NXP 74HC_HCT2G86 Electronic component datasheet

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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 VCC.

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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_{CC} .

2. Features and benefits

- 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

3. Ordering information

Ordering information

Table 1

Type number	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	ON8 plastic extremely thin small outline package; no leads;								
74HCT2G86GD			8 terminals; body $3 \times 2 \times 0.5$ mm								





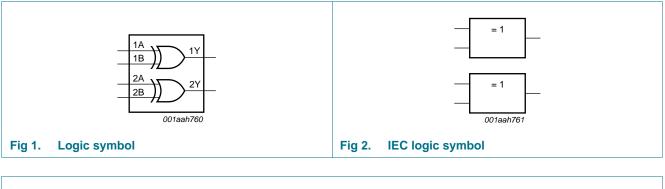
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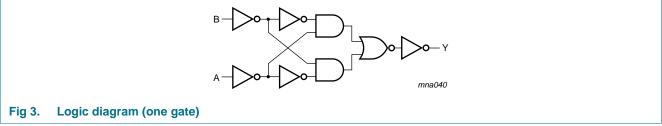
4. Marking

Type number	Marking code ^[1]
74HC2G86DP	H86
74HCT2G86DP	Т86
74HC2G86DC	H86
74HCT2G86DC	Т86
74HC2G86GD	H86
74HCT2G86GD	Т86

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

5. Functional diagram

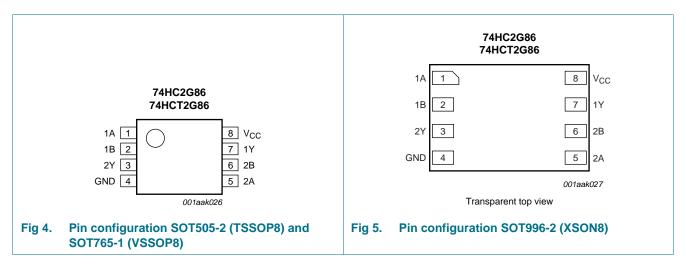




Dual 2-input EXCLUSIVE-OR gate

6. Pinning information

6.1 Pinning



6.2 Pin description

Fable 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

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

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

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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	$V_{I} < -0.5$ V or $V_{I} > V_{CC}$ + 0.5 V	<u>[1]</u>	-	±20	mA
l _{ок}	output clamping current	V_{O} < -0.5 V or V_{O} > V_{CC} + 0.5 V	<u>[1]</u>	-	±20	mA
lo	output current	$V_{O} = -0.5 \text{ V to} (V_{CC} + 0.5 \text{ V})$	<u>[1]</u>	-	25	mA
I _{CC}	supply current		[1]	-	50	mA
I _{GND}	ground current		[1]	-50	-	mA
T _{stg}	storage temperature			-65	+150	°C
PD	dynamic power dissipation	$T_{amb} = -40 \ ^{\circ}C \ to +125 \ ^{\circ}C$	[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	Parameter	Conditions	7	74HC2G86			74HCT2G86		
			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
Δt/ΔV	input transition rise	$V_{CC} = 2.0 V$	-	-	625	-	-	-	ns/V
	and fall rate	V _{CC} = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		$V_{CC} = 6.0 V$	-	-	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 _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
i	input voltage	V _{CC} = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V _{CC} = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V

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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 to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
VIL	LOW-level	V _{CC} = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V _{CC} = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V _{он}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_0 = -20 \ \mu A; V_{CC} = 2.0 \ V$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_0 = -20 \ \mu A; V_{CC} = 4.5 \ V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_0 = -20 \ \mu A; \ V_{CC} = 6.0 \ V$	5.9	6.0	-	5.9	-	5.9	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	4.18	4.32	-	4.13	-	3.7	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.68	5.81	-	5.63	-	5.2	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_0 = 20 \ \mu A; \ V_{CC} = 2.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 20 \ \mu A; V_{CC} = 4.5 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_{O} = 20 \ \mu A; V_{CC} = 6.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		I_{O} = 4.0 mA; V_{CC} = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I _O = 5.2 mA; V _{CC} = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
1	input leakage current	$V_I = V_{CC} \text{ or GND};$ $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μA
сс	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	1.0	-	10	-	20	μA
Cı	input capacitance		-	1.5	-	-	-	-	-	pF
74HCT2	G86							1		
V _{IH}	HIGH-level input voltage	V_{CC} = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	$V_{CC} = 4.5 V \text{ to } 5.5 V$	-	1.2	0.8	-	0.8	-	0.8	V
V _{он}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -4.0 mA	4.18	4.32	-	4.13	-	3.7	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	l _O = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		l _O = 4.0 mA	-	0.15	0.26	-	0.33	-	0.4	V
1	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	±0.1	-	±1.0	-	±1.0	μA
СС	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.0	-	10	-	20	μA
∆l _{CC}	additional supply current	per input; $V_{CC} = 4.5 V \text{ to } 5.5 V;$ $V_I = V_{CC} - 2.1 V; I_O = 0 A$	-	-	300	-	375	-	410	μΑ
Cı	input capacitance	-	-	1.5	-	-	-	-	-	pF

