# 74HC2G86; 74HCT2G86

# Dual 2-input EXCLUSIVE-OR gate Rev. 4 — 14 March 2014

Product data sheet

#### 1. **General description**

The 74HC2G86; 74HCT2G86 is a dual 2-input EXCLUSIVE-OR gate. Inputs include clamp diodes that enable the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

#### **Features and benefits** 2.

- Wide supply voltage range from 2.0 V to 6.0 V
- Input levels:
  - ◆ For 74HC2G86: CMOS level
  - ◆ For 74HCT2G86: 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

# **Ordering information**

Table 1. **Ordering information** 

Type number	Package	Package											
	Temperature range	Name	Description	Version									
74HC2G86DP	–40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads;	SOT505-2									
74HCT2G86DP			body width 3 mm; lead length 0.5 mm										
74HC2G86DC	–40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads;	SOT765-1									
74HCT2G86DC			body width 2.3 mm										
74HC2G86GD	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads;	SOT996-2									
74HCT2G86GD			8 terminals; body $3 \times 2 \times 0.5$ mm										



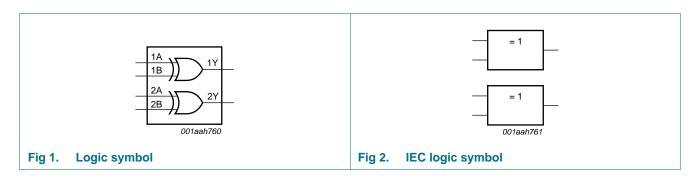
## 4. Marking

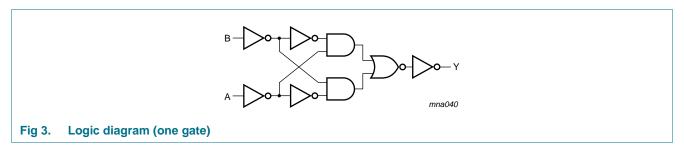
#### Table 2. Marking code

Type number	Marking code[1]
74HC2G86DP	H86
74HCT2G86DP	T86
74HC2G86DC	H86
74HCT2G86DC	T86
74HC2G86GD	H86
74HCT2G86GD	T86

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

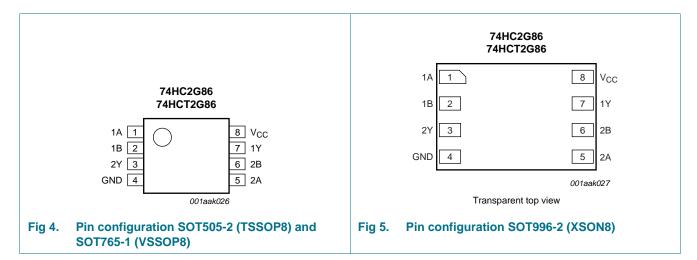
# 5. Functional diagram





# 6. Pinning information

## 6.1 Pinning



## 6.2 Pin description

Table 3. Pin description

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[1]

Input								
nA	nB	nY						
L	L	L						
L	Н	Н						
Н	L	Н						
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 <sub>CC</sub>	supply voltage			-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	<u>[1]</u>	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$	<u>[1]</u>	-	±20	mA
Io	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	<u>[1]</u>	-	25	mA
I <sub>CC</sub>	supply current		<u>[1]</u>	-	50	mA
I <sub>GND</sub>	ground current		<u>[1]</u>	-50	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>D</sub>	dynamic power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$	[2]	-	300	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	7	4HC2G8	6	74	86	Unit			
				Min Typ		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	V <sub>CC</sub> = 2.0 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		25 °C			to +85 °C	-40 °C t	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
74HC2G	86									
$V_{IH}$	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

<sup>[2]</sup> For TSSOP8 package: above 55 °C the value of P<sub>tot</sub> derates linearly with 2.5 mW/K. For VSSOP8 package: above 110 °C the value of P<sub>tot</sub> derates linearly with 8 mW/K. For XSON8 package: above 118 °C the value of P<sub>tot</sub> derates linearly with 7.8 mW/K.

