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Team Nexperia

74AHC1G00; 74AHCT1G00

2-input NAND gate Rev. 7 — 5 November 2014

Product data sheet

1. **General description**

74AHC1G00 and 74AHCT1G00 are high-speed Si-gate CMOS devices. They provide a 2-input NAND function.

The AHC device has CMOS input switching levels and supply voltage range 2 V to 5.5 V.

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

2. Features and benefits

- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- SOT353-1 and SOT753 package options
- ESD protection:
 - ◆ HBM JESD22-A114E: exceeds 2000 V
 - ♦ MM JESD22-A115-A: exceeds 200 V
 - ◆ CDM JESD22-C101C: exceeds 1000 V
- Specified from –40 °C to +125 °C

Ordering information 3.

Table 1. **Ordering information**

Type number	Package									
	Temperature range	Name	Description	Version						
74AHC1G00GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package;	SOT353-1						
74AHCT1G00GW			5 leads; body width 1.25 mm							
74AHC1G00GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753						
74AHCT1G00GV										



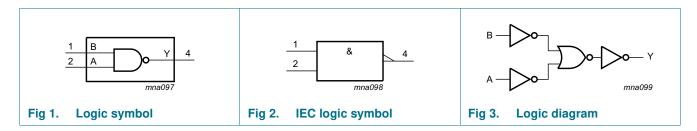
4. Marking

Table 2. Marking codes

Type number	Marking ^[1]
74AHC1G00GW	AA
74AHC1G00GV	A00
74AHCT1G00GW	CA
74AHCT1G00GV	C00

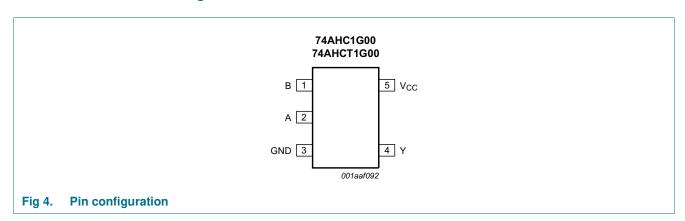
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
В	1	data input
Α	2	data input
GND	3	ground (0 V)
Υ	4	data output
V _{CC}	5	supply voltage

74AHC_AHCT1G00

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7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level

Inputs		Output
Α	В	Υ
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	L

8. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions		Min	Max	Unit
V _{CC}	supply voltage			-0.5	+7.0	V
VI	input voltage			-0.5	+7.0	V
I _{IK}	input clamping current	V _I < -0.5 V		-20	-	mA
I _{OK}	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$	[1]	-	±20	mA
Io	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$		-	±25	mA
I _{CC}	supply current			-	75	mA
I _{GND}	ground current			-75	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[2]	-	250	mW

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

9. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74	AHC1G	00	74	Unit		
			Min	Тур	Max	Min	Тур	Max	
V _{CC}	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	٧
VI	input voltage		0	-	5.5	0	-	5.5	٧
Vo	output voltage		0	-	V _{CC}	0	-	V_{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	-	-	100	-	-	-	ns/V
	and fall rate	$V_{CC} = 5.0 \text{ V} \pm 0.5 \text{ V}$	-	-	20	-	-	20	ns/V

^[2] For both TSSOP5 and SC-74A packages: above 87.5 °C the value of Ptot derates linearly with 4.0 mW/K.

