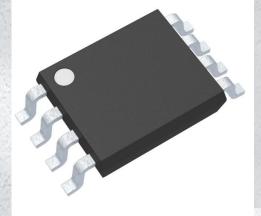


# 74HCT2G86DC,125 Datasheet

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DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description

r 74HCT2G86DC,125-DG r Nexperia USA Inc. r 74HCT2G86DC,125 IC GATE XOR 2CH 2-INP 8VSSOP XOR (Exclusive OR) IC 2 Channel 8-VSSOP

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# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
74HCT2G86DC,125	Nexperia USA Inc.
Series:	Product Status:
74HCT	Active
Logic Type:	Number of Circuits:
XOR (Exclusive OR)	2
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
4.5V ~ 5.5V	1 μΑ
Current - Output High, Low:	Input Logic Level - Low:
4mA, 4mA	0.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
2V	19ns @ 4.5V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
8-VSSOP	8-VFSOP (0.091", 2.30mm Width)
Base Product Number:	
74HCT2G86	

# **Environmental & Export classification**

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



# 1. General description

The 74HC2G86; 74HCT2G86 is a dual 2-input EXCLUSIVE-OR gate. Inputs also 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
- CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Input levels:
  - For 74HC2G86: CMOS level
  - For 74HCT2G86: 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. Ordering information

#### Table 1. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74HC2G86DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	<u>SOT505-2</u>						
74HC2G86DC 74HCT2G86DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	<u>SOT765-1</u>						

### 4. Marking

Table 2. Marking code								
Type number	Marking code[1]							
74HC2G86DP	H86							
74HC2G86DC	H86							
74HCT2G86DC	Т86							

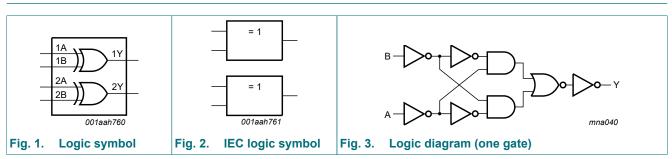
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# ne<mark>x</mark>peria

# 74HC2G86; 74HCT2G86

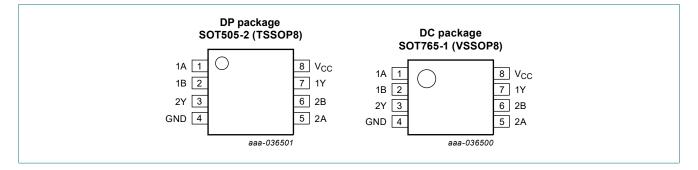
### Dual 2-input EXCLUSIVE-OR gate

# 5. Functional diagram



# 6. Pinning information

### 6.1. Pinning



### 6.2. 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 <sub>CC</sub>	8	supply voltage

# 7. Functional description

#### Table 4. Function table

H = HIGH voltage level; L = LOW voltage level.

Input	Output	
nA	nB	nY
L	L	L
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). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		Min	Max	Unit
V <sub>CC</sub>	supply voltage			-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	$V_{I}$ < -0.5 V or $V_{I}$ > $V_{CC}$ + 0.5 V	[1]	-	±20	mA
I <sub>ОК</sub>	output clamping current	$V_{\rm O}$ < -0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	[1]	-	±20	mA
I <sub>O</sub>	output current	$V_{O} = -0.5 V$ to ( $V_{CC} + 0.5 V$ )	[1]	-	25	mA
I <sub>CC</sub>	supply current		[1]	-	50	mA
I <sub>GND</sub>	ground current		[1]	-50	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>D</sub>	dynamic power dissipation	T <sub>amb</sub> = -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 SOT505-2 (TSSOP8) package: P<sub>tot</sub> derates linearly with 4.6 mW/K above 96 °C.

For SOT765-1 (VSSOP8) package: Ptot derates linearly with 4.9 mW/K above 99 °C.

# 9. Recommended operating conditions

#### Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	ditions 74HC2G86					74HCT2G86			
			Min	Тур	Max	Min	Тур	Max			
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V		
VI	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V		
Vo	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	input transition rise and	V <sub>CC</sub> = 2.0 V	-	-	625	-	-	-	ns/V		
	fall rate	V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V		
		V <sub>CC</sub> = 6.0 V	-	-	83	-	-	-	ns/V		

### **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 to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC2G	86	,								
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
İ	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V

# 74HC2G86; 74HCT2G86

### Dual 2-input EXCLUSIVE-OR gate

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Мах	Min	Мах	1
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 4.5 V	4.18	4.32	-	4.13	-	3.7	-	V
		I <sub>O</sub> = -5.2 mA; V <sub>CC</sub> = 6.0 V	5.68	5.81	-	5.63	-	5.2	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I <sub>O</sub> = 5.2 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
l <sub>l</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0$ V	-	-	±0.1	-	±1.0	-	±1.0	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	1.0	-	10	-	20	μA
CI	input capacitance		-	1.5	-	-	-	-	-	pF
74HCT2	G86									
V <sub>IH</sub>	HIGH-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -4.0 mA	4.18	4.32	-	4.13	-	3.7	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA	-	0.15	0.26	-	0.33	-	0.4	V
l <sub>l</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	±0.1	-	±1.0	-	±1.0	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.0	-	10	-	20	μA
ΔI <sub>CC</sub>	additional supply current	per input; V <sub>CC</sub> = 4.5 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> - 2.1 V; I <sub>O</sub> = 0 A	-	-	300	-	375	-	410	μA
CI	input capacitance		-	1.5	-	-	-	-	-	pF

