# 74AHC3G14-Q100; 74AHCT3G14-Q100

# **Triple inverting Schmitt trigger**

Rev. 4 — 4 December 2018

Product data sheet

### 1. General description

74AHC3G14-Q100 and 74AHCT3G14-Q100 are high-speed Si-gate CMOS devices. They provide three inverting buffers with Schmitt trigger action. These devices are capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

The AHC device has CMOS input switching levels and supply voltage range 2 V to 5.5 V.

The AHCT device has TTL input switching levels and supply voltage range 4.5 V to 5.5 V.

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

### 2. 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
- Symmetrical output impedance
- · 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

# 3. Applications

- Wave and pulse shaper for highly noisy environment
- Astable multivibrator
- · Monostable multivibrator

# 4. Ordering information

### **Table 1. Ordering information**

Type number	Package								
	Temperature range	Name	Description	Version					
74AHC3G14DP-Q100	-40 °C to +125 °C		process and comment of the process graph and g						
74AHCT3G14DP-Q100			body width 3 mm; lead length 0.5 mm						
74AHC3G14DC-Q100	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package;	SOT765-1					
74AHCT3G14DC-Q100			8 leads; body width 2.3 mm						



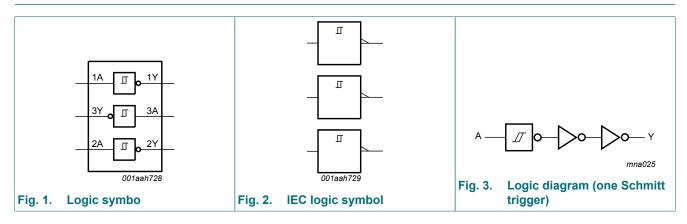
# 5. Marking

#### Table 2. Marking codes

Type number	Marking code[1]
74AHC3G14DP-Q100	A14
74AHCT3G14DP-Q100	C14
74AHC3G14DC-Q100	A14
74AHCT3G14DC-Q100	C14

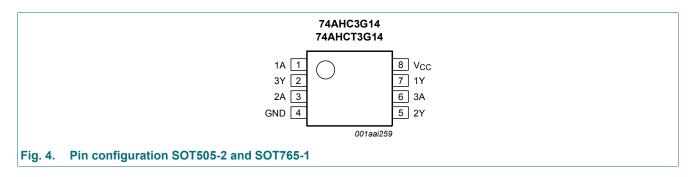
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 6. Functional diagram



### 7. Pinning information

### 7.1. Pinning



### 7.2. Pin description

Table 3. Pin description

Table of the accompany						
Symbol	Pin	Description				
1A, 2A, 3A	1, 3, 6 data input					
GND	4 ground (0 V)					
1Y, 2Y, 3Y	7, 5, 2 data output					
V <sub>CC</sub>	8 supply voltage					

74AHC\_AHCT3G14\_Q100

### 8. Functional description

#### **Table 4. Function table**

H = HIGH voltage level; L = LOW voltage level

Input nA	Output nY
L	Н
Н	L

# 9. Limiting values

#### Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	supply voltage		-0.5	+7.0	V
VI	input voltage		-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < -0.5 V	-20	-	mA
I <sub>OK</sub>	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
Io	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$	-	±25	mA
I <sub>CC</sub>	supply current		-	75	mA
I <sub>GND</sub>	ground current		-75	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C [2]	-	250	mW

<sup>[1]</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

# 10. Recommended operating conditions

#### Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	nditions 74AHC3G14-Q100			74AH	Unit		
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	0	-	5.5	V
V <sub>O</sub>	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

