Inverters with open-drain outputs Rev. 8 — 12 December 2016

Product data sheet

General description 1.

The 74LVC2G06 provides two inverting buffers.

The output of this device is an open drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

Input can be driven from either 3.3 V or 5 V devices. This feature allows the use of this device in a mixed 3.3 V and 5 V environment.

Schmitt trigger action at all inputs makes the circuit tolerant for slower input rise and fall time.

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

Features and benefits 2.

- Wide supply voltage range from 1.65 V to 5.5 V
- 5 V tolerant input/output for interfacing with 5 V logic
- 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)
 - ◆ JESD8-B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - ◆ HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- -24 mA output drive ($V_{CC} = 3.0 \text{ V}$)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Inputs accept voltages up to 5 V
- Multiple package options
- 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			
74LVC2G06GW	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363			
74LVC2G06GV	–40 °C to +125 °C	TSOP6	plastic surface-mounted package (TSOP6); 6 leads	SOT457			
74LVC2G06GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886			
74LVC2G06GF	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 \times 1 \times 0.5 mm	SOT891			
74LVC2G06GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $0.9 \times 1.0 \times 0.35$ mm	SOT1115			
74LVC2G06GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 \times 1.0 \times 0.35 mm	SOT1202			
74LVC2G06GX	-40 °C to +125 °C	X2SON6	plastic thermal extremely thin small outline package; no leads; 6 terminals; body 1 \times 0.8 \times 0.35 mm	SOT1255			

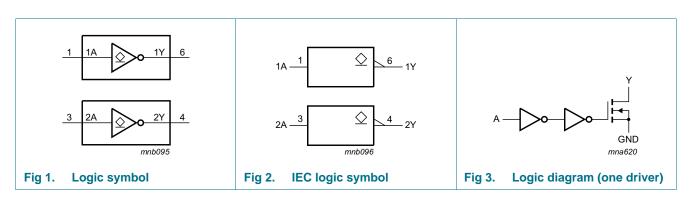
4. Marking

Table 2. Marking

Type number	Marking code[1]
74LVC2G06GW	V6
74LVC2G06GV	V06
74LVC2G06GM	V6
74LVC2G06GF	V6
74LVC2G06GN	V6
74LVC2G06GS	V6
74LVC2G06GX	V6

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

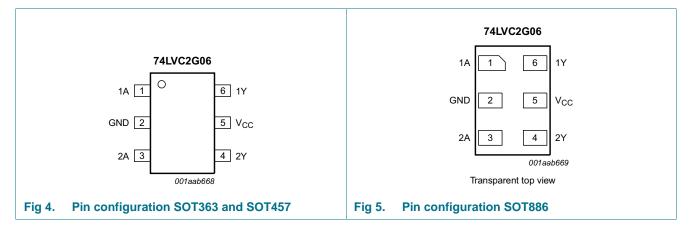
5. Functional diagram



Inverters with open-drain outputs

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

Inverters with open-drain outputs

7. Functional description

Table 4. Function table[1]

Input nA	Output nY
L	Z
Н	L

^[1] H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state.

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 _{CC}	supply voltage			-0.5	+6.5	V
I _{IK}	input clamping current	V _I < 0 V		-50	-	mA
V _I	input voltage		<u>[1]</u>	-0.5	+6.5	V
I _{OK}	output clamping current	V _O < 0 V		-50	-	mA
Vo	output voltage	Active mode	<u>[1]</u>	-0.5	+6.5	V
		Power-down mode	[1][2]	-0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } 6.5 V$		-	50	mA
I _{CC}	supply current			-	100	mA
I_{GND}	ground current			-100	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	<u>[3]</u>	-	250	mW

^[1] The minimum 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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	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 _{CC} = 0 V	0	-	5.5	V
T _{amb}	ambient temperature		-40	-	+125	°C
		V _{CC} = 1.65 V to 2.7 V	-	-	20	ns/V
	fall rate	V _{CC} = 2.7 V to 5.5 V	-	-	10	ns/V

^[2] When $V_{CC} = 0 \text{ V}$ (Power-down mode), the output voltage can be 5.5 V in normal operation.

^[3] For SC-88 and SC-74 packages: above 87.5 $^{\circ}$ C the value of P_{tot} derates linearly with 4.0 mW/K. For XSON6 and X2SON6 packages: above 118 $^{\circ}$ C the value of P_{tot} derates linearly with 7.8 mW/K.