10. Static characteristics

Table 7. Static characteristics

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

Symbol Parameter		Conditions		25 °C		-40 °C	to +85 °C	-40 °C t	o +125 °C	Uni
			Min	Тур	Max	Min	Max	Min	Max	
For type	74AHC1G00									
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	٧
	input voltage	V _{CC} = 3.0 V	2.1	-	-	2.1	-	2.1	-	٧
		V _{CC} = 5.5 V	3.85	-	-	3.85	-	3.85	-	٧
V _{IL}	LOW-level	V _{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	٧
	input voltage	V _{CC} = 3.0 V	-	-	0.9	-	0.9	-	0.9	٧
		V _{CC} = 5.5 V	-	-	1.65	-	1.65	-	1.65	٧
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}								
	output voltage	$I_O = -50 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	٧
		$I_O = -50 \mu A; V_{CC} = 3.0 V$	2.9	3.0	-	2.9	-	2.9	-	٧
		$I_O = -50 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	4.4	-	٧
		$I_O = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	٧
		$I_O = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.8	-	3.70	-	٧
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}								
	output voltage	$I_O = 50 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	-	0.1	٧
	$I_O = 50 \mu A; V_{CC} = 3.0 V$	-	0	0.1	-	0.1	-	0.1	٧	
		$I_O = 50 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	٧
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	-	0.44	-	0.55	٧
		$I_O = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.36	-	0.44	-	0.55	٧
lı	input leakage current	$V_I = 5.5 \text{ V or GND};$ $V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	-	0.1	-	1.0	-	2.0	μА
lcc	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	10	-	40	μА
Cı	input capacitance		-	1.5	10	-	10	-	10	pF
For type	74AHCT1G00					I .	I .			
V _{IH}	HIGH-level input voltage	V_{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V_{CC} = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	٧
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -8.0 \text{ mA}$	3.94	-	-	3.8	-	3.70	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	Ι _Ο = 50 μΑ	-	0	0.1	-	0.1	-	0.1	٧
		I _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	٧
lı	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ

74AHC_AHCT1G00

 Table 7.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions		25 °C			o +85 °C	-40 °C to	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.0	-	10	-	40	μΑ
ΔI_{CC}		per input pin; $V_I = 3.4 \text{ V}$; other inputs at V_{CC} or GND; $I_O = 0 \text{ A}$; $V_{CC} = 5.5 \text{ V}$	-	-	1.35	-	1.5	-	1.5	mA
Cı	input capacitance		-	1.5	10	-	10	-	10	pF

11. Dynamic characteristics

Table 8. Dynamic characteristics

GND = 0 V; $t_r = t_f = \le 3.0$ ns. For test circuit see <u>Figure 6</u>.

Symbol	Parameter	Conditions			25 °C		-40 °C	to +85 °C	–40 °C t	o +125 °C	Unit
					Тур	Max	Min	Max	Min	Max	
For type	74AHC1G00								-		
t _{pd}	propagation	A and B to Y; see Figure 5	[1]								
	delay	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	[2]								
		C _L = 15 pF		-	4.5	7.9	1.0	9.5	1.0	10.5	ns
		C _L = 50 pF		-	6.5	11.4	1.0	13.0	1.0	14.5	ns
		V _{CC} = 4.5 V to 5.5 V	[3]								
	C _L = 15 pF		-	3.5	5.5	1.0	6.5	1.0	7.0	ns	
		C _L = 50 pF		-	4.9	7.5	1.0	8.5	1.0	9.5	ns
C _{PD}	power dissipation capacitance	per buffer; [4] $C_L = 50 \text{ pF}$; $f = 1 \text{ MHz}$; $V_I = \text{GND to } V_{CC}$		-	17	-	-	-	-	-	pF
For type	74AHCT1G0						1		1	1	
t _{pd}	propagation	A and B to Y; see Figure 5	[1]								
	delay	V _{CC} = 4.5 V to 5.5 V	[3]								
		C _L = 15 pF		-	3.6	6.2	1.0	7.1	1.0	8.0	ns
		C _L = 50 pF		-	5.0	7.9	1.0	9.0	1.0	10.0	ns
C _{PD}	power dissipation capacitance	per buffer; $V_I = GND$ to V_{CC}	[4]	-	18	-	-	-	-	-	pF

- [1] t_{pd} is the same as t_{PLH} and t_{PHL} .
- [2] Typical values are measured at $V_{CC} = 3.3 \text{ V}$.
- [3] Typical values are measured at $V_{CC} = 5.0 \text{ V}$.
- [4] C_{PD} is used to determine the dynamic power dissipation P_D (μW).

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

74AHC AHCT1G00

12. Waveforms

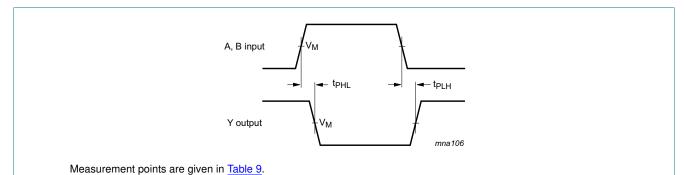
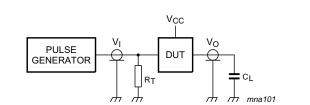


Fig 5. The inputs (A and B) to output (Y) propagation delays

Table 9. Measurement point

Туре	Input	Output	
	V _I	V _M	V _M
74AHC1G00	GND to V _{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
74AHCT1G00	GND to 3.0 V	1.5 V	$0.5 \times V_{CC}$



Test data is given in $\underline{\text{Table 8}}$. Definitions for test circuit:

C_L = Load capacitance including jig and probe capacitance.