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

# 11. 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	1
74AHC3	G14-Q100							1		
011	HIGH-level	$V_I = V_{T+}$ or $V_{T-}$								
	output voltage	I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		$I_O = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	V
		$I_{O}$ = -8.0 mA; $V_{CC}$ = 4.5 V	3.94	-	-	3.8	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{T+}$ or $V_{T-}$								
	output voltage	I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		$I_{O}$ = 8.0 mA; $V_{CC}$ = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
l <sub>l</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	10	-	40	μΑ
Cı	input capacitance		-	1.5	10	-	10	-	10	pF
74AHCT	3G14-Q100				I			I		
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{T+} \text{ or } V_{T-}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -8.0 mA	3.94	-	-	3.8	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{T+} \text{ or } V_{T-}; V_{CC} = 4.5 \text{ V}$								
	output voltage	Ι <sub>Ο</sub> = 50 μΑ	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
l <sub>l</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	10	-	40	μΑ
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_I$ = 3.4 V; other inputs at $V_{CC}$ or GND; $I_O$ = 0 A; $V_{CC}$ = 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
C <sub>I</sub>	input capacitance		-	1.5	10	-	10	-	10	pF

### 11.1. Transfer characteristics

**Table 8. Transfer characteristics** 

At recommended operating conditions; voltages are referenced to GND (ground = 0 V). See Fig. 7 and Fig. 8.

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHC3	G14-Q100	<u> </u>			<u>'</u>	<u> </u>	'	'	<u> </u>	
$V_{T+}$	positive-going	V <sub>CC</sub> = 3.0 V	-	-	2.2	-	2.2	-	2.2	V
	threshold voltage	V <sub>CC</sub> = 4.5 V	-	-	3.15	-	3.15	-	3.15	V
		V <sub>CC</sub> = 5.5 V	-	-	3.85	-	3.85	-	3.85	V
V <sub>T-</sub>	negative-going	$V_{CC} = 3.0 \text{ V}$	0.9	-	-	0.9	-	0.9	-	V
	threshold voltage	V <sub>CC</sub> = 4.5 V	1.35	-	-	1.35	-	1.35	-	V
		V <sub>CC</sub> = 5.5 V	1.65	-	-	1.65	-	1.65	-	V
$V_{H}$	hysteresis voltage	$V_{CC} = 3.0 \text{ V}$	0.3	-	1.2	0.3	1.2	0.25	1.2	V
		V <sub>CC</sub> = 4.5 V	0.4	-	1.4	0.4	1.4	0.35	1.4	V
		V <sub>CC</sub> = 5.5 V	0.5	-	1.6	0.5	1.6	0.45	1.6	V
74AHCT	3G14-Q100				'					
$V_{T+}$	positive-going	V <sub>CC</sub> = 4.5 V	-	-	2.0	-	2.0	-	2.0	V
	threshold voltage	V <sub>CC</sub> = 5.5 V	-	-	2.0	-	2.0	-	2.0	V
V <sub>T-</sub>	negative-going	V <sub>CC</sub> = 4.5 V	0.5	-	-	0.5	-	0.5	-	V
	threshold voltage	V <sub>CC</sub> = 5.5 V	0.6	-	-	0.6	-	0.6	-	V
V <sub>H</sub>	hysteresis voltage	V <sub>CC</sub> = 4.5 V	0.4	-	1.4	0.4	1.4	0.35	1.4	V
		V <sub>CC</sub> = 5.5 V	0.4	-	1.6	0.4	1.6	0.35	1.6	V

# 12. Dynamic characteristics

#### **Table 9. Dynamic characteristics**

GND = 0 V;  $t_r = t_f \le 3.0$  ns; for test circuit see Fig. 6.

Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
				Min	Тур	Max	Min	Max	Min	Max	1
74AHC3	G14-Q100							·	'	'	
	propagation	nA to nY; see Fig. 5	[1]								
	delay	V <sub>CC</sub> = 3.0 V to 3.6 V	[2]								
		C <sub>L</sub> = 15 pF		-	4.2	12.8	1.0	15.0	1.0	16.5	ns
		C <sub>L</sub> = 50 pF		-	6.0	16.3	1.0	18.5	1.0	20.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	3.2	8.6	1.0	10.0	1.0	11.0	ns
		C <sub>L</sub> = 50 pF		-	4.6	10.6	1.0	12.0	1.0	13.5	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}$ ; $f_i = 1 \text{ MHz}$ ; $V_I = \text{GND to } V_{CC}$	[4]	-	10	-	-	-	-	-	pF
74AHCT	3G14-Q100							'		•	
t <sub>pd</sub>	propagation	nA to nY; see Fig. 5	[1]								
	delay	V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	4.1	7.0	1.0	8.0	1.0	9.0	ns
		C <sub>L</sub> = 50 pF		-	5.9	8.5	1.0	10.0	1.0	11.0	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; $C_L$ = 50 pF; $f_i$ = 1 MHz; $V_I$ = GND to $V_{CC}$	[4]	-	12	-	-	-	-	-	pF

