# 74LVC1G06

# Inverter with open-drain output

Rev. 15 — 4 August 2023

**Product data sheet** 

## 1. General description

The 74LVC1G06 is a single inverter with open-drain output. 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 environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

### 2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- High noise immunity
- · Complies with JEDEC standard:
  - JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8C (2.7 V to 3.6 V)
  - JESD36 (4.5 V to 5.5 V)
- ±24 mA output drive (V<sub>CC</sub> = 3.0 V)
- CMOS low power dissipation
- Latch-up performance exceeds 250 mA
- · Direct interface with TTL levels
- Overvoltage tolerant inputs to 5.5 V
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
- Multiple package options
- · 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 +125 °C



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# 3. Ordering information

**Table 1. Ordering information** 

Type number	Package	Package							
	Temperature range Name		Description	Version					
74LVC1G06GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1					
74LVC1G06GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753					
74LVC1G06GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886					
74LVC1G06GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115					
74LVC1G06GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202					
74LVC1G06GX	-40 °C to +125 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 × 0.8 × 0.32 mm	SOT1226-3					

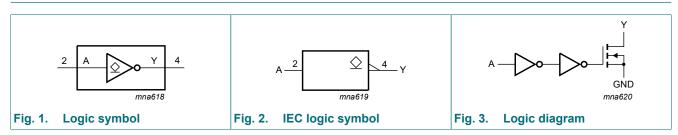
## 4. Marking

Table 2. Marking codes

Type number	Marking [1]
74LVC1G06GW	VR
74LVC1G06GV	V06
74LVC1G06GM	VR
74LVC1G06GN	VR
74LVC1G06GS	VR
74LVC1G06GX	VR

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

# 5. Functional diagram

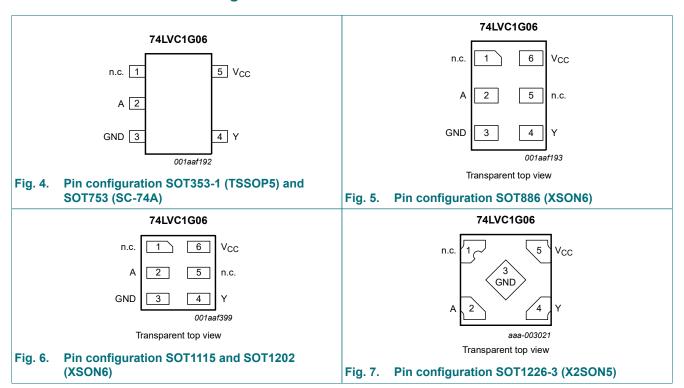


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## 6. Pinning information

### 6.1. Pinning



## 6.2. Pin description

Table 3. Pin description

Symbol	Pin	Pin			
	TSSOP5 and X2SON5	XSON6			
n.c.	1	1	not connected		
A	2	2	data input		
GND	3	3	ground (0 V)		
Υ	4	4	data output		
n.c.	-	5	not connected		
V <sub>CC</sub>	5	6	supply voltage		

## 7. Functional description

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

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

Input	Output
A	Υ
L	Z
Н	L

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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 <sub>CC</sub>	supply voltage			-0.5	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V		-50	-	mA
VI	input voltage		[1]	-0.5	+6.5	V
I <sub>OK</sub>	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V		-	±50	mA
Vo	output voltage	Active mode and Power-down mode	[1]	-0.5	+6.5	V
I <sub>O(sink/source)</sub>	output sink or source current	$V_O = 0 V \text{ to } V_{CC}$		-	±50	mA
I <sub>CC</sub>	supply current			-	+100	mA
I <sub>GND</sub>	ground current			-100	-	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.

For SOT753 (SC-74A) package: Ptot derates linearly with 3.8 mW/K above 85 °C.

For SOT886 (XSON6) package:  $P_{tot}$  derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package:  $\mathrm{P_{tot}}$  derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package:  $P_{tot}$  derates linearly with 3.3 mW/K above 74 °C.

For SOT1226-3 (X2SON5) package: Ptot derates linearly with 3.0 mW/K above 67 °C.

