74LVC2G07

Buffers with open-drain outputs

Rev. 11 — 29 September 2021

Product data sheet

1. General description

The 74LVC2G07 is a dual buffer with open-drain outputs. 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 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.

2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- Overvoltage tolerant inputs 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)
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- -24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power dissipationLatch-up performance exceeds 250 mA
- Direct interface with TTL levels
- I_{OFF} circuitry provides partial Power-down mode operation
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



Buffers with open-drain outputs

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC2G07GW	-40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363
74LVC2G07GV	-40 °C to +125 °C	SC-74; TSOP6	plastic surface-mounted package; 6 leads	SOT457
74LVC2G07GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886
74LVC2G07GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115
74LVC2G07GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202
74LVC2G07GX	-40 °C to +125 °C	X2SON6	plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm	SOT1255-2

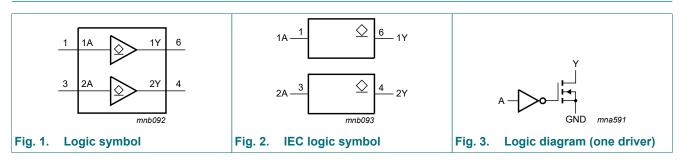
4. Marking

Table 2. Marking

Type number	Marking code[1]
74LVC2G07GW	V7
74LVC2G07GV	V07
74LVC2G07GM	V7
74LVC2G07GN	V7
74LVC2G07GS	V7
74LVC2G07GX	V7

^[1] 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	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

7. Functional description

Table 4. Function table

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

Input nA	Output nY
L	L
Н	Z

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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 _{CC}	supply voltage			-0.5	+6.5	V
I _{IK}	input clamping current	V _I < 0 V		-50	-	mA
V _I	input voltage		[1]	-0.5	+6.5	V
I _{OK}	output clamping current	V _O < 0 V		-50	-	mA
Vo	output voltage	Active mode	[1]	-0.5	+6.5	V
		Power-down mode; V _{CC} = 0 V	[1]	-0.5	+6.5	V
Io	output current	V _O = 0 V 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 °C to +125 °C	[2]	-	250	mW

^[1] The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed.

For SOT457 (SC-74; TSOP6) package: Ptot derates linearly with 4.1 mW/K above 89 °C.

For SOT886 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package: Ptot derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

For SOT1255-2 (X2SON6) package: Ptot derates linearly with 3.3 mW/K above 75 °C.

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
Δt/ΔV	input transition rise and	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] For SOT363 (SC-88) package: Ptot derates linearly with 3.7 mW/K above 83 °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	Min	Тур	Max	Unit
T _{amb} = -4	10 °C to +85 °C [1]					
V _{IH}	HIGH-level input	V _{CC} = 1.65 V to 1.95 V	0.65 x 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 x V _{CC}	-	-	V
V _{IL}	LOW-level input	V _{CC} = 1.65 V to 1.95 V	-	-	0.35 x 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 x V _{CC}	V
V _{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
VO	voltage	I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.10	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.30	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.40	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	-	0.55	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V [2]	-	±0.1	±1	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	±0.1	±2	μΑ
l _{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	μΑ
ΔI _{CC}	additional supply current	per pin; $V_I = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$; [2] $V_{CC} = 2.3 \text{ V}$ to 5.5 V	-	5	500	μΑ
Cı	input capacitance		-	2.5	-	pF

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -4	0 °C to +125 °C					
V _{IH}	HIGH-level input	V _{CC} = 1.65 V to 1.95 V	0.65 x 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 x V _{CC}	-	-	V
V_{IL}	LOW-level input	V _{CC} = 1.65 V to 1.95 V	-	-	0.35 x 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 x V _{CC}	V
V_{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	$I_O = 100 \mu A; V_{CC} = 1.65 V \text{ to } 5.5 V$	-	-	0.10	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.70	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.45	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.60	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.80	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	-	0.80	V
l _l	input leakage current	$V_{I} = 5.5 \text{ V or GND}; V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	-	±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	μA
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$	-	-	±2	μA
I _{CC}	supply current	V _I = 5.5 V or GND; I _O = 0 A; V _{CC} = 1.65 V to 5.5 V	-	-	4	μA
Δl _{CC}	additional supply current	per pin; $V_1 = V_{CC} - 0.6 \text{ V}$; $I_0 = 0 \text{ A}$; $V_{CC} = 2.3 \text{ V}$ 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 Fig. 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 Fig. 8 [2]						
		V _{CC} = 1.65 V to 1.95 V	1.0	3.5	6.7	1.0	8.4	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	2.4	4.3	0.5	5.5	ns
		V _{CC} = 2.7 V	1.0	2.3	4.2	1.0	5.3	ns
		V _{CC} = 3.0 V to 3.6 V	0.5	2.6	3.7	0.5	4.7	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	1.5	2.9	0.5	3.7	ns
C_{PD}	power dissipation capacitance	$V_I = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V} [3]$	-	6.5	-	-	-	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 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;

