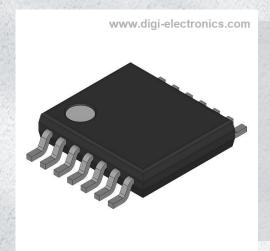


# 74LVC06APW,112 Datasheet



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DiGi Electronics Part Number 74LVC06APW,112-DG

Manufacturer NXP Semiconductors

Manufacturer Product Number 74LVC06APW,112

Description IC INVERTER

Detailed Description IC Channel



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# **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
74LVC06APW,112	NXP Semiconductors
Series:	Product Status:
74LVC	Active
Base Product Number:	
74LVC06	

# **Environmental & Export classification**

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected

# **74LVC06A**

# Hex inverter with open-drain outputs

Rev. 9 — 8 February 2024

**Product data sheet** 

### 1. General description

The 74LVC06A provides six inverting buffers. The outputs are open-drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V applications.

#### 2. Features and benefits

- 5 V tolerant inputs and outputs (open-drain) for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 5.5 V
- CMOS low power consumption
- · Direct interface with TTL levels
- Complies with JEDEC standard:
  - JESD8-7A (1.65 V to 1.95 V)
  - JESD8-5A (2.3 V to 2.7 V)
  - JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

# 3. Ordering information

**Table 1. Ordering information** 

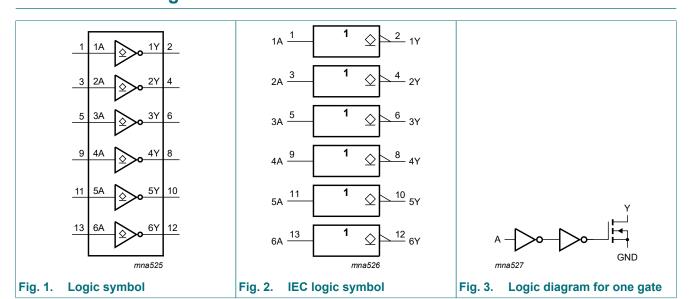
Type number	Package			
	Temperature range	Name	Description	Version
74LVC06AD	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74LVC06APW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1
74LVC06ABQ	-40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm	SOT762-1



**74LVC06A** 

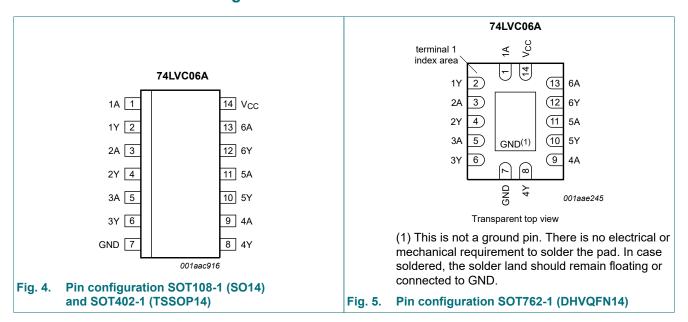
Hex inverter with open-drain outputs

# 4. Functional diagram



# 5. Pinning information

### 5.1. Pinning



### 5.2. Pin description

Table 2. Pin description

Table 211 III decemption					
Symbol	Pin	Description			
1A, 2A, 3A, 4A, 5A, 6A	1, 3, 5, 9, 11, 13	data input			
1Y, 2Y, 3Y, 4Y, 5Y, 6Y	2, 4, 6, 8, 10, 12	data output			
GND	7	ground (0 V)			
Vcc	14	supply voltage			

Hex inverter with open-drain outputs

# 6. Functional description

#### **Table 3. Function selection**

H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state

Input	Output
nA	nY
L	Z
Н	L

# 7. Limiting values

#### **Table 4. 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	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0	-50	-	mA
Vo	output voltage	active mode [2]	-0.5	+6.5	V
		high-impedance mode [2]	-0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	50	mA
I <sub>CC</sub>	supply current		-	100	mA
$I_{GND}$	ground current		-100	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C to } +125  ^{\circ}\text{C}$ [3]	-	500	mW

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

# 8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$V_{CC}$	supply voltage		1.65	-	5.5	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	active mode	0	-	5.5	V
		high-impedance mode	0	-	5.5	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 1.65 V to 2.7 V	0	-	20	ns/V
		$V_{CC}$ = 2.7 V to 5.5 V	0	-	10	ns/V

<sup>[2]</sup> The output voltage ratings may be exceeded if the output current ratings are observed.

<sup>[3]</sup> For SOT108-1 (SO14) package: P<sub>tot</sub> derates linearly with 10.1 mW/K above 100 °C. For SOT402-1 (TSSOP14) package: P<sub>tot</sub> derates linearly with 7.3 mW/K above 81 °C. For SOT762-1 (DHVQFN14) package: P<sub>tot</sub> derates linearly with 9.6 mW/K above 98 °C.