# 9. Recommended operating conditions

#### Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		1.65	-	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	Active mode	0	-	5.5	V
		Power-down mode; V <sub>CC</sub> = 0 V	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	-	-	20	ns/V
		V <sub>CC</sub> = 2.7 V to 5.5 V	-	-	10	ns/V

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<sup>[2]</sup> For SOT353-1 (TSSOP5) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

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## 10. Static characteristics

**Table 7. Static characteristics** 

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

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65 × V <sub>CC</sub>	-	-	0.65 × V <sub>CC</sub>	-	V
	voltage	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
$V_{IL}$	LOW-level input	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35 × V <sub>CC</sub>	-	0.35 × V <sub>CC</sub>	V
	voltage	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	-	-	0.3 × V <sub>CC</sub>	-	0.3 × V <sub>CC</sub>	V
$V_{OL}$	LOW-level output	$V_I = V_{IH}$ or $V_{IL}$						
volt	voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	-	-	0.10	-	0.10	V
		$I_{O}$ = 4 mA; $V_{CC}$ = 1.65 V	-	-	0.45	-	0.70	V
		$I_{O}$ = 8 mA; $V_{CC}$ = 2.3 V	-	-	0.30	-	0.45	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	-	0.40	-	0.60	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	-	0.80	V
		I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V	-	-	0.55	-	0.80	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	-	±1	μΑ
I <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	±0.1	±2	-	±2	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	±2	-	±2	μΑ
I <sub>CC</sub>	supply current	V <sub>I</sub> = 5.5 V or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 1.65 V to 5.5 V	-	0.1	4	-	4	μΑ
Δl <sub>CC</sub>	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 2.3 \text{ V} \text{ to 5.5 V}; \text{ per pin}$	-	5	500	-	500	μΑ
Cı	input capacitance	$V_{CC}$ = 3.3 V; $V_I$ = GND to $V_{CC}$	-	5	-	-	-	pF

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

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# 11. Dynamic characteristics

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

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 9.

Symbol	Parameter	Conditions	-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Typ [1]	Max	Min	Max	
t <sub>pd</sub>	propagation delay	A to Y; see <u>Fig. 8</u> [2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	3	6.5	1.0	8.5	ns
	V <sub>CC</sub> = 2.3 V to 2.7 V		0.5	1.9	4	0.5	5.5	ns
		V <sub>CC</sub> = 2.7 V	0.5	2.5	4.5	0.5	6	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.5	2.3	4	0.5	5.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.5	1.7	3	0.5	4	ns
C <sub>PD</sub>	power dissipation capacitance	$V_{I} = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3]	-	14	-	-	-	pF

- Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.
- $t_{pd}$  is the same as  $t_{PLZ}$  and  $t_{PZL}$ .  $C_{PD}$  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;

 $f_o$  = output frequency in MHz;

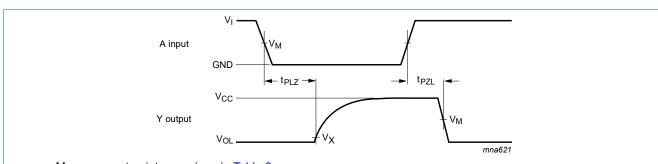
C<sub>L</sub> = output load capacitance in pF;

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

N = number of inputs switching;

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

### 11.1. Waveforms and test circuit



Measurement points are given in Table 9.

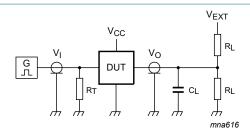
V<sub>OL</sub> is the typical output voltage level that occurs with the output load.

The input A to output Y propagation delay times

**Table 9. Measurement points** 

Supply voltage	Input	Output		
V <sub>CC</sub>	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	
1.65 V to 1.95 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	
2.3 V to 2.7 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	
2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	
3.0 V to 3.6 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	
4.5 V to 5.5 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	

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Test data is given in Table 10.

Definitions test circuit:

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

 $C_L$  = Load capacitance including jig and probe capacitance;

R<sub>T</sub> = Termination resistance should be equal to output impedance Z<sub>o</sub> of the pulse generator;

 $V_{\text{EXT}}$  = External voltage for measuring switching times.

### Fig. 9. Test circuit for measuring switching times

#### Table 10. Test data

Supply voltage	Input		Load		V <sub>EXT</sub>
V <sub>CC</sub>	V <sub>I</sub>	$t_r = t_f$	CL	R <sub>L</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	1 kΩ	2 × V <sub>CC</sub>
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	2 × V <sub>CC</sub>
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	6 V
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	6 V
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	2 × V <sub>CC</sub>

