

# 74AHC1G02GW,125 Datasheet

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DiGi Electronics Part Number 74AHC1G02GW,125-DG

Manufacturer Nexperia USA Inc.

Manufacturer Product Number 74AHC1G02GW,125

Description IC GATE NOR 1CH 2-INP 5TSSOP

Detailed Description NOR Gate IC 1 Channel 5-TSSOP



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# **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
74AHC1G02GW,125	Nexperia USA Inc.
Series:	Product Status:
74AHC	Active
Logic Type:	Number of Circuits:
NOR Gate	1
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
2V ~ 5.5V	1 μΑ
Current - Output High, Low:	Input Logic Level - Low:
8mA, 8mA	0.5V ~ 1.65V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.5V ~ 3.85V	7.5ns @ 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:	
74AHC1G02	

# **Environmental & Export classification**

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

# 2-input NOR gate

Rev. 10 — 19 September 2024

**Product data sheet** 

### 1. General description

The 74AHC1G02; 74AHCT1G02 is a single 2-input NOR gate. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

### 2. Features and benefits

- Wide supply voltage range from 2.0 to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- · High noise immunity
- CMOS low power dissipation
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- · Symmetrical output impedance
- Balanced propagation delays
- Input levels:
  - For 74AHC1G02: CMOS level
  - For 74AHCT1G02: TTL level
- 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 +125 °C

# 3. Ordering information

**Table 1. Ordering information** 

Type number	Package									
	Temperature range	Name	Description	Version						
74AHC1G02GW 74AHCT1G02GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1						
74AHC1G02GV 74AHCT1G02GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	<u>SOT753</u>						
74AHC1G02GZ 74AHCT1G02GZ	-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	SOT8065-1						



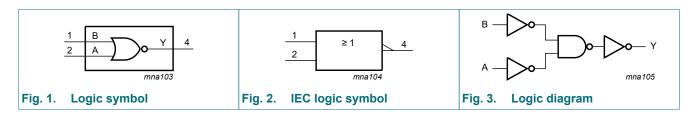
# 4. Marking

#### Table 2. Marking codes

Type number	Marking[1]
74AHC1G02GW	AB
74AHC1G02GV	A02
74AHC1G02GZ	tbd
74AHCT1G02GW	СВ
74AHCT1G02GV	C02
74AHCT1G02GZ	tbd

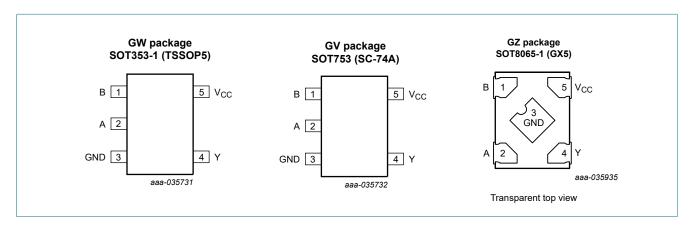
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

### 5. Functional diagram



# 6. Pinning information

### 6.1. Pinning



### 6.2. Pin description

Table 3. Pin description

table 5.1 in description								
Symbol	Pin	Description						
В	1	data input B						
A	2	data input A						
GND	3	ground (0 V)						
Υ	4	data output Y						
V <sub>CC</sub>	5	supply voltage						

### 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	L
Н	L	L
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 <sub>CC</sub>	supply voltage			-0.5	+7.0	V
VI	input voltage			-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < -0.5 V		-20	-	mA
I <sub>OK</sub>	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 <sub>CC</sub>	supply current			-	75	mA
$I_{GND}$	ground current			-75	-	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

<sup>[1]</sup> 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	74AHC1G02			74AHCT1G02			
			Min	Тур	Max	Min	Тур	Max		
$V_{CC}$	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V	
VI	input voltage		0	-	5.5	0	-	5.5	V	
V <sub>O</sub>	output voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V	
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C	
Δt/ΔV	Δt/ΔV input transition rise and fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	-	-	100	-	-	-	ns/V	
		V <sub>CC</sub> = 5.0 V ± 0.5 V	-	-	20	-	-	20	ns/V	

<sup>[2]</sup> 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.

