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74HC2G02; 74HCT2G02

Dual 2-input NOR gate

Rev. 5 — 27 September 2013

Product data sheet

1. General description

The 74HC2G02; 74HCT2G02 is a dual 2-input NOR gate. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

2. Features and benefits

- Wide supply voltage range from 2.0 V to 6.0 V
- Input levels:
 - ◆ For 74HC2G02: CMOS level
 - ◆ For 74HCT2G02: TTL level
- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- Multiple package options
- ESD protection:
 - ◆ HBM JESD22-A114E exceeds 2000 V
 - ♦ MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Ordering information

Table 1. Ordering information

Type number	Package						
	Temperature range	Name	Description	Version			
74HC2G02DP	-40 °C to +125 °C	TSSOP8	process, and the process, and the process, and the process, and the process of th				
74HCT2G02DP			body width 3 mm; lead length 0.5 mm				
74HC2G02DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads;	SOT765-1			
74HCT2G02DC			body width 2.3 mm				
74HC2G02GD	-40 °C to +125 °C	XSON8	place of the contained package, he reade,				
74HCT2G02GD			8 terminals; body $3 \times 2 \times 0.5 \text{ mm}$				



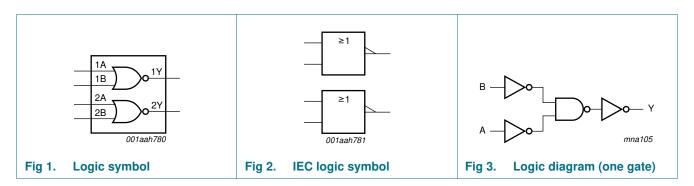
4. Marking

Table 2. Marking code

Type number	Marking code[1]
74HC2G02DP	H02
74HCT2G02DP	T02
74HC2G02DC	H02
74HCT2G02DC	T02
74HC2G02GD	H02
74HCT2G02GD	T02

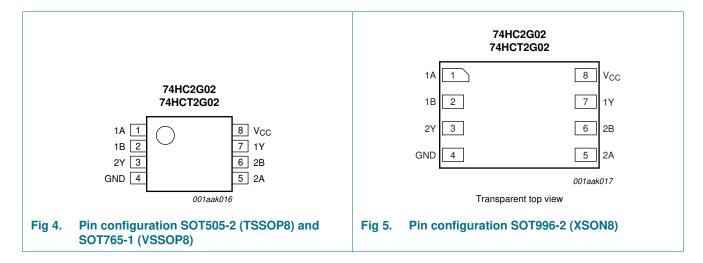
^[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
1A, 2A	1, 5	data input
1B, 2B	2, 6	data input
GND	4	ground (0 V)
1Y, 2Y	7, 3	data output
V _{CC}	8	supply voltage

7. Functional description

Table 4. Function table[1]

Input		Output
nA	nB	nY
L	L	Н
L	Н	L
Н	L	L
Н	Н	L

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

8. 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	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$	[1] -	±20	mA
I _{OK}	output clamping current	$V_O < -0.5 \; V \; \text{or} \; V_O > V_{CC} + 0.5 \; V$	[1] -	±20	mA
I _O	output current	$V_O = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	[1] -	25	mA
I _{CC}	supply current		[1] -	50	mA
I _{GND}	ground current		<u>[1]</u> –50	-	mA
T _{stg}	storage temperature		–65	+150	°C
P_D	dynamic power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[2] -	300	mW

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

^[2] For TSSOP8 package: above 55 °C the value of P_{tot} derates linearly with 2.5 mW/K. For VSSOP8 package: above 110 °C the value of P_{tot} derates linearly with 8 mW/K. For XSON8 package: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

9. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	mbol Parameter Conditions		74HC2G02		74HCT2G02			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
$\Delta t/\Delta V$	input transition rise	$V_{CC} = 2.0 \text{ V}$	-	-	625	-	-	-	ns/V
	and fall rate	$V_{CC} = 4.5 \text{ V}$	-	1.67	139	-	1.67	139	ns/V
		$V_{CC} = 6.0 \text{ V}$	-	-	83	-	-	-	ns/V

10. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C	to +125 °C	Unit
				Typ[1]	Max	Min	Max	
74HC2G0	2				ı	1		
V_{IH}	HIGH-level input	$V_{CC} = 2.0 \text{ V}$	1.5	1.2	-	1.5	-	V
	voltage	$V_{CC} = 4.5 \text{ V}$	3.15	2.4	-	3.15	-	V
		$V_{CC} = 6.0 \text{ V}$	4.2	3.2	-	4.2	-	V
V_{IL}	LOW-level input	$V_{CC} = 2.0 \text{ V}$	-	8.0	0.5	-	0.5	V
	voltage	$V_{CC} = 4.5 \text{ V}$	-	2.1	1.35	-	1.35	V
		$V_{CC} = 6.0 \text{ V}$	-	2.8	1.8	-	1.8	V
V_{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}						
		$I_{O} = -20 \mu A; V_{CC} = 2.0 V$	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
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.13	4.32	-	3.7	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.63	5.81	-	5.2	-	V
V_{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}						
	voltage	$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	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
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.33	-	0.4	V
		$I_O = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.33	-	0.4	V
l _l	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±1.0	-	±1.0	μΑ
I _{CC}	supply current	per input pin; $V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	10	-	20	μА
Cı	input capacitance		-	1.5	-	-	-	pF

Table 7. Static characteristics ...continued Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	–40 °C t	Unit	
			Min	Typ[1]	Max	Min	Max	
74HCT20	i02		'					
V_{IH}	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	1.6	-	2.0	-	V
V_{IL}	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	1.2	8.0	-	8.0	V
V_{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}						
	voltage	$I_O = -20 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.13	4.32	-	3.7	-	V
V_{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}						
	voltage	$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.33	-	0.4	V
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±1.0	-	±1.0	μА
I _{CC}	supply current	V_{I} = V_{CC} or GND; I_{O} = 0 A; V_{CC} = 5.5 V	-	-	10	-	20	μΑ
ΔI_{CC}	additional supply current	per input; $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V};$ $V_I = V_{CC} - 2.1 \text{ V};$ $I_O = 0 \text{ A}$	-	-	375	-	410	μΑ
Cı	input capacitance		-	1.5	-	-	-	рF

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

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 7.

Symbol	Parameter	Conditions		-40	°C to +85	5 °C	-40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	
74HC2G	02								
t _{pd}	propagation delay	nA and nB to nY; see Figure 6	[2]						
		V _{CC} = 2.0 V		-	26	95	-	110	ns
		$V_{CC} = 4.5 \text{ V}$		-	9	19	-	22	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	9	-	-	-	ns
		V _{CC} = 6.0 V		-	8	16	-	20	ns
t _t	transition time	see <u>Figure 6</u>	[3]						
		$V_{CC} = 2.0 \text{ V}$		-	19	95	-	125	ns
		V _{CC} = 4.5 V		-	7	19	-	25	ns
		$V_{CC} = 6.0 \text{ V}$		-	5	16	-	20	ns
C_{PD}	power dissipation capacitance	$V_I = GND$ to V_{CC}	[4]	-	10	-	-	-	pF

 Table 8.
 Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 7.

Symbol	Parameter	Conditions		-40 °C to +85 °C			–40 °C t	-40 °C to +125 °C		
				Min	Typ[1]	Max	Min	Max		
74HCT2	G02				'		'	'		
t _{pd}	propagation delay	nA and nB to nY; see Figure 6	[2]							
		$V_{CC} = 4.5 \text{ V}$		-	12	24	-	29	ns	
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	12	-	-	-	ns	
t _t	transition time	V _{CC} = 4.5 V; see Figure 6	[3]	-	6	19	-	22	ns	
C _{PD}	power dissipation capacitance	$V_I = GND \text{ to } V_{CC} - 1.5 \text{ V}$	[4]	-	10	-	-	-	pF	

- [1] All typical values are measured at $T_{amb} = 25$ °C.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL} .
- [3] t_t is the same as t_{TLH} and t_{THL} .
- [4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

f_i = input frequency in MHz;

fo = output frequency in MHz;