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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		Min	Typ[1]	Max	Unit
$T_{amb} = -40$	0 °C to +85 °C						
V _{IH}	HIGH-level input	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		$0.65 \times V_{CC}$	-	-	V
	voltage	V _{CC} = 2.3 V to 2.7 V		1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V		2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V		$0.7 \times V_{CC}$	-	-	V
V _{IL}	LOW-level input	V _{CC} = 1.65 V to 1.95 V		-	-	$0.35 \times V_{CC}$	V
	voltage	V _{CC} = 2.3 V to 2.7 V		-	-	0.7	V
	V _{CC} = 2.7 V to 3.6 V		-	-	0.8	V	
		V _{CC} = 4.5 V to 5.5 V		-	-	$0.3 \times V_{CC}$	V
V _{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}					
	voltage	$I_O = 100 \mu A; V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$		-	-	0.1	V
		I _O = 4 mA; V _{CC} = 1.65 V		-	-	0.45	V
		$I_{O} = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$		-	-	0.3	V
		I_{O} = 12 mA; V_{CC} = 2.7 V		-	-	0.4	V
		$I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$		-	-	0.55	V
		$I_{O} = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$		-	-	0.55	V
l ₁	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	[2]	-	±0.1	±1	μΑ
I _{OZ}	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	μΑ
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$		-	±0.1	±2	μΑ
I _{CC}	supply current	$V_I = 5.5 \text{ V or GND}; I_O = 0 \text{ A};$ $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$		-	0.1	4	μА
ΔI_{CC}	additional supply current	ver pin; $V_I = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$; $I_{CC} = 2.3 \text{ V}$ to 5.5 V		-	5	500	μΑ
Cı	input capacitance			-	2.5	-	pF

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 Table 7.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
T _{amb} = -40	0 °C to +125 °C		1			
V _{IH}	HIGH-level input	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	V
	voltage	V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	$0.7 \times V_{CC}$	-	-	V
V _{IL}	LOW-level input	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	V
	voltage	V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	$0.3 \times V_{CC}$	V
V _{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	I_{O} = 100 μ A; V_{CC} = 1.65 V to 5.5 V	-	-	0.10	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.70	V
		$I_{O} = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.45	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.60	V
		$I_{O} = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.80	V
		$I_{O} = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.80	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	±1	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±2	μΑ
I _{OFF}	power-off leakage current	akage V_I or $V_O = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$		-	±2	μΑ
lcc	supply current	V_I = 5.5 V or GND; I_O = 0 A; V _{CC} = 1.65 V to 5.5 V		4	μΑ	
Δl _{CC}	additional supply current	per pin; $V_I = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$; $V_{CC} = 2.3 \text{ V}$ to 5.5 V	-	-	500	μΑ

^[1] All typical values are measured at T_{amb} = 25 °C.

^[2] These typical values are measured at V_{CC} = 3.3 V.

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11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 9.

Symbol	Parameter Conditions		-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation delay	nA to nY; see Figure 8						
		V _{CC} = 1.65 V to 1.95 V	1.0	3.2	6.5	1.0	8.2	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	2.0	3.9	0.5	4.9	ns
		V _{CC} = 2.7 V	1.0	2.6	4.2	1.0	5.3	ns
		V _{CC} = 3.0 V to 3.6 V	0.5	2.3	3.4	0.5	4.3	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	1.6	2.9	0.5	3.7	ns
C _{PD}	power dissipation capacitance	$V_I = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$	-	5.9	-	-	-	pF

- [1] 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.
- [2] t_{pd} is the same as t_{PLZ} and t_{PZL} .
- [3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

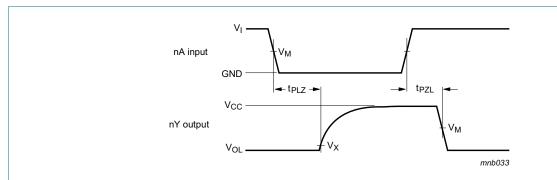
C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

12. Waveforms



Measurement points are given in Table 9.

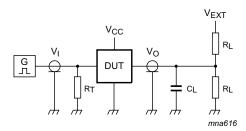
V_{OL} is the typical output voltage drop that occur with the output load.

Fig 8. The input (nA) to output (nY) propagation delays

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Table 9. Measurement points

Supply voltage	Input	Output	Output		
V _{CC}	V _M	V _M	V _X		
1.65 V to 1.95 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V		
2.3 V to 2.7 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V		
2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V		
3.0 V to 3.6 V	1.5 V	1.5 V	V _{OL} + 0.3 V		
4.5 V to 5.5 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.3 V		



Test data is given in <u>Table 10</u>.