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# 12. Package outline

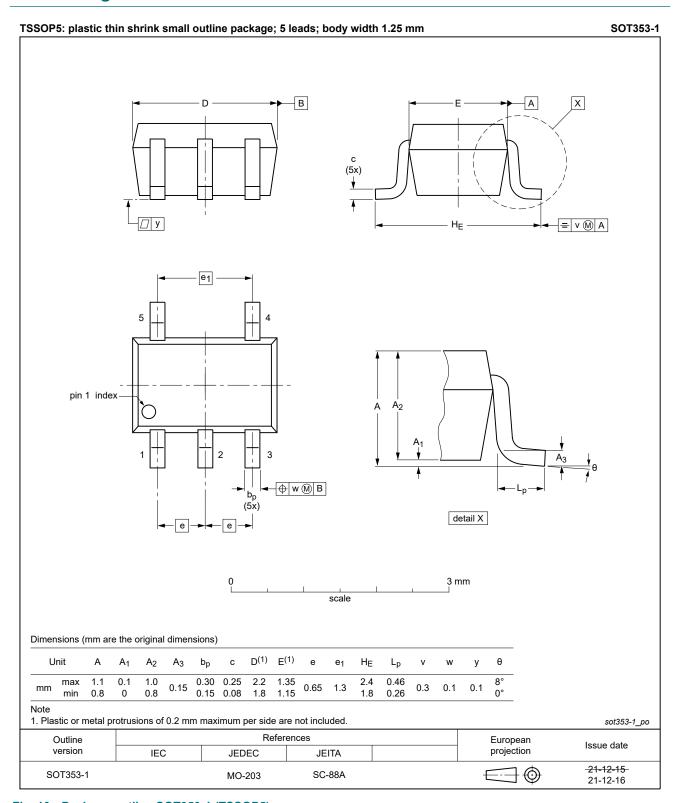


Fig. 10. Package outline SOT353-1 (TSSOP5)

### Inverter with open-drain output

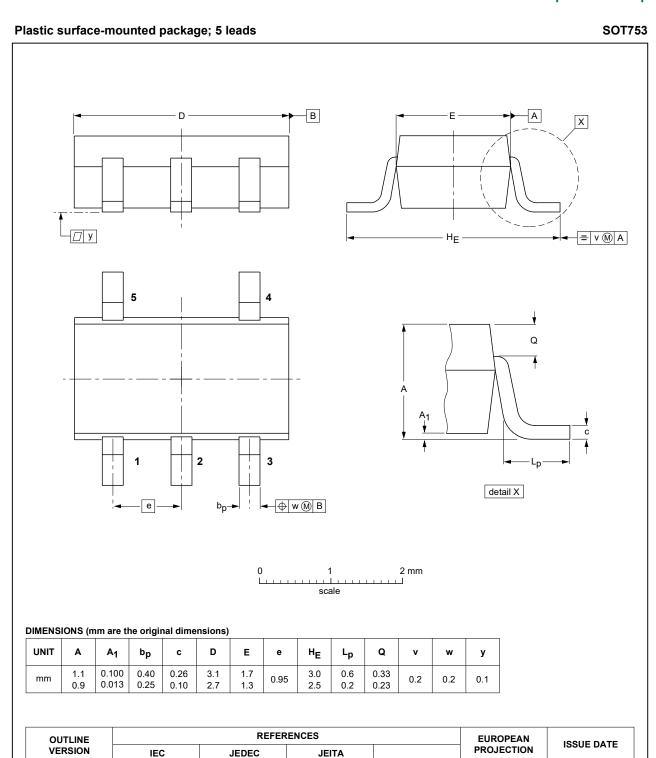


Fig. 11. Package outline SOT753 (SC-74A)

SOT753

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SC-74A

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## Inverter with open-drain output

