74HC2G04-Q100; 74HCT2G04-Q100 Dual inverter

Product data sheet

General description 1

The 74HC2G04-Q100; 74HCT2G04-Q100 is a dual inverter. Inputs include clamp diodes that enable the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Wide supply voltage range from 2.0 V to 6.0 V
- Input levels:
 - For 74HC2G04-Q100: CMOS level
 - For 74HCT2G04-Q100: TTL level
- · Complies with JEDEC standard no. 7A
- High noise immunity
- ESD protection:
 - MIL-STD-883, method 3015 exceeds 2000 V
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)
- Low power dissipation
- Balanced propagation delays
- · Multiple package options

Ordering information

Table 1. Ordering information

Type number	Package							
	Temperature range	Name	Description	Version				
74HC2G04GW-Q100	-40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363				
74HCT2G04GW-Q100								
74HC2G04GV-Q100	-40 °C to +125 °C	SC-74	plastic surface-mounted package (TSOP6);	SOT457				
74HCT2G04GV-Q100			6 leads					

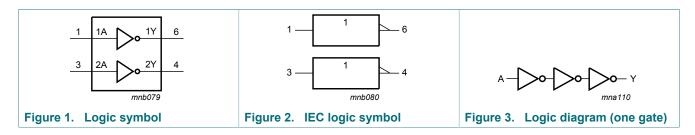


4 Marking

Table 2. Marking

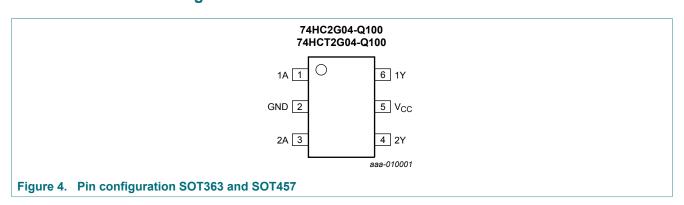
Type number	Marking code
74HC2G04GW-Q100	H4
74HCT2G04GW-Q100	T4
74HC2G04GV-Q100	H04
74HCT2G04GV-Q100	T04

5 Functional diagram



6 Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

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

74HC_HCT2G04_Q100

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Functional description

Table 4. Function table

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

Input	Output
nA	nY
L	Н
Н	L

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	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
Io	output current	$V_{\rm O} = -0.5 \text{V} \text{ to } V_{\rm CC} + 0.5 \text{V}$ [1]	-	±25	mA
I _{CC}	supply current	[1]	-	+50	mA
I _{GND}	ground current	[1]	-	-50	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	[2]	-	250	mW

The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed. For SC-88 and SC-74 packages: above 87.5 $^{\circ}$ C the value of P_{tot} derates linearly with 4.0 mW/K.

Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74HC2G04-Q100			74HCT2G04-Q100			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
Δt/ΔV	input transition rise and	V _{CC} = 2.0 V	-	-	625	-	-	-	ns/V
fall rate	fall rate	V _{CC} = 4.5 V	-	-	139	-	-	139	ns/V
		V _{CC} = 6.0 V	-	-	83	-	-	-	ns/V

