# 74AHC1G126-Q100; 74AHCT1G126-Q100

Bus buffer/line driver; 3-state

Rev. 3 — 11 January 2022

Product data sheet

### 1. General description

The 74AHC1G126-Q100; 74AHCT1G126-Q100 is a single buffer/line driver with 3-state output. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

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
- Balanced propagation delays
- Wide supply voltage range from 2.0 to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- · High noise immunity
- · CMOS low power dissipation
- · Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- Input levels:
  - For 74AHC1G126-Q100: CMOS level
  - For 74AHCT1G126-Q100: TTL level
- 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  $\Omega$ )

# 3. Ordering information

**Table 1. Ordering information** 

ackage									
Version									
SOT353-1									
SOT753									



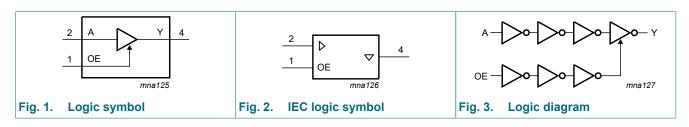
### 4. Marking

#### Table 2. Marking codes

Type number	Marking [1]
74AHC1G126GW-Q100	AN
74AHCT1G126GW-Q100	CN
74AHC1G126GV-Q100	A26
74AHCT1G126GV-Q100	C26

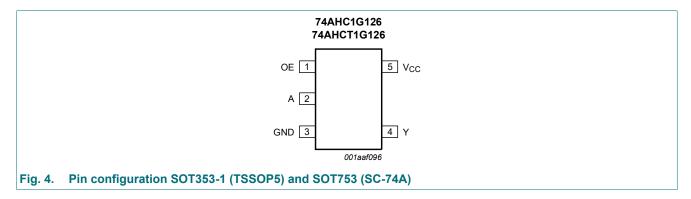
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 5. Functional diagram



### 6. Pinning information

### 6.1. Pinning



### 6.2. Pin description

Table 3. Pin description

table 6.1 in description									
Symbol	Pin	Description							
OE	1	output enable input							
A	2	data input A							
GND	3	ground (0 V)							
Υ	4	data output Y							
V <sub>CC</sub>	5	supply voltage							

### 7. Functional description

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

H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state

Input OE		Output
OE	A	Υ
Н	L	L
Н	Н	Н
L	X	Z

# 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
VI	input voltage			-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < -0.5 V	[1]	-20	-	mA
I <sub>OK</sub>	output clamping current	$V_{O}$ < -0.5 V or $V_{O}$ > $V_{CC}$ + 0.5 V	[1]	-	±20	mA
Io	output current	-0.5 V < V <sub>O</sub> < V <sub>CC</sub> + 0.5 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.

## 9. Recommended operating conditions

#### Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74AH	IC1G126-	-Q100	74AH	Unit		
			Min	Тур	Max	Min	Тур	Max	
$V_{CC}$	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
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	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	-	-	100	-	-	-	ns/V
	fall rate	$V_{CC} = 5.0 \text{ V} \pm 0.5 \text{ V}$	-	-	20	-	-	20	ns/V

<sup>[2]</sup> For SOT353-1 (TSSOP5) package: P<sub>tot</sub> derates linearly with 3.3 mW/K above 74 °C. For SOT753 (SC-74A) package: P<sub>tot</sub> derates linearly with 3.8 mW/K above 85 °C.

### 10. Static characteristics

#### **Table 7. Static characteristics**

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

Symbol	Parameter	Conditions		25 °C		-40 °C 1	to +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74AHC1	G126-Q100									
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V <sub>CC</sub> = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V <sub>CC</sub> = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
ou	output voltage	$I_O = -50 \mu A; V_{CC} = 2.0 V$	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 mA; $V_{CC}$ = 3.0 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 output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu A; V_{CC} = 3.0 V$	-	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
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
		$I_O = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.25	-	±2.5	-	±10	μA
lı	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; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μA
C <sub>I</sub>	input capacitance		-	3	10	-	10	-	10	pF

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHCT	1G126-Q100		'							_
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
OII	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	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 output voltage	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
		I <sub>O</sub> = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.25	-	±2.5	-	±10	μA
lį	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; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μΑ
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}$ ; other inputs at $V_{CC}$ or GND; $I_O = 0 \text{ A}$ ; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
Cı	input capacitance		-	3	10	-	10	-	10	pF

# 11. Dynamic characteristics

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

GND = 0 V; for test circuit see Fig. 7.