- $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}.$  Typical values are measured at V  $_{CC}$  = 3.3 V.
- Typical values are measured at  $V_{CC} = 5.0 \text{ V}$ . Typical values are measured at  $V_{CC} = 5.0 \text{ V}$ .  $C_{PD}$  is used to determine the dynamic power dissipation  $P_D$  ( $\mu$ W).  $P_D = C_{PD} \times {V_{CC}}^2 \times f_i + \Sigma (C_L \times {V_{CC}}^2 \times f_o)$  where:

 $f_i$  = input frequency in MHz;

fo = output frequency in MHz;

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

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

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

### 12.1. Waveform and test circuit

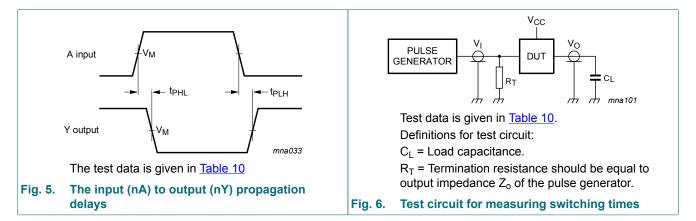
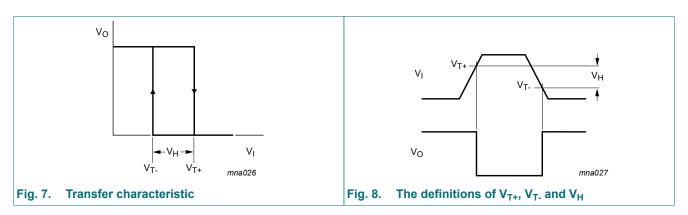


Table 10. Test data

Type number	Input	Output	
	V <sub>I</sub>	V <sub>M</sub>	
74AHC3G14-Q100	GND to V <sub>CC</sub>	0.5 x V <sub>CC</sub>	0.5 x V <sub>CC</sub>
74AHCT3G14-Q100	GND to 3.0 V	1.5 V	0.5 x V <sub>CC</sub>

### 12.2. Transfer characteristic waveforms



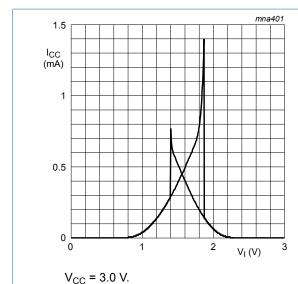


Fig. 9. Typical 74AHC3G14-Q100 transfer characteristics

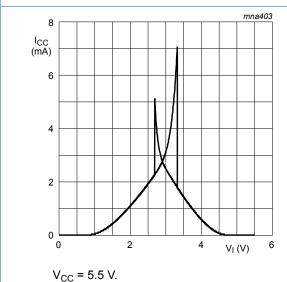


Fig. 11. Typical 74AHC3G14-Q100 transfer characteristics

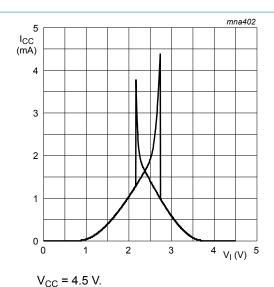
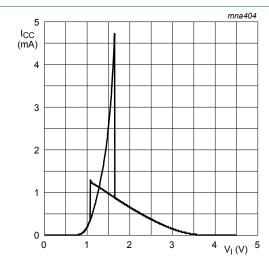
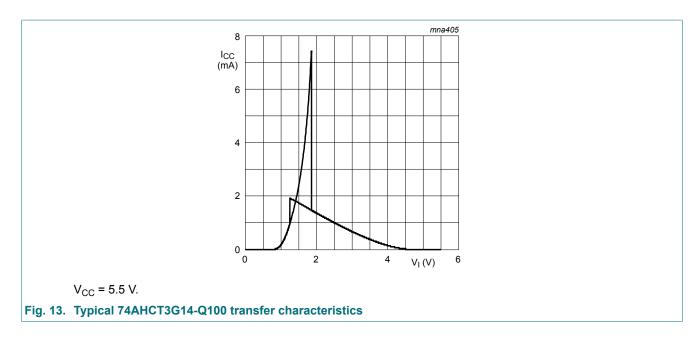