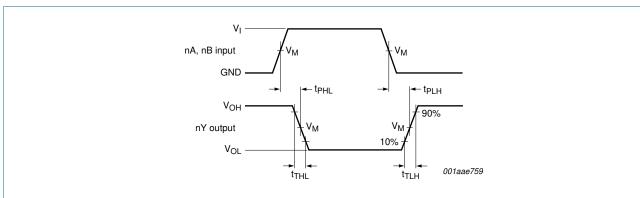
C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

12. Waveforms



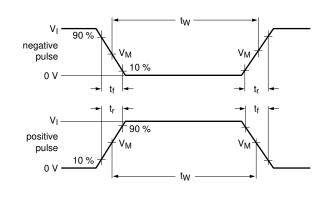
Measurement points are given in Table 9.

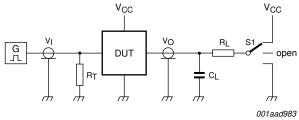
 $\ensuremath{V_{\text{OL}}}$ and $\ensuremath{V_{\text{OH}}}$ are typical output voltage levels that occur with the output load.

Fig 6. Propagation delay data input (nA, nB) to data output (nY) and transition time output (nY)

Table 9. Measurement points

Туре	Input	Output
	V _M	V _M
74HC2G02	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
74HCT2G02	1.3 V	1.3 V





Test data is given in Table 10.

Definitions for test circuit:

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

 C_L = Load capacitance including jig and probe capacitance.

R_L = Load resistance.

S1 = Test selection switch.

Fig 7. Load circuit for measuring switching times

Table 10. Test data

Туре	Input		Load		Load		S1 position
	V _I	t _r , t _f	C _L	R _L	t _{PHL} , t _{PLH}		
74HC2G02	GND to V _{CC}	≤ 6 ns	15 pF, 50 pF	1 kΩ	open		
74HCT2G02	GND to 3 V	≤ 6 ns	15 pF, 50 pF	1 kΩ	open		

13. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

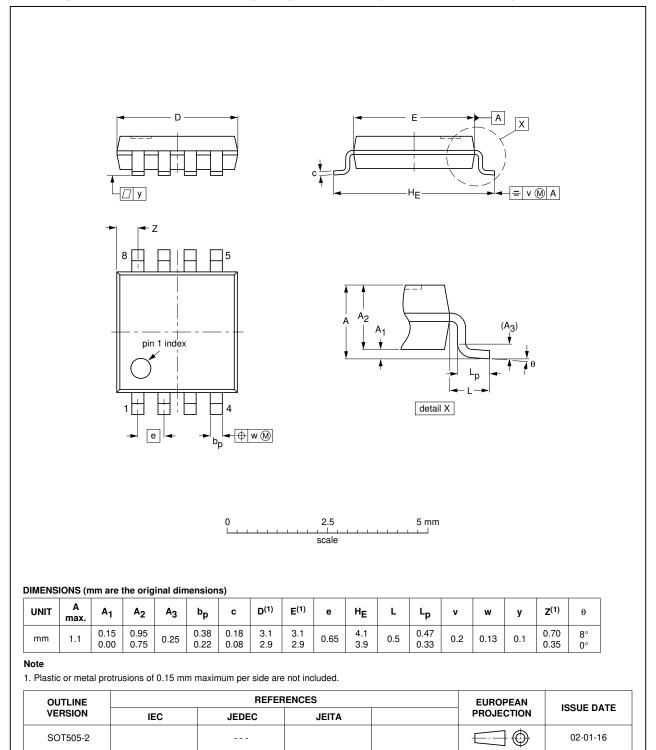


Fig 8. Package outline SOT505-2 (TSSOP8)