Hex inverter with open-drain outputs

# 9. Static characteristics

#### **Table 6. Static characteristics**

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

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C			-40 °C to +125 °C		
			Min	Typ [1]	Max	Min	Max		
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 1.2 V	1.08	-	-	1.08	-	V	
	voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65 × V <sub>CC</sub>	-	-	0.65 × V <sub>CC</sub>	-	V	
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V	
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V	
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.7 × V <sub>CC</sub>	-	-	0.7 × V <sub>CC</sub>	-	V	
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 1.2 V	-	-	0.12	-	0.12	V	
	voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35 × V <sub>CC</sub>	-	0.35 × V <sub>CC</sub>	V	
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V	
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V	
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.30 × V <sub>CC</sub>	-	0.30 × V <sub>CC</sub>	V	
$V_{OL}$	LOW-level	$V_I = V_{IH}$ or $V_{IL}$							
	output voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	-	-	0.20	-	0.3	V	
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.6	V	
		$I_{O}$ = 8 mA; $V_{CC}$ = 2.3 V	-	-	0.3	-	0.75	V	
		$I_{O}$ = 12 mA; $V_{CC}$ = 2.7 V	-	-	0.4	-	0.6	V	
		$I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.8	V	
		$I_{O}$ = 32 mA; $V_{CC}$ = 4.5 V	-	-	0.55	-	0.8	V	
I <sub>I</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 1.65 V to 5.5 V	-	±0.1	±5	-	±20	μΑ	
I <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ ; $V_O = 5.5 \text{ V or GND}$ ; $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	-	±0.1	±10	-	±20	μΑ	
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O} = 5.5 \text{ V}$ ; $V_{CC} = 0 \text{ V}$	-	±0.1	±10	-	±20	μΑ	
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	0.1	10	-	40	μΑ	
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 2.7 \text{ V to } 5.5 \text{ V}$	-	5	500	-	5000	μΑ	
Cı	input capacitance	$V_{CC} = 0 \text{ V to } 5.5 \text{ V};$ $V_I = \text{GND to } V_{CC}$	-	5.0	-	-	-	pF	

<sup>[1]</sup> All typical values are measured at  $V_{CC}$  = 3.3 V (unless stated otherwise) and  $T_{amb}$  = 25 °C.

Hex inverter with open-drain outputs

# 10. Dynamic characteristics

#### **Table 7. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 7.

Symbol	Parameter	Conditions	-40	°C to +85	°C	-40 °C to	+125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
t <sub>PZL</sub>	OFF-state to LOW	nA to nY; see Fig. 6						
	propagation delay	V <sub>CC</sub> = 1.2 V	-	9	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	0.5	2.8	5.7	0.5	6.7	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.5	1.9	3.1	0.5	4.0	ns
		V <sub>CC</sub> = 2.7 V	0.5	1.8	3.9	0.5	5.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.5	1.8	3.7	0.5	5.0	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.7	1.5	2.5	0.7	3.5	ns
t <sub>PLZ</sub>	LOW to OFF-state	nA to nY; see Fig. 6						
	propagation delay	V <sub>CC</sub> = 1.2 V	-	10	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	0.5	2.6	5.7	0.5	6.7	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.5	1.4	3.1	0.5	4.0	ns
		V <sub>CC</sub> = 2.7 V	0.5	2.6	3.9	0.5	5.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.5	2.2	3.7	0.5	5.0	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.6	1.5	2.6	0.6	3.5	ns
C <sub>PD</sub>	power dissipation	per buffer; $V_I$ = GND to $V_{CC}$ [2]						
	capacitance	V <sub>CC</sub> = 1.65 V to 1.95 V	-	6.5	-	-	-	pF
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	6.9	-	-	-	pF
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	7.2	-	-	-	pF

<sup>[1]</sup> Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.2 V, 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively. [2]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).

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

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

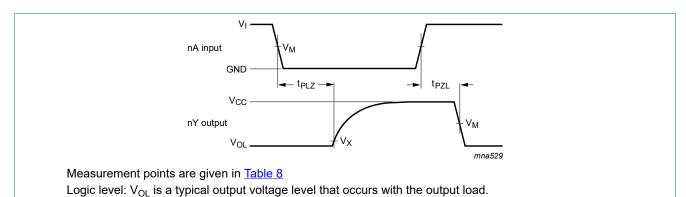
 $C_L$  = output load capacitance in pF

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

N = number of inputs switching

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

#### 10.1. Waveforms and test circuit

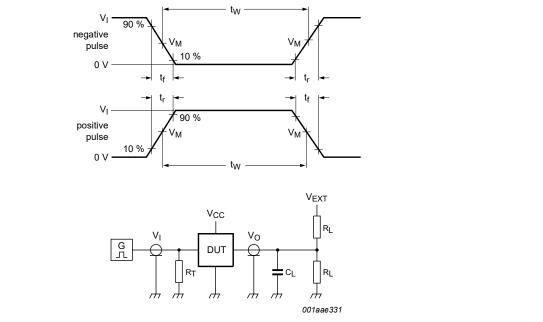


The input nA to output nY propagation delays Fig. 6.