74HC_HCT2G04_Q100

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10 Static characteristics

Table 7. Static characteristics for 74HC2G04-Q100

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = 2	25 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 2.0 V	1.5	1.2	-	V
		V _{CC} = 4.5 V	3.15	2.4	-	V
		V _{CC} = 6.0 V	4.2	3.2	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.0 V	-	0.8	-	V
		V _{CC} = 4.5 V	-	2.1	1.35	V
		V _{CC} = 6.0 V	-	2.8	1.8	V
V _{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}				,
	voltage	I _O = -20 μA; V _{CC} = 2.0 V	1.9	2.0	-	V
		I _O = -20 μA; V _{CC} = 4.5 V	4.4	4.5	-	V
		I _O = -20 μA; V _{CC} = 6.0 V	5.9	6.0	-	V
		I_{O} = -4.0 mA; V_{CC} = 4.5 V	4.18	4.32	-	V
		I _O = -5.2 mA; V _{CC} = 6.0 V	5.68	5.81	-	V
V _{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I _O = 20 μA; V _{CC} = 2.0 V	-	0	0.1	V
		I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	V
		I_{O} = 20 μ A; V_{CC} = 6.0 V	-	0	0.1	V
		I _O = 4.0 mA; V _{CC} = 4.5 V	-	0.15	0.26	V
		I _O = 5.2 mA; V _{CC} = 6.0 V	-	0.16	0.26	V
I _I	input leakage current	V_I = GND or V_{CC} ; V_{CC} = 6.0 V	-	-	±0.1	μΑ
I _{CC}	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 6.0 V	-	-	1.0	μΑ
Cı	input capacitance		-	1.5	-	pF

Dual inverter

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +85 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 2.0 V	1.5	-	-	V
		V _{CC} = 4.5 V	3.15	-		V
		V _{CC} = 6.0 V	4.2	-	-	V
V_{IL}	LOW-level input voltage	V _{CC} = 2.0 V	-	-	0.5	V
		V _{CC} = 4.5 V	-	-	1.35	V
		V _{CC} = 6.0 V	-	-	1.8	V
V_{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I_{O} = -20 μ A; V_{CC} = 2.0 V	1.9	-	-	V
		I_{O} = -20 μ A; V_{CC} = 4.5 V	4.4	-	0.5 1.35 1.8 	V
		I_{O} = -20 μ A; V_{CC} = 6.0 V	5.9	-		V
		I_{O} = -4.0 mA; V_{CC} = 4.5 V	4.13	-	-	V
		$I_{\rm O}$ = -5.2 mA; $V_{\rm CC}$ = 6.0 V	5.63	-	-	V
V_{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I_{O} = 20 μ A; V_{CC} = 2.0 V	-	-	0.1	V
		I_{O} = 20 μ A; V_{CC} = 4.5 V	-	-	0.1	V
		$I_{O} = 20 \mu A; V_{CC} = 6.0 V$	-	-	0.1	V
		I_{O} = 4.0 mA; V_{CC} = 4.5 V	-	-	0.33	V
		I_{O} = 5.2 mA; V_{CC} = 6.0 V	-	-	0.33	V
l _l	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 6.0 \text{ V}$	-	-	±1.0	μA
I _{CC}	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 6.0 V	-	-	10.0	μΑ

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +125 °C					
$V_{IH} \qquad \begin{array}{c} \text{HIGH-level input voltage} \\ \hline V_{CC} = 2.0 \text{ V} \\ \hline V_{CC} = 4.5 \text{ V} \\ \hline V_{CC} = 6.0 \text{ V} \\ \hline \end{array}$ $V_{IL} \qquad \begin{array}{c} \text{LOW-level input voltage} \\ \hline V_{CC} = 2.0 \text{ V} \\ \hline V_{CC} = 4.5 \text{ V} \\ \hline V_{CC} = 6.0 \text{ V} \\ \hline \end{array}$	V _{CC} = 2.0 V	1.5	-	-	V	
	, as a large	V _{CC} = 4.5 V	3.15	-	-	V
		V _{CC} = 6.0 V	4.2	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.0 V	-	-	-	V
		V _{CC} = 4.5 V	-	-		V
		V _{CC} = 6.0 V	-	-	1.8	V
V _{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I _O = -20 μA; V _{CC} = 2.0 V	1.9	-	-	V
		I _O = -20 μA; V _{CC} = 4.5 V	4.4	-	-	V
		I _O = -20 μA; V _{CC} = 6.0 V	5.9	-	-	V
		I_{O} = -4.0 mA; V_{CC} = 4.5 V	3.7	-	-	V
		I_{O} = -5.2 mA; V_{CC} = 6.0 V	5.2	-	-	V
V_{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I _O = 20 μA; V _{CC} = 2.0 V	-	-	0.1	V
		I_{O} = 20 μ A; V_{CC} = 4.5 V	-	-	0.1	V
		I _O = 20 μA; V _{CC} = 6.0 V	-	-	0.1	V
		I_{O} = 4.0 mA; V_{CC} = 4.5 V	-	-	0.4	V
		I_{O} = 5.2 mA; V_{CC} = 6.0 V	-	-	0.4	V
I _I	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 6.0 \text{ V}$	-	-	±1.0	μΑ
I _{CC}	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 6.0 V	-	-	20.0	μΑ