# 10. Static characteristics

### **Table 7. Static characteristics**

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

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHC1	G02									
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
	V <sub>CC</sub> = 5.5 V	3.85	-	-	3.85	-	3.85	-	V	
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V <sub>CC</sub> = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	$I_O = -50 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_O = -50 \mu A; V_{CC} = 3.0 V$	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	-	V
		$I_O = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	V
		$I_O = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.8	-	3.70	-	V
V <sub>OL</sub>	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	V
		$I_O = 50 \mu A; V_{CC} = 3.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
		$I_O = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
l <sub>l</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	10	-	40	μΑ
C <sub>I</sub>	input capacitance		-	1.5	10	-	10	-	10	pF
74AHCT	1G02									
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 V$								
	output voltage	I <sub>O</sub> = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -8.0 mA	3.94	-	-	3.8	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 V$								
	output voltage	I <sub>O</sub> = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
l <sub>l</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I <sub>cc</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	10	-	40	μΑ

2-input NOR gate

Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Max	Min	Max	Min	Max	
ΔI <sub>CC</sub>	supply current	per input pin; $V_I$ = 3.4 V; other inputs at $V_{CC}$ or GND; $I_O$ = 0 A; $V_{CC}$ = 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
C <sub>I</sub>	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 Fig. 5.

Symbol	Parameter	Conditions			25 °C		-40 °C t	o +85 °C	-40 °C to	o +125 °C	Unit	
				Min	Тур	Max	Min	Max	Min	Max		
74AHC1	G02											
	propagation	A and B to Y; see Fig. 4	[1]									
	delay	V <sub>CC</sub> = 3.0 V to 3.6 V	[2]									
		C <sub>L</sub> = 15 pF		-	4.4	7.9	1.0	9.5	1.0	10.5	ns	
		C <sub>L</sub> = 50 pF		-	6.3	11.4	1.0	13	1.0	14.5	ns	
		V <sub>CC</sub> = 4.5 V to 5.5 V	[3]									
		C <sub>L</sub> = 15 pF		-	3.2	5.5	1.0	6.5	1.0	7.0	ns	
		C <sub>L</sub> = 50 pF		-	4.6	7.5	1.0	8.5	1.0	9.5	ns	
C <sub>PD</sub>	power dissipation capacitance	$C_L$ = 50 pF; f = 1 MHz; $V_I$ = GND to $V_{CC}$	[4]	-	18	-	-	-	-	-	pF	
74AHCT	1G02							1				
t <sub>pd</sub>	propagation	A and B to Y; see Fig. 4	[1]									
	delay	V <sub>CC</sub> = 4.5 V to 5.5 V	[3]									
		C <sub>L</sub> = 15 pF		-	3.5	5.5	1.0	6.5	1.0	7.0	ns	
		C <sub>L</sub> = 50 pF		-	4.9	7.5	1.0	8.5	1.0	9.5	ns	
C <sub>PD</sub>	power dissipation capacitance	$C_L$ = 50 pF; f = 1 MHz; $V_I$ = GND to $V_{CC}$	[4]	-	19	-	-	-	-	-	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  $P_D$  ( $\mu$ W).  $P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma(C_L \times V_{CC}^2 \times f_o)$  where:

 $f_i$  = input frequency in MHz;  $f_o$  = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

 $V_{CC}$  = supply voltage in V.

### 11.1. Waveform and test circuit

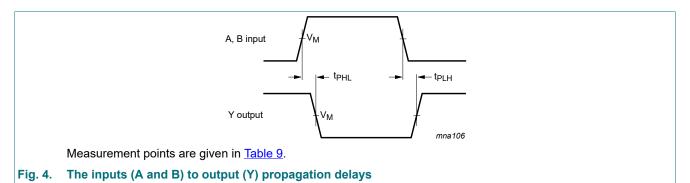
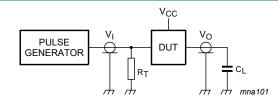


Table 9. Measurement point

Туре	Input	Output	
	VI	V <sub>M</sub>	
74AHC1G02	GND to V <sub>CC</sub>	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>
74AHCT1G02	GND to 3.0 V	1.5 V	0.5 × V <sub>CC</sub>



Test data is given in Table 8.