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 the output impedance Z_0 of the pulse generator.

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

Fig 9. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	voltage Input Lo		Load	V _{EXT}	
V _{CC}	VI	t _r , t _f	CL	R_L	t _{PZL} , t _{PLZ}
1.65 V to 1.95 V	V _{CC}	≤ 2.0 ns	30 pF	1 kΩ	$2 \times V_{CC}$
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	2 × V _{CC}
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 _{CC}	≤ 2.5 ns	50 pF	500 Ω	2 × V _{CC}

13. Package outline

SOT363 Plastic surface-mounted package; 6 leads Α X = v (M) A ΗE ⊕ w M B е detail X scale **DIMENSIONS** (mm are the original dimensions) Α1 UNIT D Q Α С Ε ٧ e₁ H_{E} $L_{\mathbf{p}}$ w у max 0.25 0.30 0.25 0.10 1.35 1.15 2.2 2.0 0.45 1.1 2.2 0.65 0.1 0.8 0.20 1.8 0.15 0.15 REFERENCES EUROPEAN OUTLINE ISSUE DATE VERSION JEDEC **PROJECTION** IEC JEITA 04-11-08 SOT363 SC-88 \bigcirc

Fig 10. Package outline SOT363 (SC-88)

06-03-16

Plastic surface-mounted package (TSOP6); 6 leads

SOT457

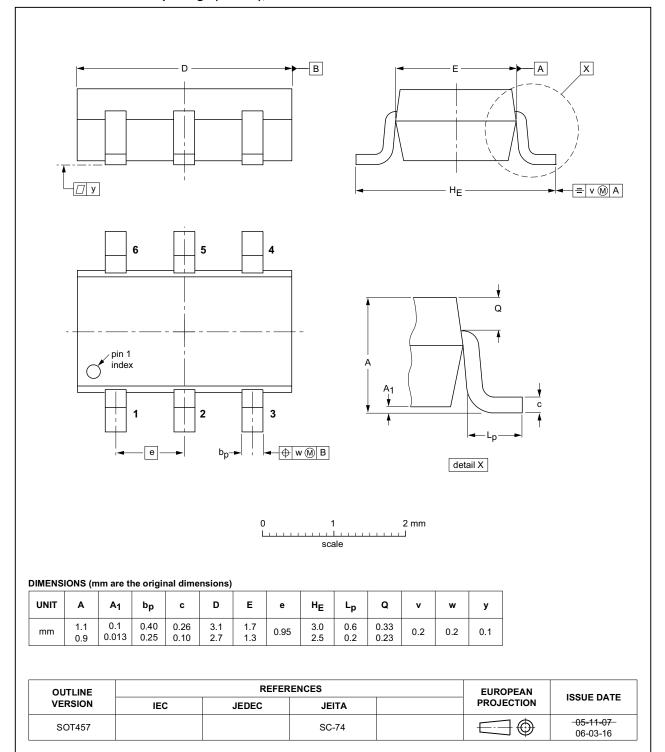


Fig 11. Package outline SOT457 (TSOP6)

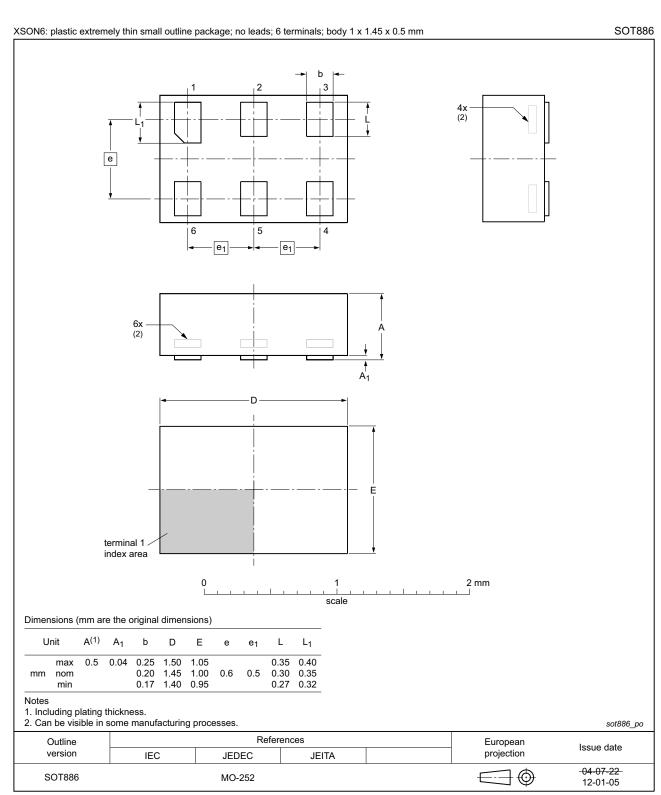


Fig 12. Package outline SOT886 (XSON6)