Table 8. Static characteristics for 74HCT2G04-Q100

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = 2	5 °C					
V_{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	1.6	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	1.2	0.8	V
V _{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}		,		
	voltage	I_{O} = -20 μ A; V_{CC} = 4.5 V	4.4	4.5	-	V
		I_{O} = -4.0 mA; V_{CC} = 4.5 V	4.18	4.32	-	V
V_{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	V
		I _O = 4.0 mA; V _{CC} = 4.5 V	-	0.15	0.26	V
I _I	input leakage current	V_I = GND or V_{CC} ; V_{CC} = 5.5 V	-	-	±0.1	μΑ
I _{CC}	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 5.5 V	-	-	1.0	μA

74HC_HCT2G04_Q100

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
ΔI _{CC}	additional supply current	$V_I = V_{CC} - 2.1 \text{ V;} V_{CC} = 4.5 \text{ V to } 5.5 \text{ V;}$ $I_O = 0 \text{ A}$	-	-	300	μΑ
Cı	input capacitance		-	1.5	-	pF
T _{amb} = -4	40 °C to +85 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	-	-	V
V_{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	-	0.8	V
V_{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I _O = -20 μA; V _{CC} = 4.5 V	4.4	-	-	V
		I_{O} = -4.0 mA; V_{CC} = 4.5 V	4.13	-	-	V
V_{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I _O = 20 μA; V _{CC} = 4.5 V	-	-	0.1	V
		I_{O} = 4.0 mA; V_{CC} = 4.5 V	-	-	0.33	V
I _I	input leakage current	$V_I = GND \text{ or } V_{CC}; V_{CC} = 5.5 \text{ V}$	-	-	±1.0	μA
I _{CC}	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 5.5 V	-	-	10.0	μA
ΔI _{CC}	additional supply current	$V_I = V_{CC} - 2.1 \text{ V;} V_{CC} = 4.5 \text{ V to } 5.5 \text{ V;} $ $I_O = 0 \text{ A}$	-	-	375	μA
T _{amb} = -4	40 °C to +125 °C		'		'	
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	-	0.8	V
V _{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I _O = -20 μA; V _{CC} = 4.5 V	4.4	-	-	V
		I_{O} = -4.0 mA; V_{CC} = 4.5 V	3.7	-	-	V
V_{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I _O = 20 μA; V _{CC} = 4.5 V	-	-	0.1	V
		I_{O} = 4.0 mA; V_{CC} = 4.5 V	-	-	0.4	V
lı	input leakage current	V_I = GND or V_{CC} ; V_{CC} = 5.5 V	-	-	±1.0	μΑ
I _{CC}	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 5.5 V	-	-	20.0	μA
Δl _{CC}	additional supply current	$V_I = V_{CC} - 2.1 \text{ V;} V_{CC} = 4.5 \text{ V to } 5.5 \text{ V;}$ $I_O = 0 \text{ A}$	-	-	410	μA

11 Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 6.