#### **Dual 2-input EXCLUSIVE-OR gate**

# **11. Dynamic characteristics**

#### **Table 8. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit, see Fig. 5.

Symbol	Parameter	Conditions			25 °C		-40 °C	to +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Мах	Min	Max	Min	Max		
74HC2G	86	1					1			1	
t <sub>pd</sub>	propagation	nA, nB to nY; see Fig. 4	[1]								
	delay	V <sub>CC</sub> = 2.0 V		-	34	120	-	150	-	180	ns
		V <sub>CC</sub> = 4.5 V		-	11	20	-	25	-	36	ns
		V <sub>CC</sub> = 6.0 V		-	9.0	17	-	21	-	30	ns
t <sub>t</sub>	transition	nY; see <u>Fig. 4</u>	[2]								
	time	V <sub>CC</sub> = 2.0 V		-	18	75	-	95	-	110	ns
		V <sub>CC</sub> = 4.5 V		-	6	15	-	19	-	22	ns
		V <sub>CC</sub> = 6.0 V			5	13	-	16	-	20	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}; f_i = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	[3]	-	10	-	-	-	-	-	pF
74HCT2	G86	1			1		1				1
t <sub>pd</sub>	propagation	nA, nB to nY; see Fig. 4	[1]								
	delay	V <sub>CC</sub> = 4.5 V		-	11	19	-	23	-	48	ns
t <sub>t</sub>	transition	nY; see <u>Fig. 4</u>	[2]								
	time	V <sub>CC</sub> = 4.5 V		-	6	15	-	19	-	22	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; $C_L$ = 50 pF; f <sub>i</sub> = 1 MHz; $V_I$ = GND to V <sub>CC</sub>	[3]	-	9	-	-	-	-	-	pF

[1]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .

[2]  $t_t$  is the same as  $t_{TLH}$  and  $t_{THL}$ . [3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).

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

f<sub>i</sub> = input frequency in MHz;

 $f_o$  = output frequency in MHz;

 $C_L$  = output load capacitance in pF;

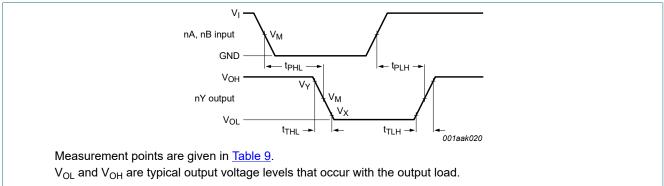
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

### Dual 2-input EXCLUSIVE-OR gate

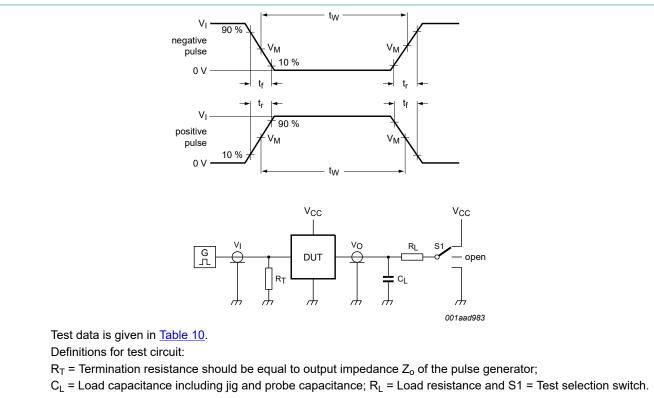
### **11.1. Waveforms and test circuit**



#### Fig. 4. Propagation delay data input (nA, nB) to data output (nY) and transition time output (nY)

#### Table 9. Measurement points

Туре	Input	Output						
	V <sub>M</sub>	V <sub>M</sub>	V <sub>Y</sub>					
74HC2G86	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	0.1 × V <sub>CC</sub>	0.9 × V <sub>CC</sub>				
74HCT2G86	1.3 V	1.3 V	0.1 × V <sub>CC</sub>	$0.9 \times V_{CC}$				