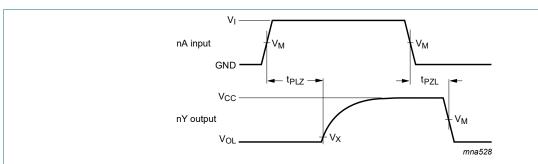
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11.1. Waveform and test circuit



Measurement points are given in Table 9.

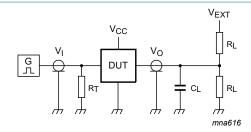
V_{OL} is the typical output voltage level that occur with the output load.

The input (nA) to output (nY) propagation delays

Table 9. Measurement points

Supply voltage	Input	Output		
V _{CC}	V _M	V _M	V_{χ}	
1.65 V to 1.95 V	0.5 x V _{CC}	0.5 x V _{CC}	V _{OL} + 0.15 V	
2.3 V to 2.7 V	0.5 x V _{CC}	0.5 x 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 x V _{CC}	0.5 x V _{CC}	V _{OL} + 0.3 V	

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Test data is given in Table 10.

Definitions for test circuit:

 R_L = Load resistance.

 $\ensuremath{C_L}$ = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to the output impedance Z_o 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	Input		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 x V _{CC}
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	2 x 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 x V _{CC}

Buffers with open-drain outputs

12. Package outline

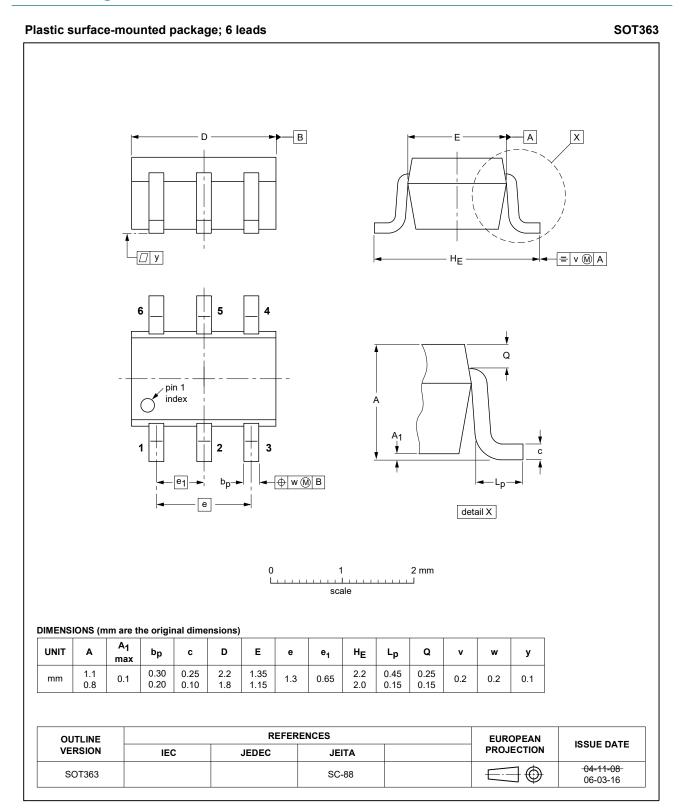


Fig. 10. Package outline SOT363 (SC-88)