Symbol	Parameter	Conditions		25 °C		-40 °C to +125 °C			Unit
			Min	Тур	Max	Min	Max (85 °C)	Max (125 °C)	
74HC2G	04-Q100								
t _{pd}	propagation	nA to nY; see Figure 5							
	delay	V_{CC} = 2.0 V; C_L = 50 pF	-	22	75	-	90	110	ns
		V_{CC} = 4.5 V; C_L = 50 pF	-	8	15	-	18	22	ns
		$V_{CC} = 6.0 \text{ V}; C_L = 50 \text{ pF}$	-	6	13	-	16	20	ns
t _t	transition time	nY; see <u>Figure 5</u> [2]							
		V_{CC} = 2.0 V; C_L = 50 pF	-	18	75	-	95	125	ns
		V_{CC} = 4.5 V; C_L = 50 pF	-	6	15	-	19	25	ns
		$V_{CC} = 6.0 \text{ V}; C_L = 50 \text{ pF}$	-	5	13	-	16	20	ns
C _{PD}	power dissipation capacitance	$V_I = GND \text{ to } V_{CC}$ [3]	-	9	-	-	-	-	pF
74HCT2	G04-Q100				<u>'</u>	'		1	
t _{pd}	propagation	nA to nY; see Figure 5							
	delay	V_{CC} = 4.5 V; C_L = 50 pF	-	10	18	-	23	29	ns
t _t	transition time	nY; see Figure 5							
		V_{CC} = 4.5 V; C_L = 50 pF	-	6	15	-	19	22	ns
C _{PD}	power dissipation capacitance	$V_{I} = GND \text{ to } V_{CC} - 1.5 \text{ V}$ [3]	-	9	-	-	-	-	pF

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

 ^[2] t is the same as t_{TLH} and t_{THL}.
 [3] 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;

f_o = output frequency in MHz;

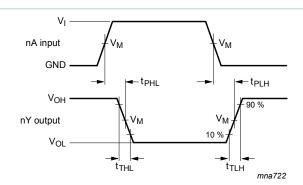
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $[\]Sigma(C_L \times V_{CC}^2 \times f_0)$ = sum of the outputs.

11.1 Waveform and test circuit



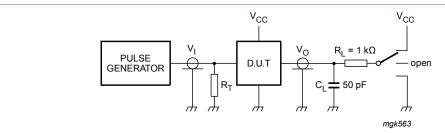
Measurement points are given in Table 10.

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

Figure 5. The data input (nA) to output (nY) propagation delays and output transition times

Table 10. Measurement points

Туре	Input			Output
	V _M	VI	$t_r = t_f$	V _M
74HC2G04-Q100	0.5V _{CC}	GND to V _{CC}	6.0 ns	0.5V _{CC}
74HCT2G04-Q100	1.3 V	GND to 3.0 V	6.0 ns	1.3 V



Test data is given in <u>Table 11</u>.

Definitions test circuit:

R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

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

Figure 6. Test circuit for measuring switching times

Table 11. Test data

Туре	Input		Test
	VI	t _r , t _f	t _{PHL} , t _{PLH}
74HC2G04-Q100	GND to V _{CC}	6 ns	open
74HCT2G04-Q100	GND to 3.0 V	6 ns	open

