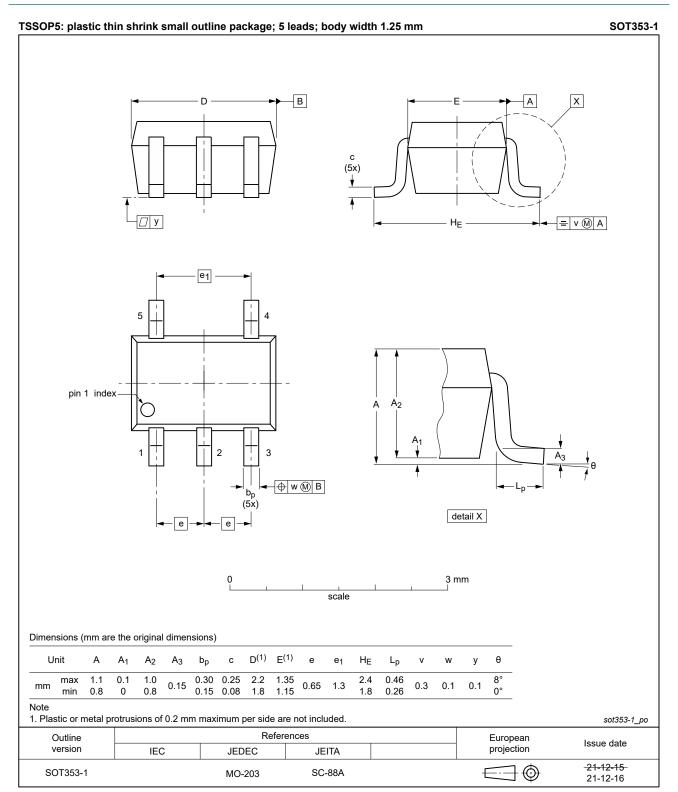


Fig. 18. Package outline SOT353-1 (TSSOP5)

74HC_HCT1G14

74HC1G14; 74HCT1G14

Inverting Schmitt trigger

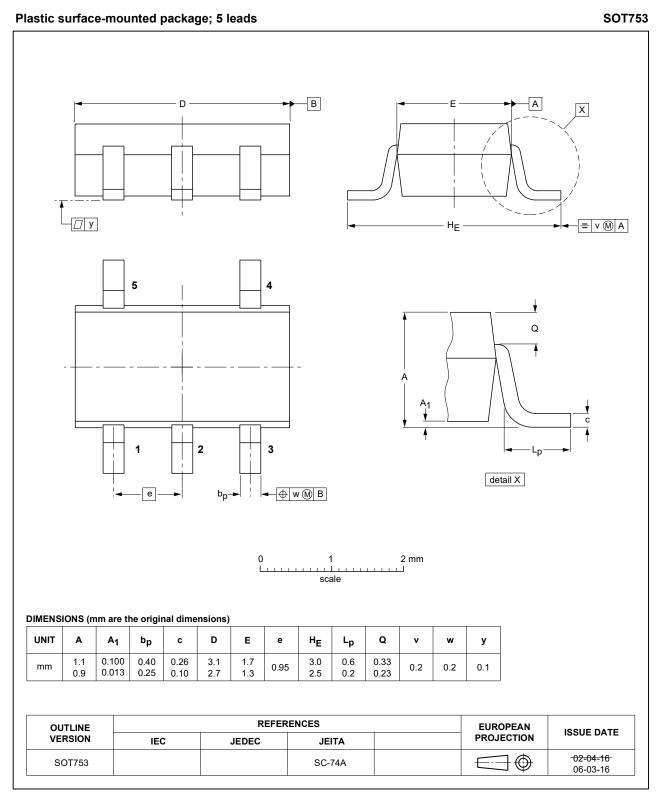


Fig. 19. Package outline SOT753 (SC-74A)

15. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
TTL	Transistor-Transistor Logic

16. Revision history

Table 11. Revision histo	ory			
Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT1G14 v.8	20231205	Product data sheet	-	74HC_HCT1G14 v.7
Modifications:	• <u>Section 2</u> : ES	D specification updated accord	ing to the latest JEI	DEC standard.
74HC_HCT1G14 v.7	20220117	Product data sheet	-	74HC_HCT1G14 v.6
Modifications:	Nexperia. • Legal texts ha • <u>Section 1</u> and • <u>Table 5</u> : Dera	this data sheet has been redes we been adapted to the new co <u>Section 2</u> updated. ting values for P _{tot} total power o age outline drawing for SOT353	ompany name wher	e appropriate.
74HC_HCT1G14 v.6	20121227	Product data sheet	-	74HC_HCT1G14 v.5
Modifications:	• <u>Table 3</u> : Pin n	umber Y output changed from	5 to 4 (errata).	
74HC_HCT1G14 v.5	20120924	Product data sheet	-	74HC_HCT1G14 v.4
Modifications:	 Fig. 17 added Legal page up 	(typical K-factor for relaxation odated.	oscillator).	
74HC_HCT1G14 v.4	20070717	Product data sheet	-	74HC_HCT1G14 v.3
74HC_HCT1G14 v.3	20020515	Product specification	-	74HC_HCT1G14 v.2
74HC_HCT1G14 v.2	20010302	Product specification	-	74HC_HCT1G14 v.1
74HC_HCT1G14 v.1	19980805	Product specification	-	-

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Inverting Schmitt trigger

17. 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.

 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 <u>https://www.nexperia.com</u>.

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Inverting Schmitt trigger

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