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

 $\mathsf{P}_{\mathsf{D}} = \mathsf{C}_{\mathsf{P}\mathsf{D}} \times \mathsf{V}_{\mathsf{C}\mathsf{C}}^2 \times \mathsf{f}_i \times \mathsf{N} + \Sigma(\mathsf{C}_{\mathsf{L}} \times \mathsf{V}_{\mathsf{C}\mathsf{C}}^2 \times \mathsf{f}_o) \text{ where:}$

 f_i = input frequency in MHz;

 $f_o = output frequency in MHz;$

 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

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12. Waveforms

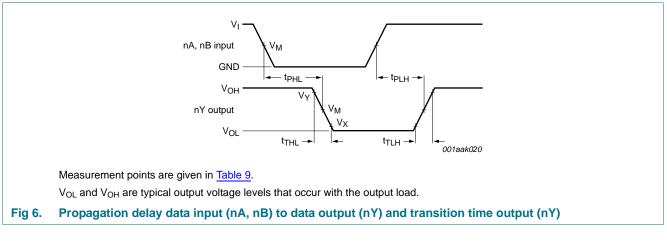


Table 9.Measurement points

Туре	Input	Output						
	V _M	V _M	V _X	V _Y				
74HC2G86	0.5V _{CC}	0.5V _{CC}	0.1V _{CC}	0.9V _{CC}				
74HCT2G86	1.3 V	1.3 V	0.1V _{CC}	0.9V _{CC}				

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74HC2G86; 74HCT2G86

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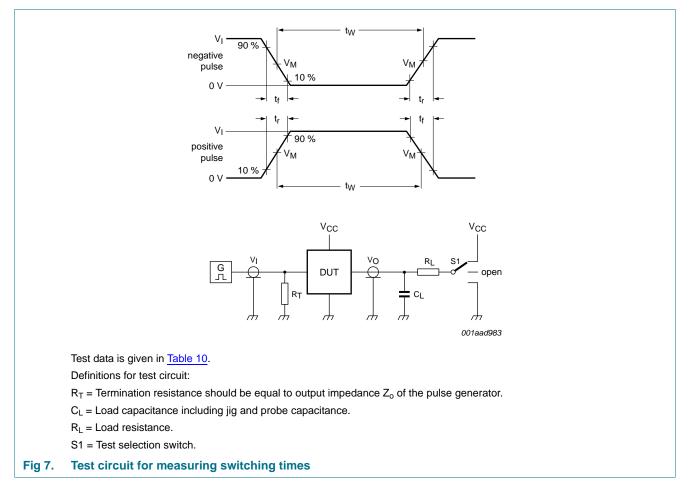


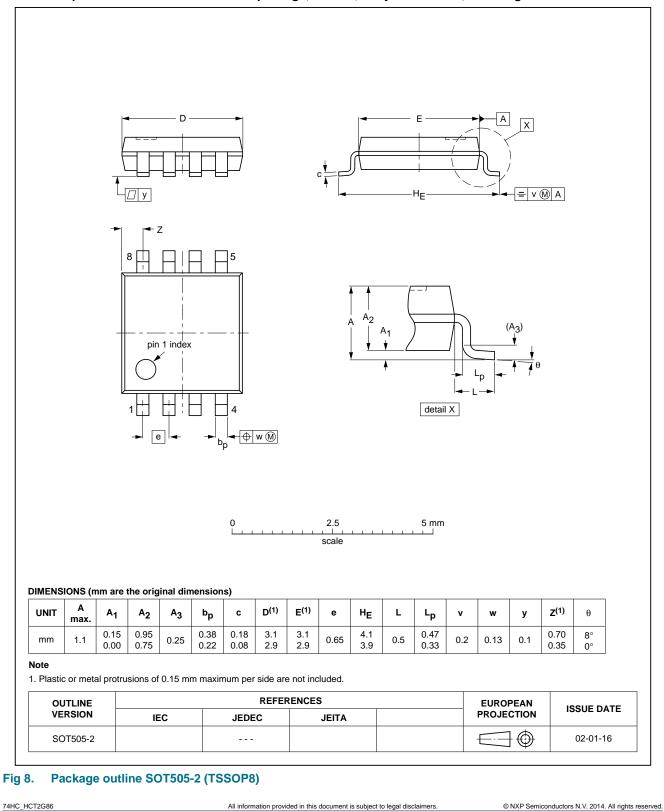
Table 10. Test data

Туре	Input		Load		S1 position
	VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}
74HC2G86	GND to V _{CC}	≤ 6 ns	50 pF	1 kΩ	open
74HCT2G86	GND to 3 V	≤ 6 ns	50 pF	1 kΩ	open