Definitions for test circuit:

C<sub>L</sub> = Load capacitance including jig and probe capacitance;

 $R_T$  = Termination resistance should be equal to output impedance  $Z_0$  of the pulse generator.

Fig. 5. Test circuit for measuring switching times

# 12. Package outline

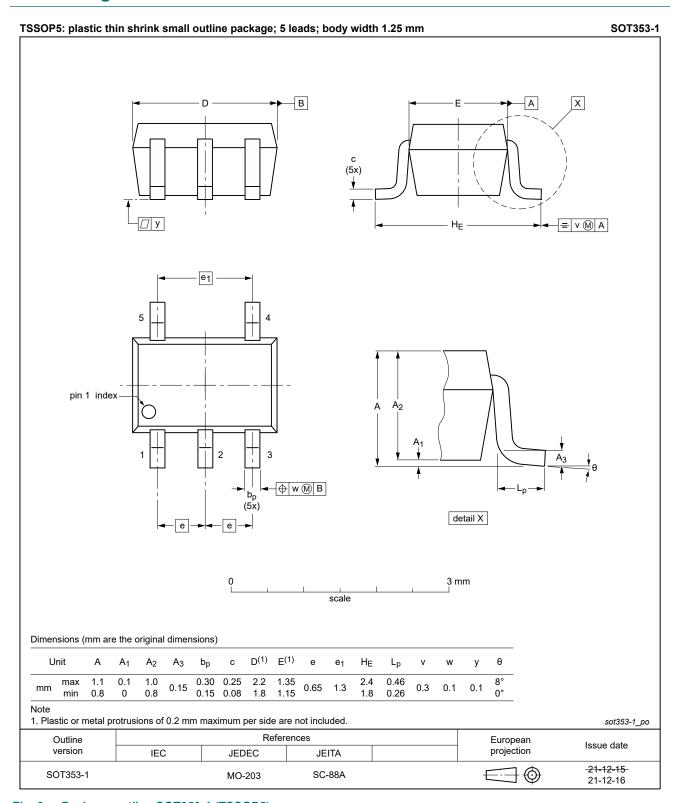


Fig. 6. Package outline SOT353-1 (TSSOP5)

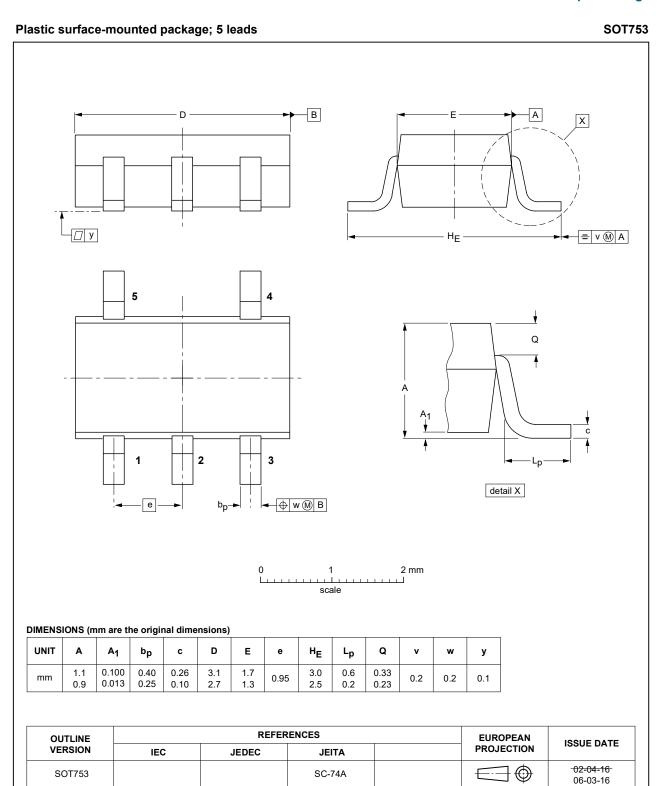


Fig. 7. Package outline SOT753 (SC-74A)