Fig. 10. Typical 74AHC3G14-Q100 transfer characteristics



 $V_{CC} = 4.5 \text{ V}.$ 

Fig. 12. Typical 74AHCT3G14-Q100 transfer characteristics



### 13. Application information

The slow input rise and fall times cause additional power dissipation, which can be calculated using the following formula:

 $P_{add} = f_i x (t_r x \Delta I_{CC(AV)} + t_f x \Delta I_{CC(AV)}) \times V_{CC}$  where:

 $P_{add}$  = additional power dissipation ( $\mu$ W);

 $f_i$  = input frequency (MHz);

 $t_r$  = input rise time (ns); 10 % to 90 %;

 $t_f$  = input fall time (ns); 90 % to 10 %;

 $\Delta I_{CC(AV)}$  = average additional supply current ( $\mu A$ ).

ΔI<sub>CC(AV)</sub> differs with positive or negative input transitions, as shown in Fig. 14 and Fig. 15.

For 74AHC3G14-Q100 and 74AHCT3G14-Q100 used in relaxation oscillator circuit, see Fig. 16.

#### Note to the application information:

1. All values given are typical unless otherwise specified.

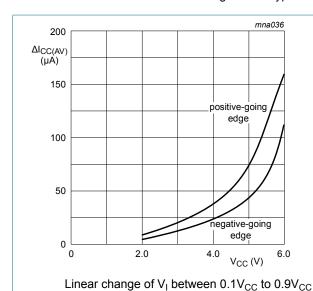
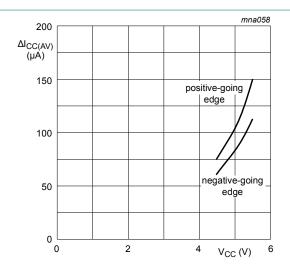
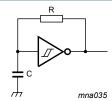


Fig. 14. Average additional I<sub>CC</sub> for 74AHC3G14-Q100 Schmitt trigger devices



Linear change of V<sub>I</sub> between 0.1V<sub>CC</sub> to 0.9V<sub>CC</sub>

Fig. 15. Average additional I<sub>CC</sub> for 74AHCT3G14-Q100 Schmitt trigger devices



For 74AHC3G14-Q100:  $f = \frac{1}{T} \approx \frac{1}{0.55 \times RC}$ For 74AHCT3G14-Q100:  $f = \frac{1}{T} \approx \frac{1}{0.60 \times RC}$ 