#### Hex inverter with open-drain outputs

**Table 8. Measurement points** 

Supply voltage	Input	Output
V <sub>CC</sub>	V <sub>M</sub>	V <sub>X</sub>
< 2.7 V	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V
≥ 2.7 V to 3.6 V	1.5 V	V <sub>OL</sub> + 0.3 V
≥ 4.5 V to 5.5 V	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V



Test data is given in Table 9.

Definitions for 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  $Z_{\text{o}}$  of the pulse generator.

V<sub>EXT</sub> = External voltage for measuring switching times.

Fig. 7. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	pply voltage Input Lo		Load	Load		V <sub>EXT</sub>		
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PLZ</sub> , t <sub>PZL</sub>	t <sub>PHZ</sub> , t <sub>PZH</sub>	
1.2 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ	open	2 × V <sub>CC</sub>	GND	
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ	open	2 × V <sub>CC</sub>	GND	
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2 ns	30 pF	500 Ω	open	2 × V <sub>CC</sub>	GND	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V <sub>CC</sub>	GND	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V <sub>CC</sub>	GND	
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open	2 × V <sub>CC</sub>	GND	

#### Hex inverter with open-drain outputs

# 11. Package outline

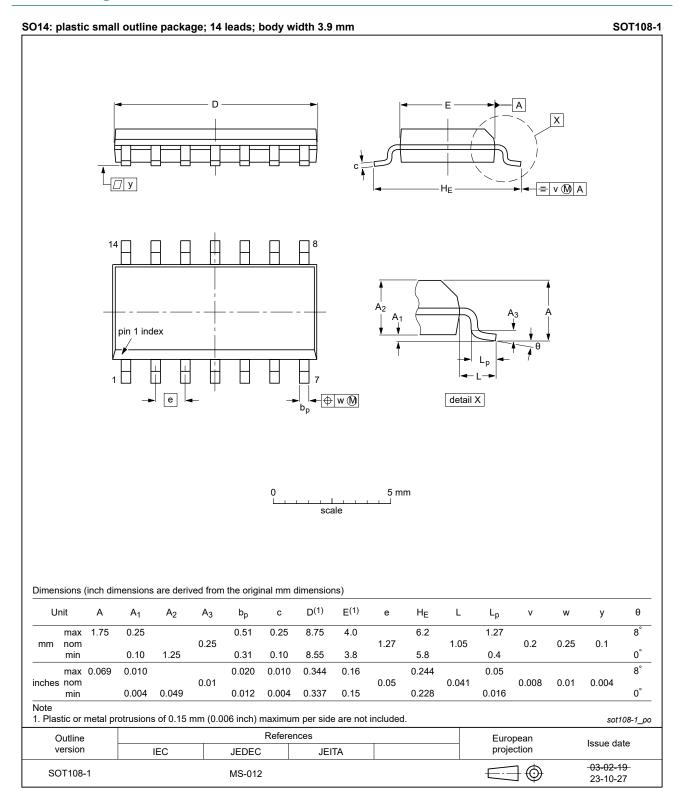


Fig. 8. Package outline SOT108-1 (SO14)