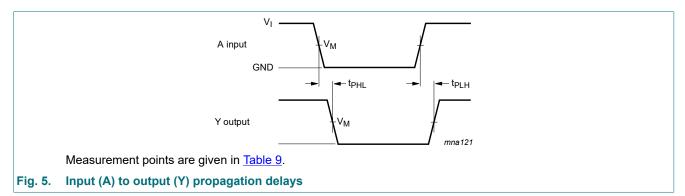
Symbol	Parameter	Conditions			25 °C		-40 °C	to +85 °C	-40 °C to +125 °C		Unit
				Min	Тур	Max	Min	Max	Min	Max	
74AHC1	G126-Q100							'	'	ı	
t <sub>pd</sub>	propagation	A to Y; see Fig. 5	[1]								
	delay	V <sub>CC</sub> = 3.0 V to 3.6 V	[2]								
		C <sub>L</sub> = 15 pF		-	4.4	8.0	1.0	9.5	1.0	10.0	ns
		C <sub>L</sub> = 50 pF		-	6.3	11.5	1.0	13.0	1.0	14.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	3.4	5.5	1.0	6.5	1.0	7.0	ns
		C <sub>L</sub> = 50 pF		-	4.7	7.5	1.0	8.5	1.0	9.5	ns
t <sub>en</sub>	enable time	OE to Y; see Fig. 6	[1]								
		V <sub>CC</sub> = 3.0 V to 3.6 V	[2]								
		C <sub>L</sub> = 15 pF		-	4.9	8.0	1.0	9.5	1.0	10.0	ns
		C <sub>L</sub> = 50 pF		-	7.0	11.5	1.0	13.0	1.0	14.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	3.6	5.6	1.0	6.3	1.0	7.0	ns
		C <sub>L</sub> = 50 pF		-	5.4	8.0	1.0	9.0	1.0	9.5	ns
t <sub>dis</sub>	disable time	OE to Y; see Fig. 6	[1]								
		V <sub>CC</sub> = 3.0 V to 3.6 V	[2]								
		C <sub>L</sub> = 15 pF		-	6.3	9.7	1.0	11.5	1.0	12.5	ns
		C <sub>L</sub> = 50 pF		-	9.0	13.2	1.0	15.0	1.0	16.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	4.3	6.8	1.0	8.0	1.0	8.5	ns
		C <sub>L</sub> = 50 pF		-	6.1	8.8	1.0	10.0	1.0	11.0	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}$ ; f = 1  MHz; $V_I = \text{GND to } V_{CC}$	[4]	-	9	-	-	-	-	-	pF

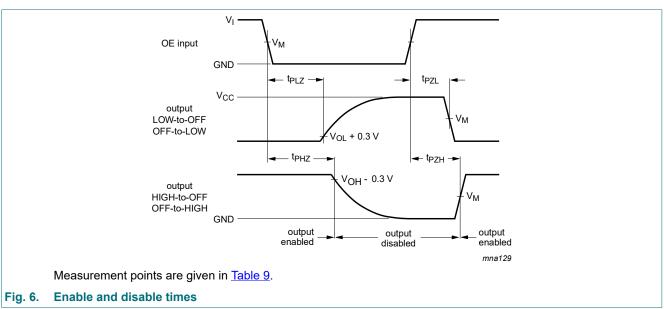
Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit		
				Min	Тур	Max	Min	Max	Min	Max	
74AHCT	1G126-Q100										
t <sub>pd</sub>	propagation	A to Y; see Fig. 5	[1]								
	delay	V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
	C <sub>L</sub> = 15 pF		-	3.4	5.5	1.0	6.5	1.0	7.0	ns	
		C <sub>L</sub> = 50 pF		-	4.7	7.5	1.0	8.5	1.0	9.5	ns
t <sub>en</sub>	enable time	OE to Y; see Fig. 6	[1]								
		V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	3.4	5.6	1.0	6.3	1.0	6.5	ns
		C <sub>L</sub> = 50 pF		-	4.8	8.0	1.0	9.0	1.0	9.0	ns
t <sub>dis</sub>	disable time	OE to Y; see Fig. 6	[1]								
		V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	4.0	6.8	1.0	8.0	1.0	8.5	ns
		C <sub>L</sub> = 50 pF		-	5.7	8.8	1.0	10.0	1.0	11.5	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; C <sub>L</sub> = 50 pF; f = 1 MHz; V <sub>I</sub> = GND to V <sub>CC</sub>	[4]	-	11	-	-	-	-	-	pF