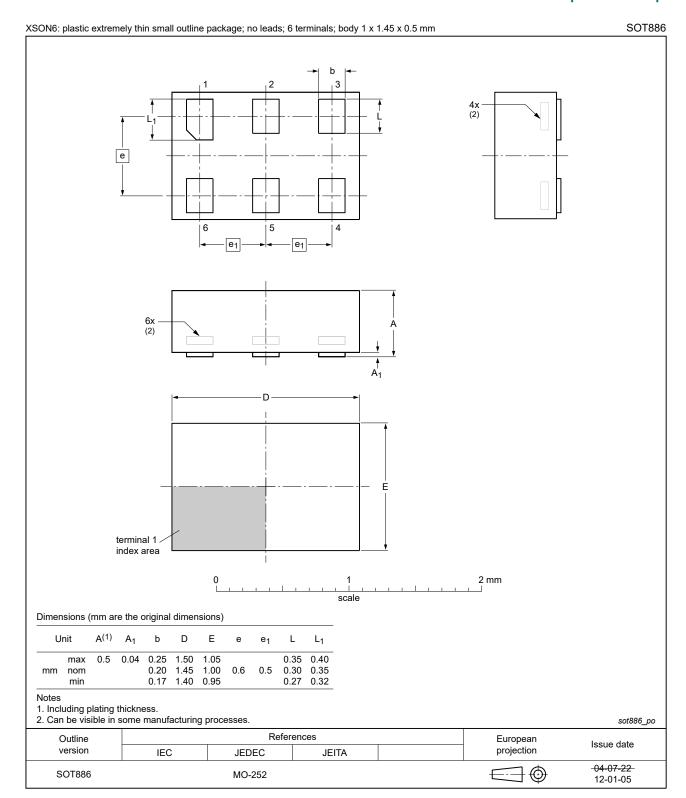


Fig. 12. Package outline SOT886 (XSON6)

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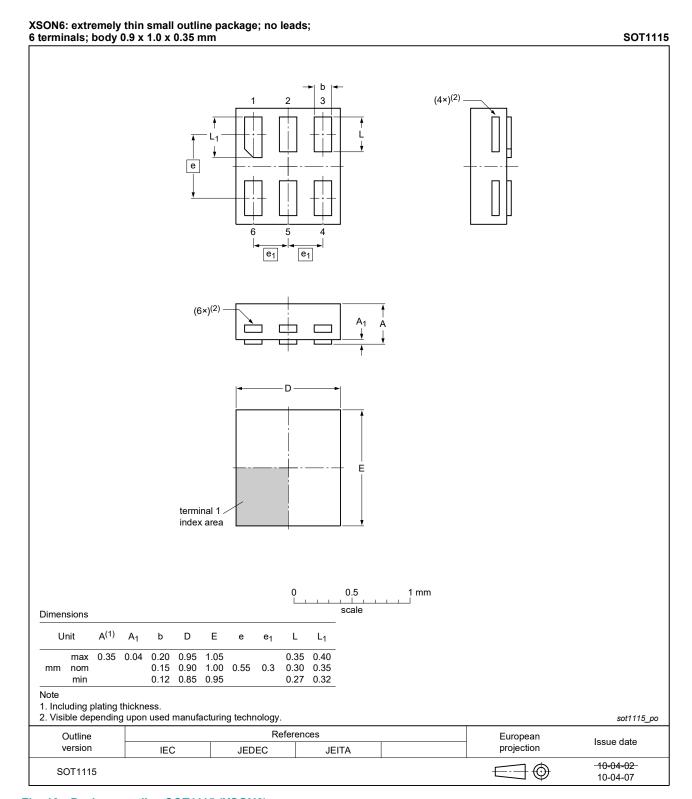


Fig. 13. Package outline SOT1115 (XSON6)

#### Inverter with open-drain output

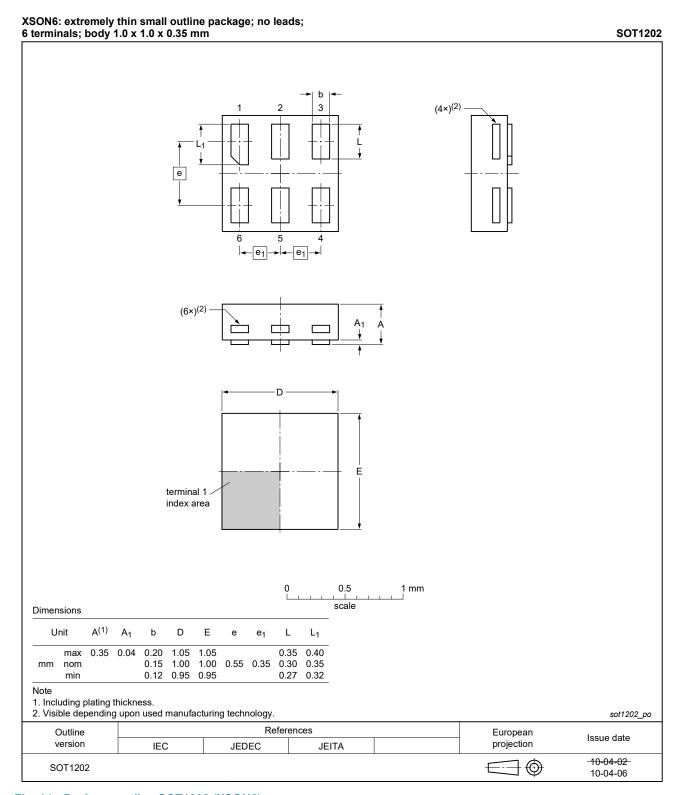


Fig. 14. Package outline SOT1202 (XSON6)