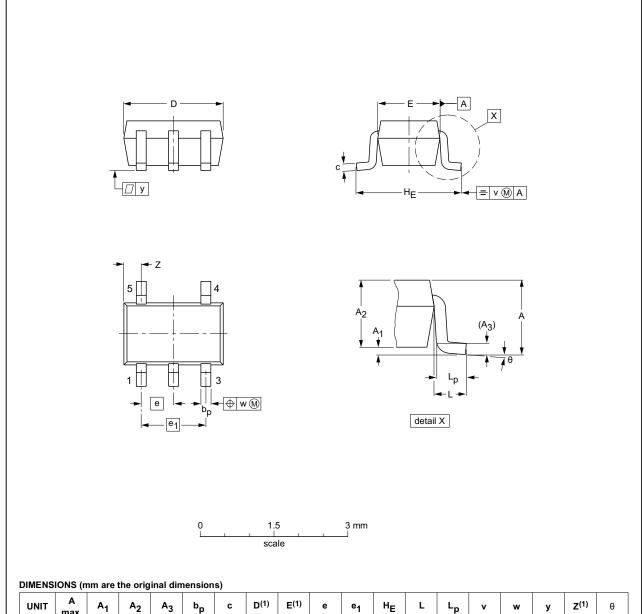
 R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator.

Fig 6. Test circuit for measuring switching times

13. Package outline

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

SOT353-1



UNIT	A max.	A ₁	A ₂	Α3	bр	C	D ⁽¹⁾	E ⁽¹⁾	е	e ₁	HE	L	Lp	v	w	у	Z ⁽¹⁾	θ	
mm	1.1	0.1 0	1.0 0.8	0.15	0.30 0.15	0.25 0.08	2.25 1.85	1.35 1.15	0.65	1.3	2.25 2.0	0.425	0.46 0.21	0.3	0.1	0.1	0.60 0.15	7° 0°	

Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT353-1		MO-203	SC-88A			00-09-01 03-02-19

Fig 7. Package outline SOT353-1 (TSSOP5)

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SOT753 Plastic surface-mounted package; 5 leads В Α X = v (M) A H_{E} 5 Q 3 detail X **→** | w (M) B е scale **DIMENSIONS** (mm are the original dimensions) UNIT D Q С Ε A_1 bp е ΗE $L_{\mathbf{p}}$ w у 0.100 0.40 3.0 2.5 3.1 2.7 1.1 0.26 1.7 0.6 0.33 0.95 0.1 0.013 0.25 0.9 0.10 1.3 0.23 0.2 REFERENCES **EUROPEAN** OUTLINE ISSUE DATE VERSION JEDEC **PROJECTION** IEC **JEITA** 02-04-16 SOT753 SC-74A

Fig 8. Package outline SOT753 (SC-74A)

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06-03-16

14. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

15. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AHC_AHCT1G00 v.7	20141105	Product data sheet	-	74AHC_AHCT1G00 v.6	
Modifications:	Section 4: tab	ole note added.			
74AHC_AHCT1G00 v.6	20070530	Product data sheet	-	74AHC_AHCT1G00 v.5	
Modifications:		this data sheet has been r NXP Semiconductors.	edesigned to comply	with the new identity	
	 Legal texts have 	ave been adapted to the ne	w company name w	here appropriate.	
	Package SOT	「353 changed to SOT353-	1 in <u>Section 3</u> and <u>Sec</u>	ection 13.	
	Quick reference data and Soldering sections removed.				
74AHC_AHCT1G00 v.5	20020527	Product specification	-	74AHC_AHCT1G00 v.4	
74AHC_AHCT1G00 v.4	20020227	Product specification	-	74AHC_AHCT1G00 v.3	
74AHC_AHCT1G00 v.3	20010131	Product specification	-	74AHC_AHCT1G00 v.2	
74AHC_AHCT1G00 v.2	19990127	Product specification	-	74AHC_AHCT1G00_N v.1	
74AHC_AHCT1G00_N v.1	19981125	Preliminary specification	-	-	

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Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
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74AHC1G00; 74AHCT1G00

2-input NAND gate

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