- [1]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .
  - $t_{\text{en}}$  is the same as  $t_{\text{PZL}}$  and  $t_{\text{PZH}}.$
- $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ . Typical values are measured at  $V_{CC}$  = 3.3 V.
- [3] Typical values are measured at  $V_{CC}$  = 5.0 V. [4]  $C_{PD}$  is used to determine the dynamic power dissipation  $P_D$  ( $\mu$ W).
  - $P_D = C_{PD} \times V_{CC}^2 \times f_i + \sum (C_L \times V_{CC}^2 \times f_o)$  where:
  - f<sub>i</sub> = input frequency in MHz;
  - f<sub>o</sub> = output frequency in MHz;
  - C<sub>L</sub> = output load capacitance in pF;
  - V<sub>CC</sub> = supply voltage in Volts.

7/14

### 11.1. Waveforms and test circuit



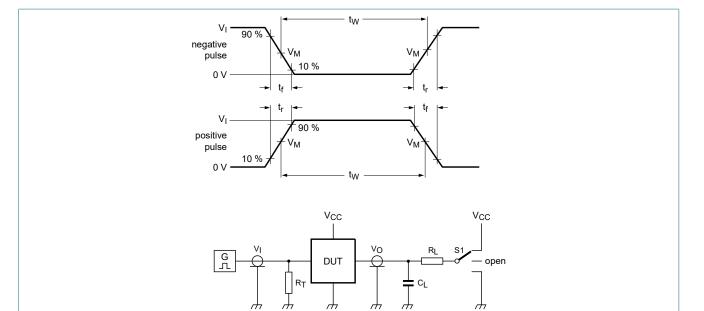


**Table 9. Measurement points** 

Туре	Input	Output	
	V <sub>M</sub>	V <sub>I</sub>	V <sub>M</sub>
74AHC1G126-Q100	0.5 × V <sub>CC</sub>	GND to V <sub>CC</sub>	0.5 × V <sub>CC</sub>
74AHCT1G126-Q100	1.5 V	GND to 3.0 V	0.5 × V <sub>CC</sub>

001aad983

Bus buffer/line driver; 3-state



Test data is given in Table 10.

Definitions test circuit:

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

C<sub>L</sub> = Load capacitance including jig and probe capacitance;

R<sub>L</sub> = Load resistance;

S1 = Test selection switch.

### Fig. 7. Test circuit for measuring switching times

Table 10. Test data

Туре	Input		Load		S1 position		
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub>	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
74AHC1G126-Q100	V <sub>CC</sub>	≤ 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>
74AHCT1G126-Q100	3 V	≤ 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>