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

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C t	:o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	٧
	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	٧
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	٧
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_O = -20 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	٧
		$I_{O} = -20 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	4.4	-	٧
		$I_{O} = -20 \mu A; V_{CC} = 6.0 V$	5.9	6.0	-	5.9	-	5.9	-	٧
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.18	4.32	-	4.13	-	3.7	-	٧
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.68	5.81	-	5.63	-	5.2	-	٧
$V_{OL}$	LOW-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_{O} = 20 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 \text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		$I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.26	-	0.33	-	0.4	V
l <sub>l</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	1.0	-	10	-	20	μΑ
Cı	input capacitance		-	1.5	-	-	-	-	-	pF
74HCT2	G86						I		1	
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
$V_{IL}$	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ 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	-	٧
		$I_{O} = -4.0 \text{ mA}$	4.18	4.32	-	4.13	-	3.7	-	٧
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 20 μA	-	0	0.1	-	0.1	-	0.1	٧
		I <sub>O</sub> = 4.0 mA	-	0.15	0.26	-	0.33	-	0.4	٧
lı	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
Icc	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	10	-	20	μΑ
Δl <sub>CC</sub>	additional supply current	per input; $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V};$ $V_{I} = V_{CC} - 2.1 \text{ V};$ $I_{O} = 0 \text{ A}$	-	-	300	-	375	-	410	μА
Cı	input capacitance		-	1.5	-	-	-	-	-	pF

# 11. Dynamic characteristics

## Table 8. Dynamic characteristics

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

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C t	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
74HC2G	86									
t <sub>pd</sub>	propagation	nA, nB to nY; see Figure 6 [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 Figure 6 [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; $C_L = 50 \text{ pF}$ ; $f_i = 1 \text{ MHz}$ ; $V_I = \text{GND to } V_{CC}$	-	10	-	-	-	-	-	pF
74HCT2	G86		1		1	-	-	-	-	-
t <sub>pd</sub>	propagation	nA, nB to nY; see Figure 6 [1]								
	delay	V <sub>CC</sub> = 4.5 V	-	11	19	-	23	-	48	ns
t <sub>t</sub>	transition	nY; see Figure 6 [2]								
	time	V <sub>CC</sub> = 4.5 V	-	6	15	-	19	-	22	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}$ ; $f_i = 1 \text{ MHz}$ ; $V_I = \text{GND to } V_{CC}$	-	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  $\mu W$ ).

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

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

 $f_0$  = output frequency in MHz;

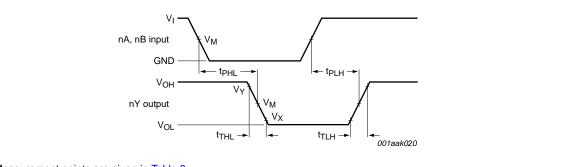
C<sub>L</sub> = output load capacitance in pF;

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

N = number of inputs switching;

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

## 12. Waveforms



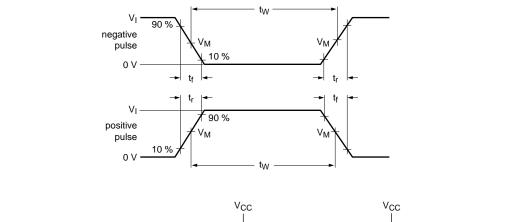
Measurement points are given in Table 9.

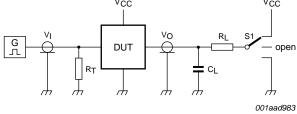
 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical output voltage levels that occur with the output load.

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 <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>
74HC2G86	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>
74HCT2G86	1.3 V	1.3 V	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>





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.

 $R_1$  = Load resistance.

S1 = Test selection switch.

Fig 7. Test circuit for measuring switching times

Table 10. Test data

Туре	Input I		Load	Load				
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	C <sub>L</sub>	R <sub>L</sub>	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			

## 13. Package outline

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

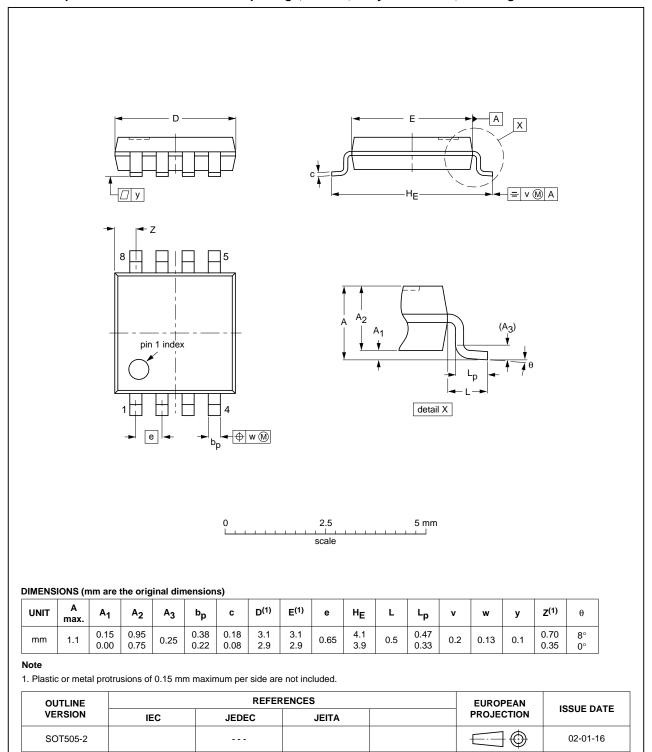


Fig 8. Package outline SOT505-2 (TSSOP8)