#### Fig. 5. Test circuit for measuring switching times

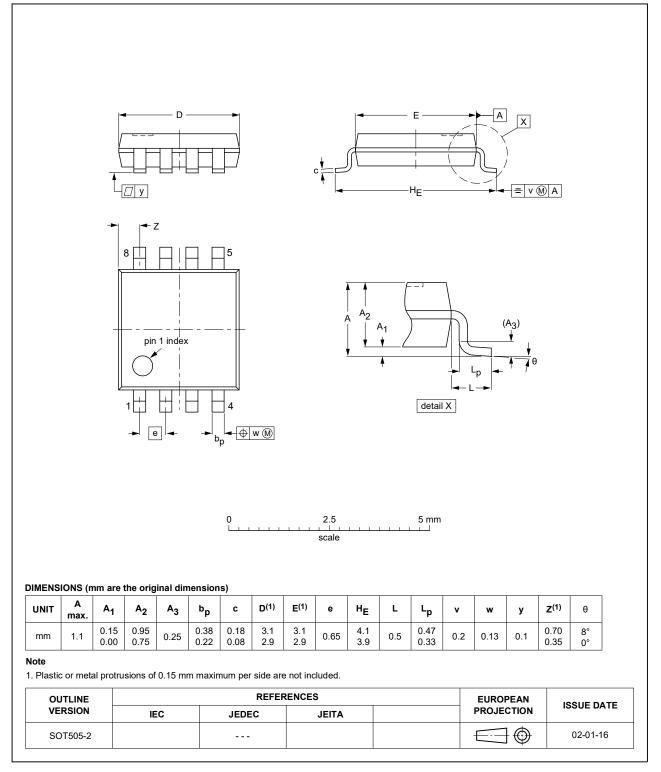
#### Table 10. Test data

Туре	Input		Load		S1 position	
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PHL</sub> , t <sub>PLH</sub>	
74HC2G86	GND to V <sub>CC</sub>	≤ 6 ns	50 pF	1 kΩ	open	
74HCT2G86	GND to 3 V	≤ 6 ns	50 pF	1 kΩ	open	

Dual 2-input EXCLUSIVE-OR gate

### 12. Package outline



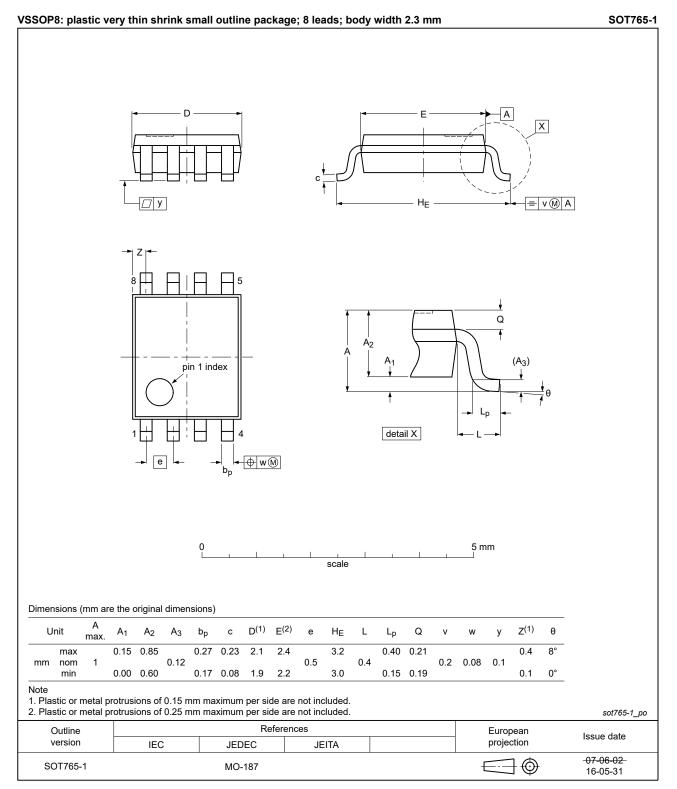


#### Fig. 6. Package outline SOT505-2 (TSSOP8)

74HC\_HCT2G86

# 74HC2G86; 74HCT2G86

### **Dual 2-input EXCLUSIVE-OR gate**





# 13. 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

# 14. Revision history

### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT2G86 v.6	20231128	Product data sheet	-	74HC_HCT2G86 v.5
Modifications:	• <u>Section 8</u> : F	odated. ESD specification updated a P <sub>tot</sub> and derating values for C <sub>PD</sub> conditions for 74HCT2	P <sub>tot</sub> total power di	ssipation updated.
74HC_HCT2G86 v.5	20181218	Product data sheet	-	74HC_HCT2G86 v.4
Modifications:	guidelines c Legal texts	of this data sheet has beer of Nexperia. have been adapted to the i ers 74HCT2G86DP, 74HC2	new company nan	ne where appropriate.
74HC_HCT2G86 v.4	20140314	Product data sheet	-	74HC_HCT2G86 v.3
Modifications:	For type null XSON8.	mbers 74HC2G86GD and	74HCT2G86GD X	SON8U has changed to
74HC_HCT2G86 v.3	20090507	Product data sheet	-	74HC_HCT2G86 v.2
74HC_HCT2G86 v.2	20030728	Product specification	-	74HC_HCT2G86 v.1
74HC_HCT2G86 v.1	20020717	Product specification	-	-

#### **Dual 2-input EXCLUSIVE-OR 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.

[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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# 74HC2G86; 74HCT2G86

### Dual 2-input EXCLUSIVE-OR gate

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