# 12. Package outline

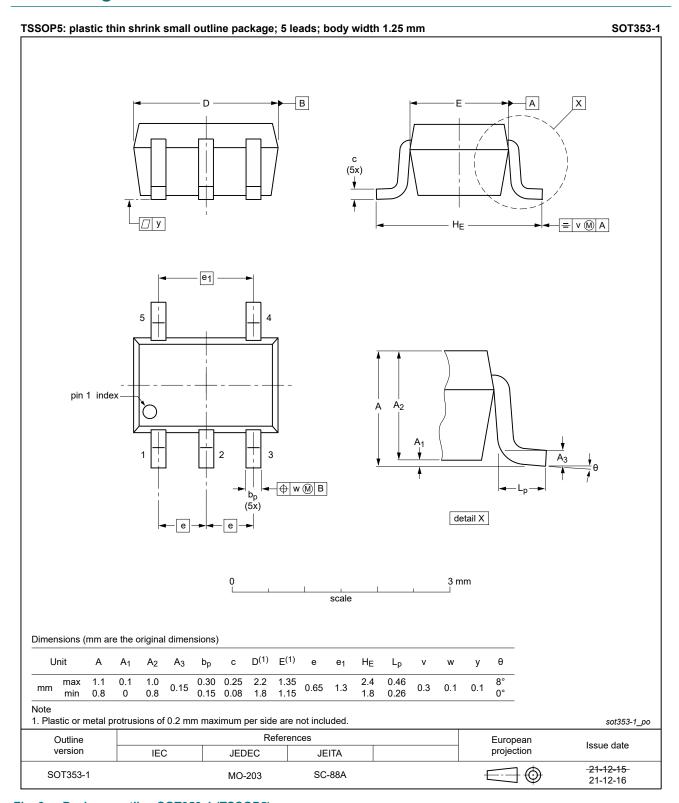


Fig. 8. Package outline SOT353-1 (TSSOP5)

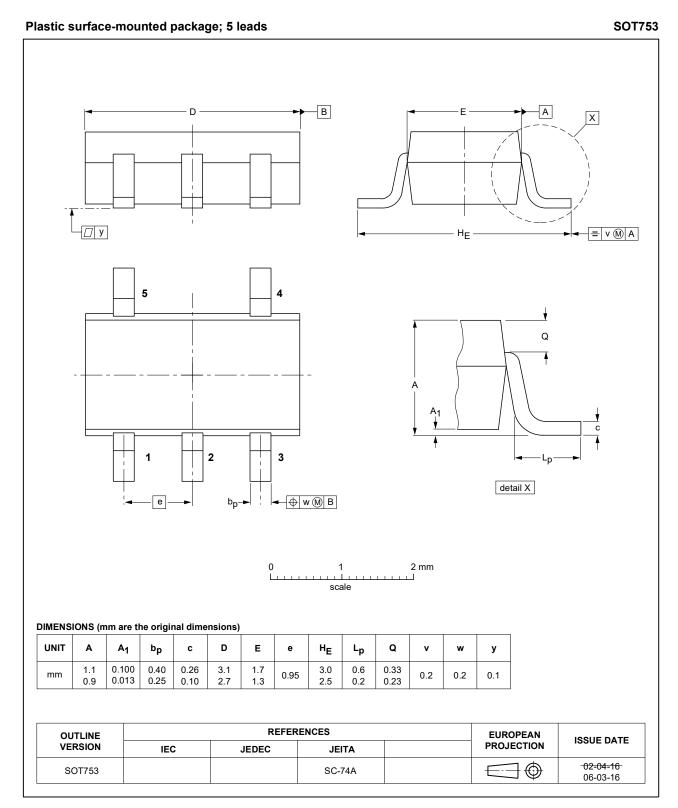


Fig. 9. Package outline SOT753 (SC-74A)

### 13. Abbreviations

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

Acronym	Description		
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		

# 14. Revision history

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

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT1G126_Q100 v.3	20220111	Product data sheet	-	74AHC_AHCT1G126_Q100 v.2
Modifications:	Fig. 8: Package outline drawing for SOT353-1 (TSSOP5) has changed.			
74AHC_AHCT1G126_Q100 v.2	20210518	Product data sheet	-	74AHC_AHCT1G126_Q100 v.1
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Section 1 and Section 2 updated.</li> </ul>			
	Section 2 updated.     Section 8: Derating values for P <sub>tot</sub> total power dissipation updated.			
74AHC_AHCT1G126_Q100 v.1	20130326	Product data sheet	-	-

### 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".
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### **Contents**

1. General description	1
2. Features and benefits	1
3. Ordering information	1
4. Marking	2
5. Functional diagram	2
6. Pinning information	2
6.1. Pinning	2
6.2. Pin description	2
7. Functional description	
8. Limiting values	3
9. Recommended operating conditions.	3
10. Static characteristics	4
11. Dynamic characteristics	
11.1. Waveforms and test circuit	8
12. Package outline	10
13. Abbreviations	
14. Revision history	12
15. Legal information	

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