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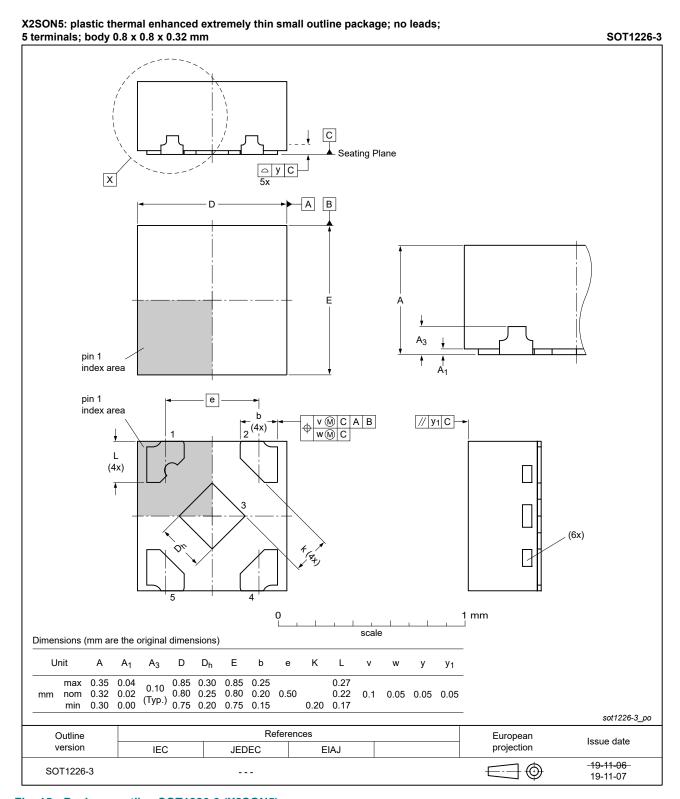


Fig. 15. Package outline SOT1226-3 (X2SON5)

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## 13. Abbreviations

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

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

# 14. Revision history

### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes					
74LVC1G06 v.15	20230804	Product data sheet	-	74LVC1G06 v.4					
Modifications:	Section 2: ES	SD specification updated a	ccording to the late	st JEDEC standard.					
74LVC1G06 v.14	20220210	Product data sheet	-	74LVC1G06 v.13					
Modifications:	• <u>Fig. 10</u> : Pack	Fig. 10: Package outline drawing for SOT353-1 (TSSOP5) has changed.							
74LVC1G06 v.13	20210924	Product data sheet	-	74LVC1G06 v.12					
Modifications:	<ul><li>SOT1226 (X2</li><li>Type number</li></ul>	<ul> <li>SOT1226 (X2SON5) package changed to SOT1226-3 (X2SON5) package.</li> <li>Type number 74LVC1G06GF (SOT891) removed.</li> </ul>							
74LVC1G06 v.12	20180522	Product data sheet	-	74LVC1G06 v.11					
Modifications:	of Nexperia.								
74LVC1G06 v.11	20161128	Product data sheet	-	74LVC1G06 v.10					
Modifications:		maximum limits for leakag -state output current parar		ly current have changed.					
74LVC1G06 v.10	20120629	Product data sheet	-	74LVC1G06 v.9					
Modifications:		umber 74LVC1G06GX (Sine drawing of SOT886 (F	,						
74LVC1G06 v.9	20111207	Product data sheet	-	74LVC1G06 v.8					
Modifications:	Legal pages	updated.							
74LVC1G06 v.8	20101026	Product data sheet	-	74LVC1G06 v.7					
74LVC1G06 v.7	20070712	Product data sheet	-	74LVC1G06 v.6					
74LVC1G06 v.6	20060912	Product data sheet	-	74LVC1G06 v.5					
74LVC1G06 v.5	20040907	Product specification	-	74LVC1G06 v.4					
74LVC1G06 v.4	20030303	Product specification	-	74LVC1G06 v.3					
74LVC1G06 v.3	20020529	Product specification	-	74LVC1G06 v.2					
74LVC1G06 v.2	20010405	Product specification	-	74LVC1G06 v.1					
74LVC1G06 v.1	20001121	Product specification	-	-					

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### Inverter with open-drain output

## 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.
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### Inverter with open-drain output

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