#### Hex inverter with open-drain outputs

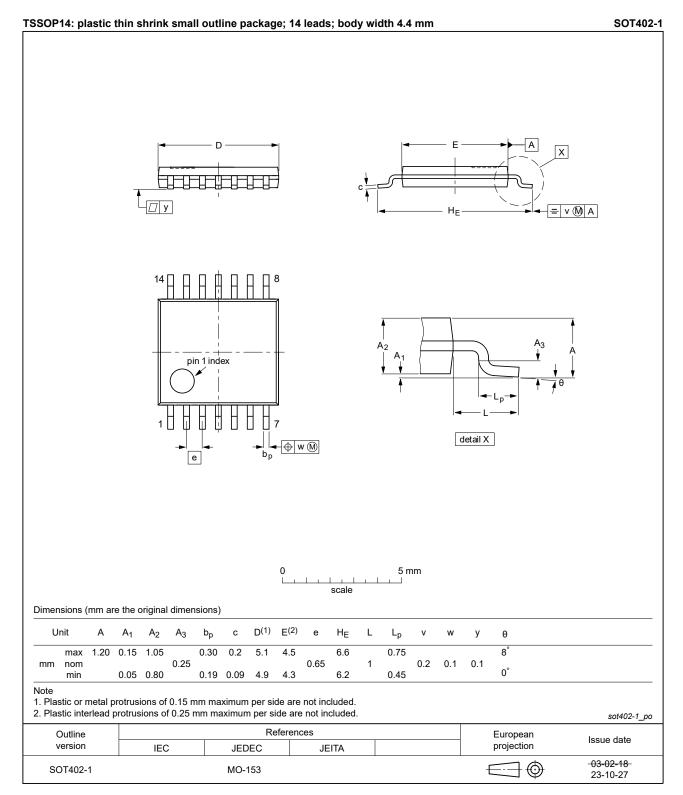


Fig. 9. Package outline SOT402-1 (TSSOP14)

#### Hex inverter with open-drain outputs

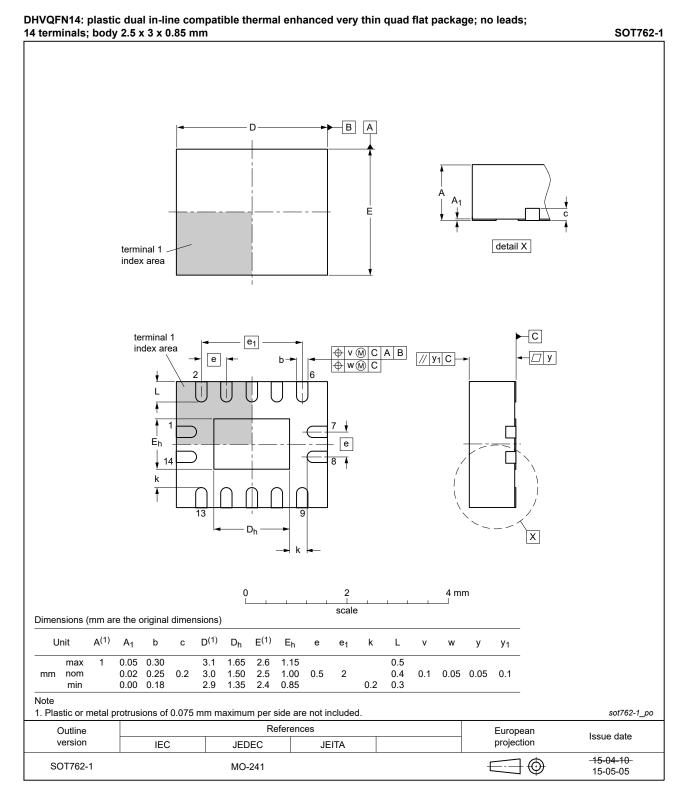


Fig. 10. Package outline SOT762-1 (DHVQFN14)

#### Hex inverter with open-drain outputs

# 12. Abbreviations

#### **Table 10. Abbreviations**

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
TTL	Transistor-Transistor Logic

# 13. Revision history

#### **Table 11. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC06A v.9	20240208	Product data sheet	-	74LVC06A v.8	
Modifications:	• Fig. 8, Fig. 9 MO-153.	9: Aligned SO and TSSOP	package outline	drawings to JEDEC MS-012 and	
74LVC06A v.8	20230802	Product data sheet	-	74LVC06A v.7	
Modifications:	Section 2: E	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard			
74LVC06A v.7	20200804	Product data sheet	-	74LVC06A v.6	
Modifications:	guidelines of Legal texts  Table 4: Del	• Table 4: Derating values for P <sub>tot</sub> total power dissipation updated.			
74LVC06A v.6	20111110	Product data sheet	-	74LVC06A v.5	
Modifications:	• <u>Table 6</u> : Co	<u>Table 6</u> : Conditions column, additional supply current V <sub>CC</sub> range updated			
74LVC06A v.5	20111024	Product data sheet	-	74LVC06A v.4	
Modifications:	<u>Table 7</u> : values added for lower voltage ranges				
74LVC06A v.4	20110810	Product data sheet	-	74LVC06A v.3	
Modifications:	guidelines o Legal texts	<ul> <li>The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Table 4, Table 5, Table 6, Table 7, and Table 9: values added for lower voltage ranges.</li> </ul>			
74LVC06A v.3	20031127	Product specification	-	74LVC06A v.2	
74LVC06A v.2	20030828	Product specification	-	74LVC06A v.1	
74LVC06A v.1	20000307	Product specification	-	-	

### Hex inverter with open-drain outputs

### 14. 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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#### Hex inverter with open-drain outputs

# **Contents**

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

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