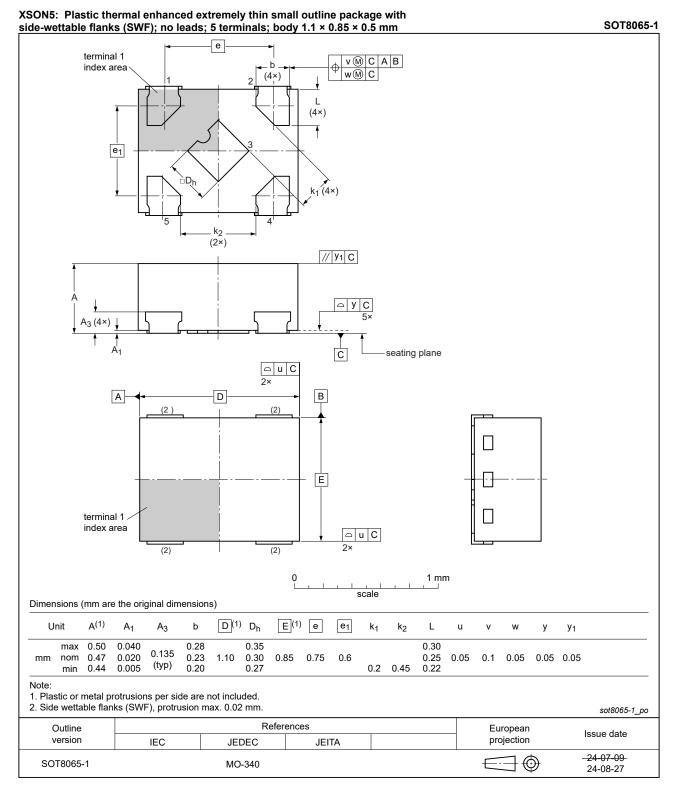


Fig. 8. Package outline SOT8065-1 (XSON5)

### 13. Abbreviations

#### **Table 10. Abbreviations**

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

# 14. Revision history

### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74AHC_AHCT1G02 v. 10	20240919	Product data sheet	-	74AHC_AHCT1G02 v.9		
Modifications:	Type numbers 74AHC1G02GZ and 74AHCT1G02GZ (SOT8065-1/XSON5) added.					
74AHC_AHCT1G02 v. 9	20230908	Product data sheet	-	74AHC_AHCT1G02 v.8		
Modifications:	Section 2: E	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74AHC_AHCT1G02 v. 8	20220111	Product data sheet	-	74AHC_AHCT1G02 v.7		
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Section 1 and Section 2 updated.</li> <li>Fig. 6SOT353-1 (TSSOP5) package outline drawing has changed.</li> <li>Section 8: Derating values for Ptot total power dissipation updated.</li> </ul>					
74AHC_AHCT1G02 v.7	20141106	Product data sheet	-	74AHC_AHCT1G02 v.6		
Modifications:	<u>Section 4</u> : table note added.					
74AHC_AHCT1G02 v.6	20070530	Product data sheet	-	74AHC_AHCT1G02 v.5		
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Package SOT353 changed to SOT353-1 in <u>Section 3</u> and <u>Section 12</u>.</li> <li>Quick reference data and Soldering sections removed.</li> </ul>					
74AHC_AHCT1G02 v.5	20020527	Product specification	-	74AHC_AHCT1G02 v.4		
74AHC_AHCT1G02 v.4	20020215	Product specification	-	74AHC_AHCT1G02 v.3		
74AHC_AHCT1G02 v.3	20010131	Product specification	-	74AHC_AHCT1G02 v.2		
74AHC_AHCT1G02 v.2	19990127	Product specification	-	74AHC_AHCT1G02_N v.1		
74AHC_AHCT1G02_N v.1	19981125	Preliminary specification	-	-		

### 2-input NOR gate

### 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.

- Please consult the most recently issued document before initiating or completing a design.
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2-input NOR gate

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