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13. Package outline



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

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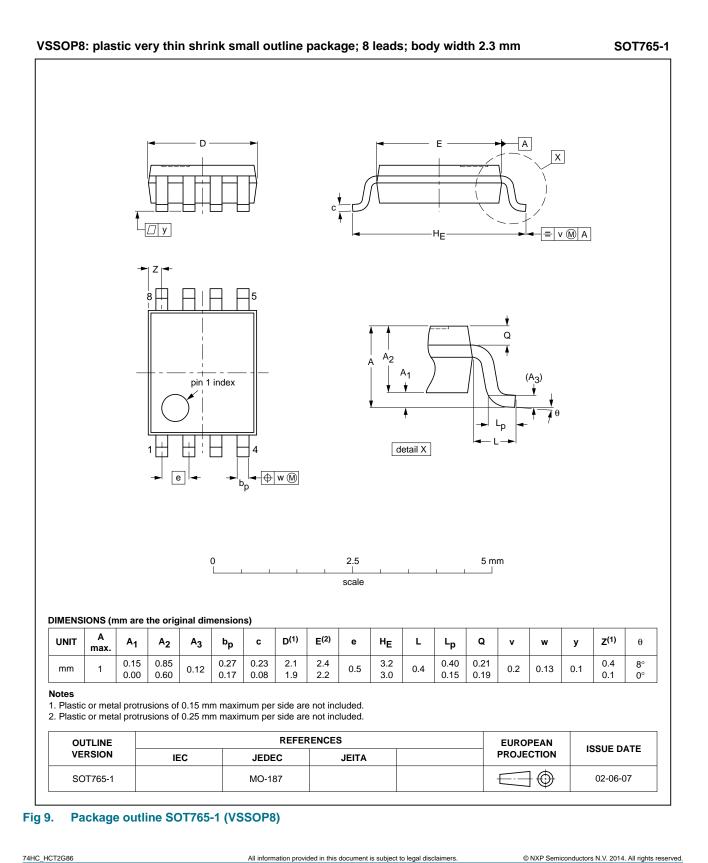
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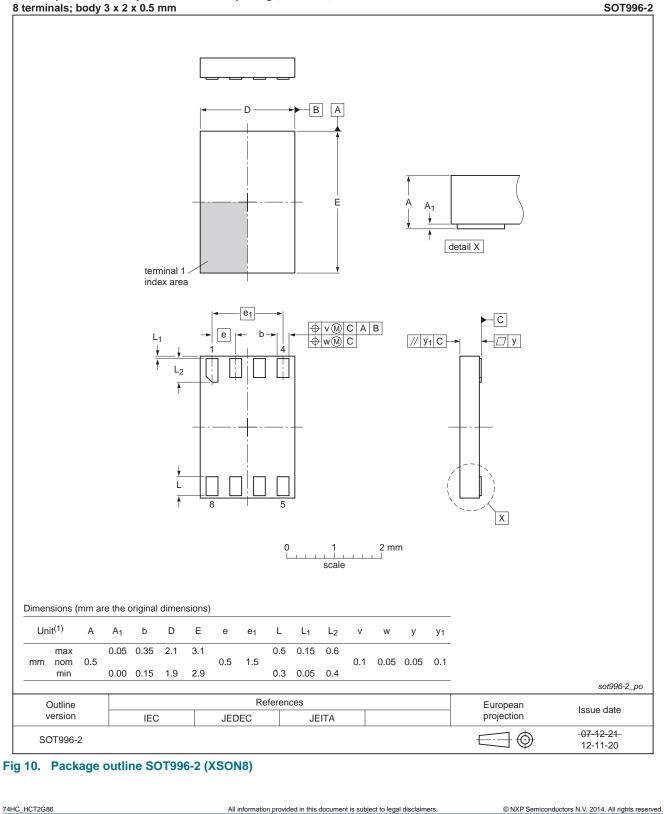
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74HC2G86; 74HCT2G86

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XSON8: plastic extremely thin small outline package; no leads; 8 terminals; body 3 x 2 x 0.5 mm

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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	-	-

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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.

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[2] The term 'short data sheet' is explained in section "Definitions".

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Date of release: 14 March 2014 Document identifier: 74HC_HCT2G86