74HC\_HCT2G86

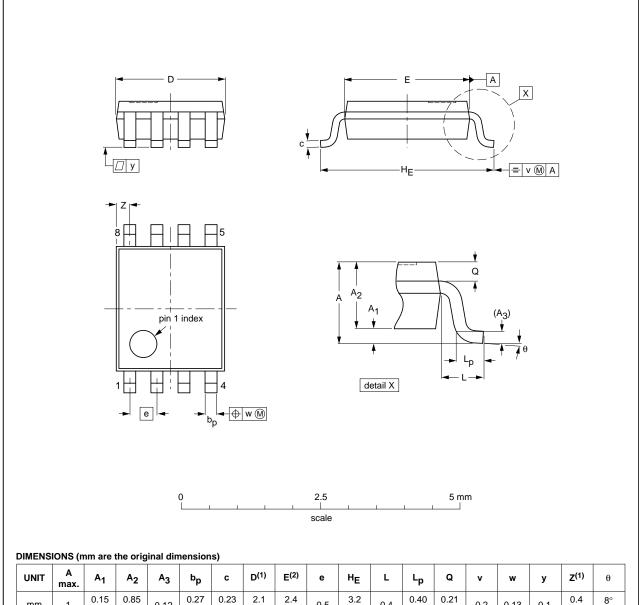
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## VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1



	(					-,												
UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	А3	bp	С	D <sup>(1)</sup>	E <sup>(2)</sup>	е	HE	L	Lp	Q	v	w	у	Z <sup>(1)</sup>	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°

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

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

Package outline SOT765-1 (VSSOP8) Fig 9.

74HC\_HCT2G86

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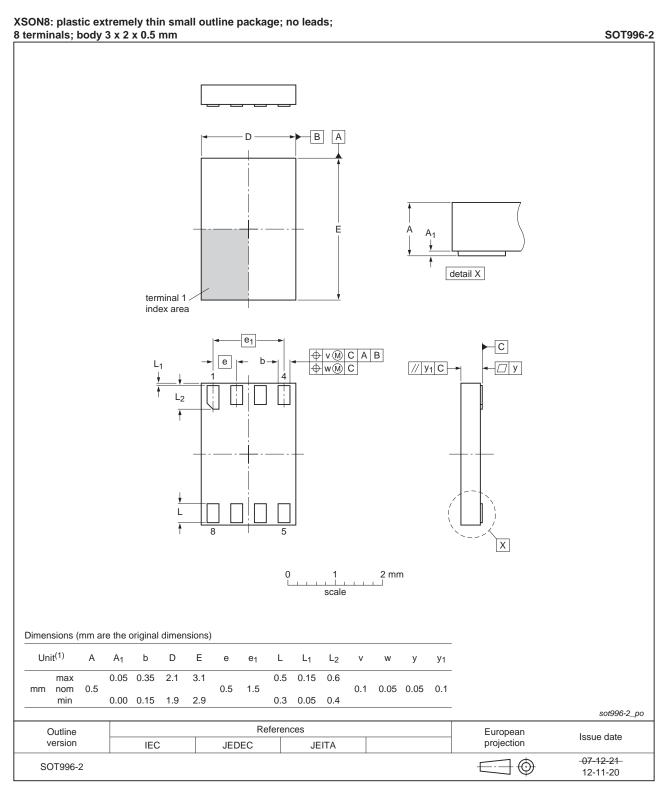


Fig 10. Package outline SOT996-2 (XSON8)

74HC\_HCT2G86

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## 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_HCT2G86 v.4	20140314	Product data sheet	-	74HC_HCT2G86 v.3
Modifications:	For type numbers 74HC2G86GD and 74HCT2G86GD XSON8U has changed to XSON8.			
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	-	-

## 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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# 74HC2G86; 74HCT2G86

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## 17. Contact information

For more information, please visit: http://www.nxp.com

For sales office addresses, please send an email to: salesaddresses@nxp.com

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