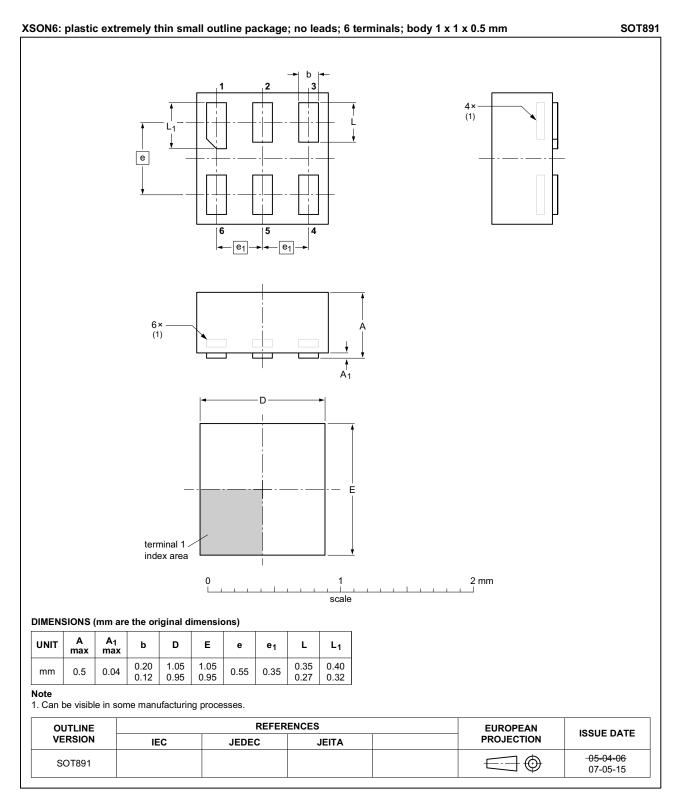


Fig 13. Package outline SOT891 (XSON6)

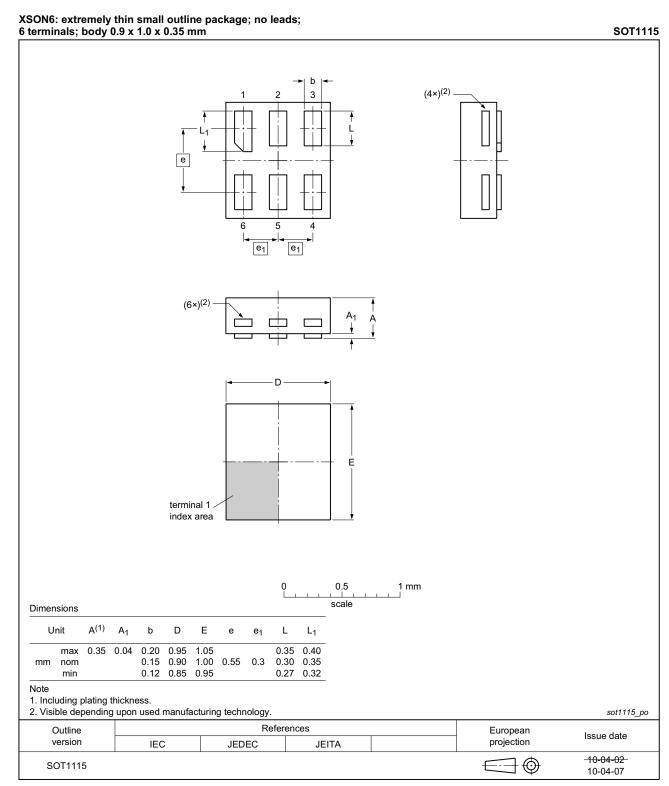


Fig 14. Package outline SOT1115 (XSON6)