12 Package outline

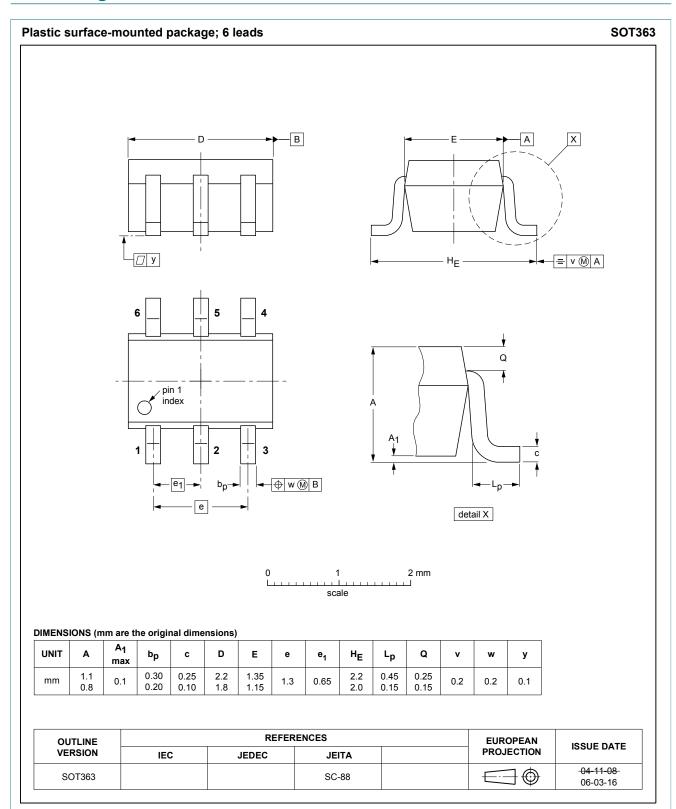
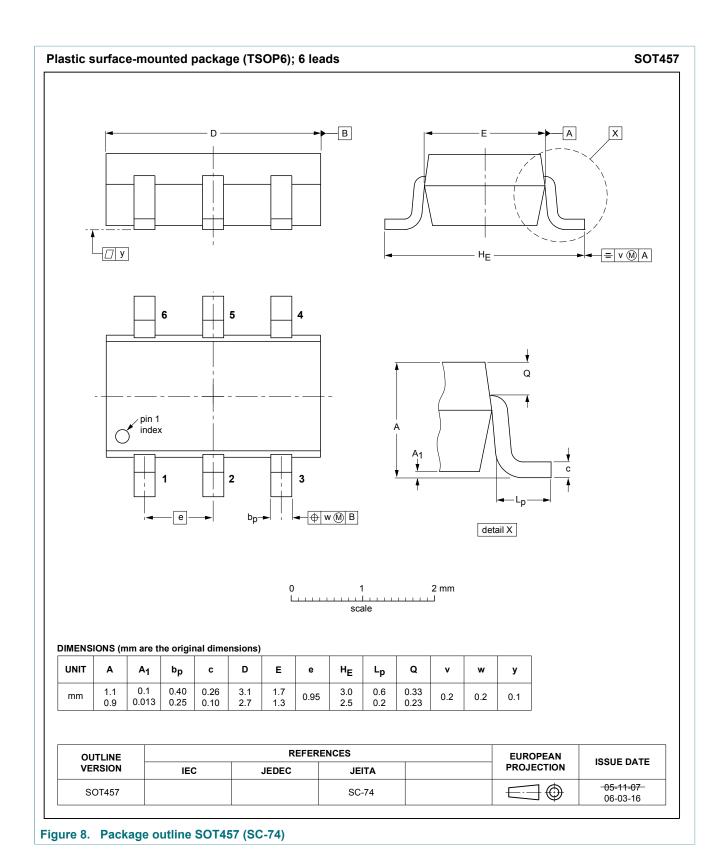


Figure 7. Package outline SOT363 (SC-88)



74HC_HCT2G04_Q100

13 Abbreviations

Table 12. Abbreviations

Table 12. / toble viations		
Acronym	Description	
CMOS	Complementary Metal Oxide Semiconductor	
DUT	Device Under Test	
ESD	ElectroStatic Discharge	
НВМ	Human Body Model	
MIL	Military	
MM	Machine Model	
TTL	Transistor-Transistor Logic	

14 Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT2G04_Q100 v.2	20180611	Product data sheet	-	74HC_HCT2G04_Q100 v.1
Modifications:	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. 			
74HC_HCT2G04_Q100 v.1	20140519	Product data sheet	-	-

15 Legal information

15.1 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.

- Please consult the most recently issued document before initiating or completing a design.
- The term 'short data sheet' is explained in section "Definitions". [2] [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 URL http://www.nexperia.com.

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Dual inverter

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