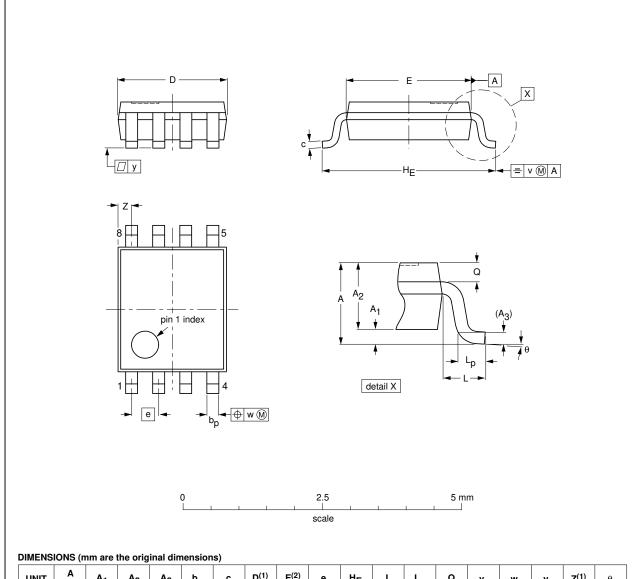
74HC_HCT2G02

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VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1



UNIT	A max.	A ₁	A ₂	А3	bp	С	D ⁽¹⁾	E ⁽²⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	1	0.15 0.00	0.85 0.60	0.12	0.27 0.17	0.23 0.08	2.1 1.9	2.4 2.2	0.5	3.2 3.0	0.4	0.40 0.15	0.21 0.19	0.2	0.13	0.1	0.4 0.1	8° 0°

Notes

Plastic or metal protrusions of 0.15 mm maximum per side are not included.
 Plastic or metal protrusions of 0.25 mm maximum per side are not included.

	OUTLINE		REFER	EUROPEAN	ISSUE DATE			
	VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
	SOT765-1		MO-187				02-06-07	
_			•		•			

Fig 9. Package outline SOT765-1 (VSSOP8)

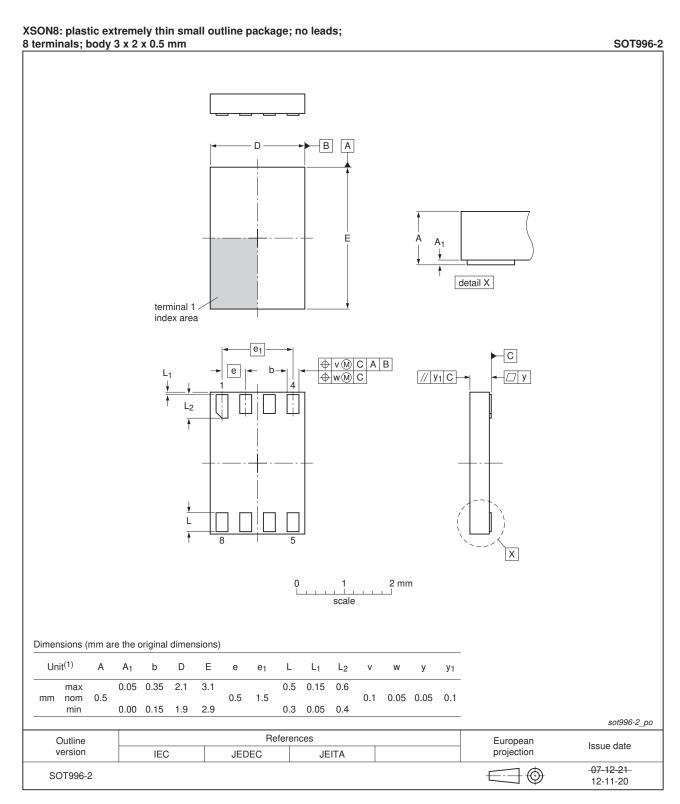


Fig 10. Package outline SOT996-2 (XSON8)

14. Abbreviations

Table 11. Abbreviations

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

15. Revision history

Table 12. Revision history

	•			
Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT2G02 v.5	20130927	Product data sheet	-	74HC_HCT2G02 v.4
Modifications:	 For type nu 	mbers 74HC2G02GD and 7	74HCT2G02GD XSON8	U has changed to XSON8.
74HC_HCT2G02 v.4	20090511	Product data sheet	-	74HC_HCT2G02 v.3
74HC_HCT2G02 v.3	20030514	Product data sheet	-	74HC_HCT2G02 v.2
74HC_HCT2G02 v.2	20030203	Product specification	-	74HC_HCT2G02 v.1
74HC_HCT2G02 v.1	20020710	Product specification	-	-

16. Legal information

16.1 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"
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