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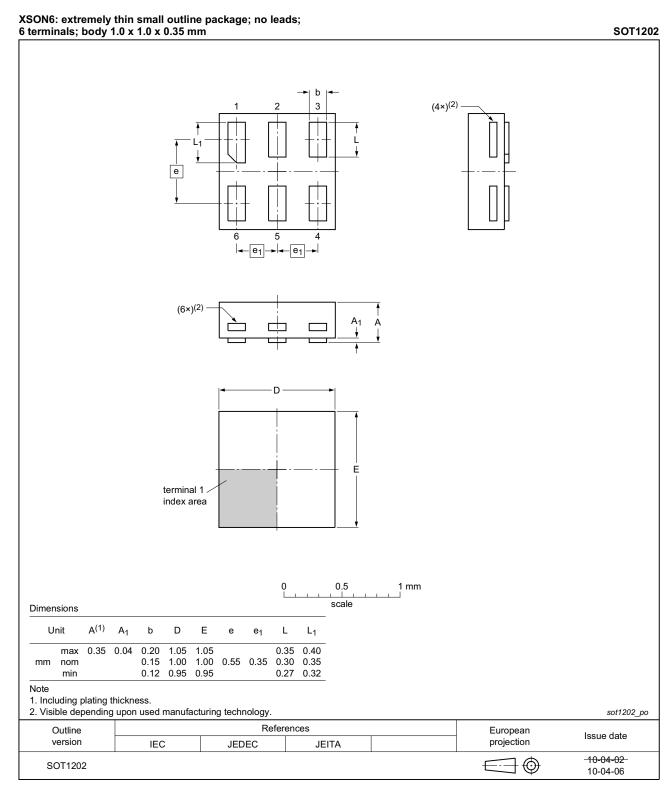


Fig 15. Package outline SOT1202 (XSON6)

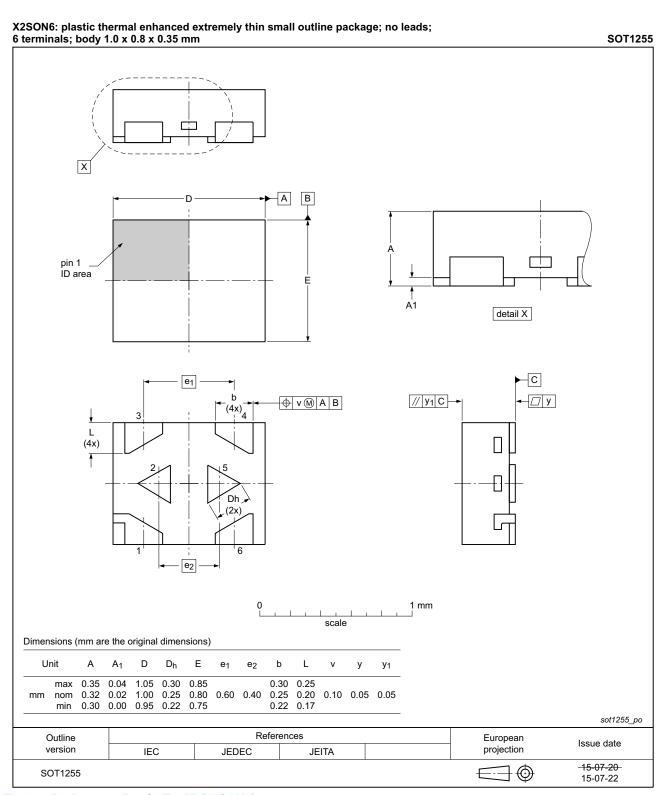


Fig 16. Package outline SOT1255 (X2SON6)

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14. Abbreviations

Table 11. Abbreviations

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

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC2G06 v.8	20161212	Product data sheet	-	74LVC2G06 v.7	
Modifications:	• <u>Table 7</u> : The	e maximum limits for leakag	e current and supply cu	irrent have changed.	
74LVC2G06 v.7	20150917	Product data sheet	-	74LVC2G06 v.6	
Modifications:	Added type	number 74LVC2G06GX (So	OT1255/X2SON6).		
74LVC2G06 v.6	20120704	Product data sheet	-	74LVC2G06 v.5	
Modifications:	Package ou	Package outline drawing of SOT886 (Figure 12) modified.			
74LVC2G06 v.5	20111130	Product data sheet	-	74LVC2G06 v.4	
Modifications:	Legal pages	Legal pages updated.			
74LVC2G06 v.4	20101028	Product data sheet	-	74LVC2G06 v.3	
74LVC2G06 v.3	20070521	Product data sheet	-	74LVC2G06 v.2	
74LVC2G06 v.2	20040910	Product specification	-	74LVC2G06 v.1	
74LVC2G06 v.1	20030825	Product specification	-	-	

Inverters with open-drain outputs

16. Legal information

16.1 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.

- [1] 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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Inverters with open-drain outputs

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16.4 Trademarks

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17. Contact information

For more information, please visit: http://www.nexperia.com

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Inverters with open-drain outputs

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