Fig. 16. Relaxation oscillator using the 74AHC3G14-Q100 and 74AHCT3G14-Q100

# 14. Package outline

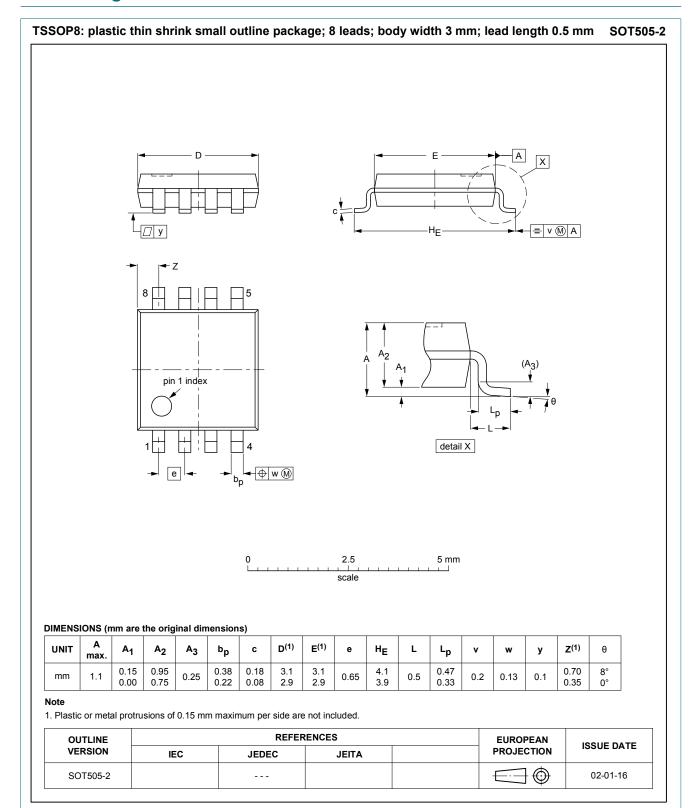


Fig. 17. Package outline SOT505-2 (TSSOP8)

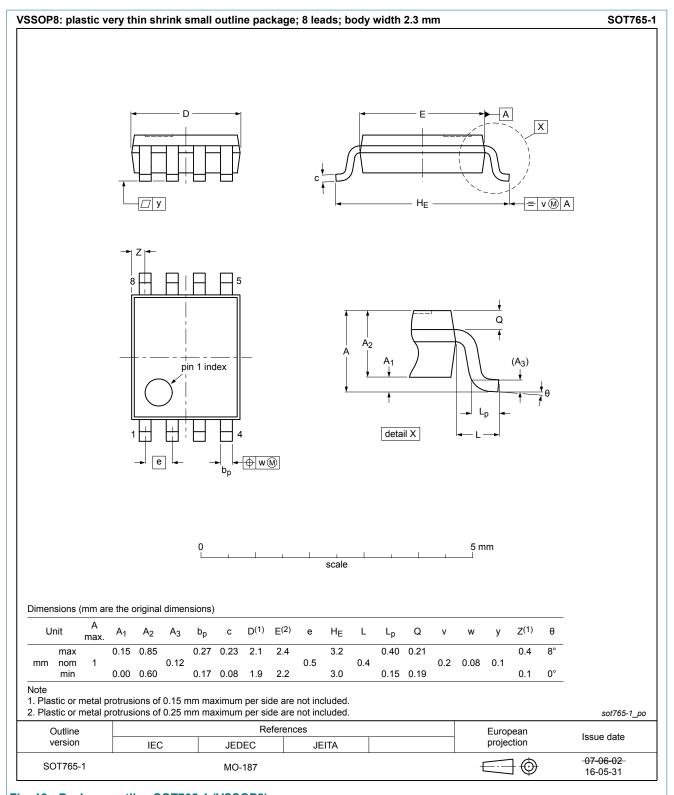


Fig. 18. Package outline SOT765-1 (VSSOP8)

### 15. Abbreviations

#### **Table 11. Abbreviations**

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MIL	Military
MM	Machine Model
TTL	Transistor-Transistor Logic

# 16. Revision history

#### **Table 12. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes			
74AHC_AHCT3G14_Q100 v.4	20181204	Product data sheet	-	74AHC_AHCT3G14_Q100 v.3			
Modifications:	guidelines of N • Legal texts ha	ormat of this data sheet has been redesigned to comply with the identity lines of Nexperia.  texts have been adapted to the new company name where appropriate. number 74AHC3G14GD-Q100 and 74AHCT3G14GD-Q100 (SOT996-2/N8) removed.					
74AHC_AHCT3G14_Q100 v.3	20130916	Product data sheet	-	74AHC_AHCT3G14_Q100 v.2			
Modifications:	Added type number 74AHC3G14GD-Q100 and 74AHCT3G14GD-Q100.						
74AHC_AHCT3G14_Q100 v.2	20130128	Product data sheet	-	74AHC_AHCT3G14_Q100 v.1			
74AHC_AHCT3G14_Q100 v.1	20121001	Product data sheet	-	-			

### 17. 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.

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