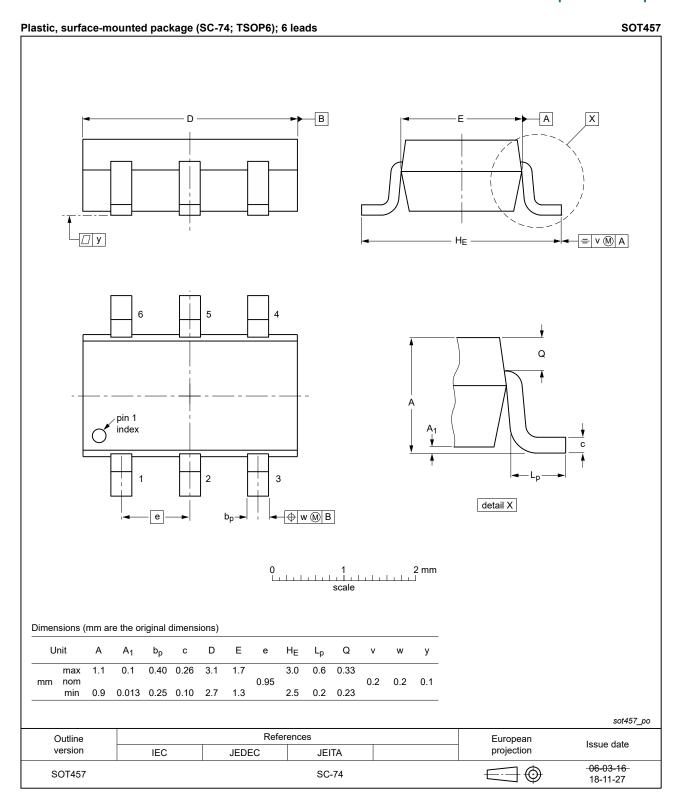


Fig. 11. Package outline SOT457 (SC-74; TSOP6)

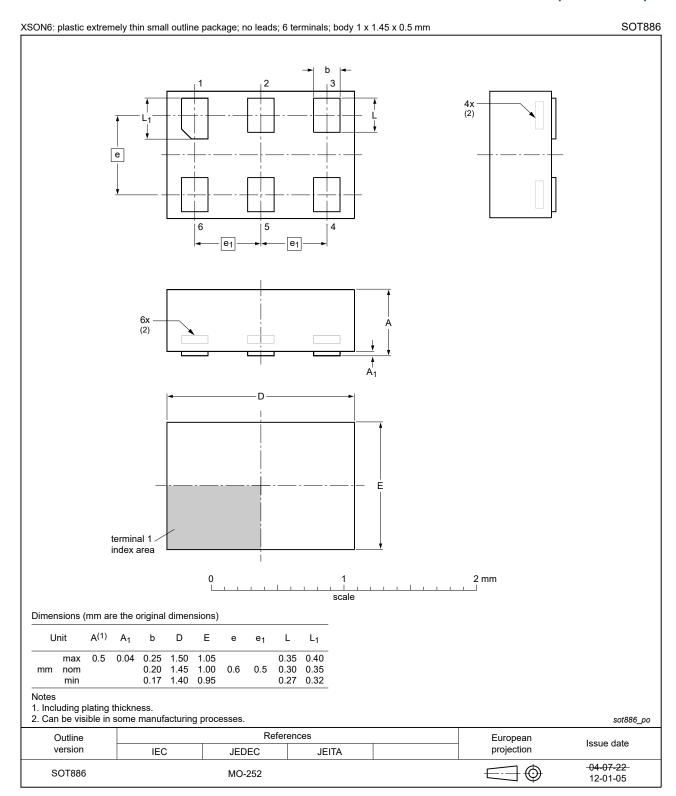


Fig. 12. Package outline SOT886 (XSON6)

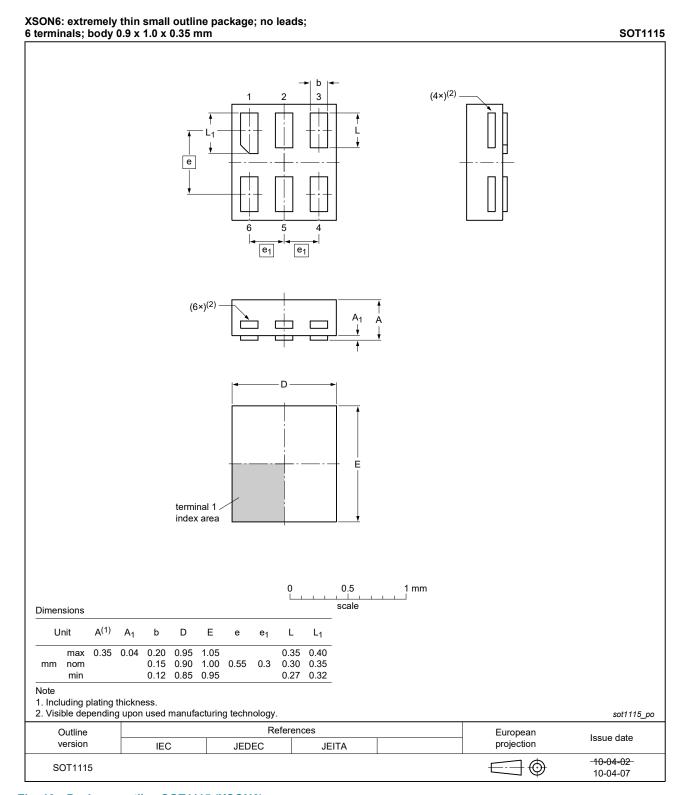


Fig. 13. Package outline SOT1115 (XSON6)

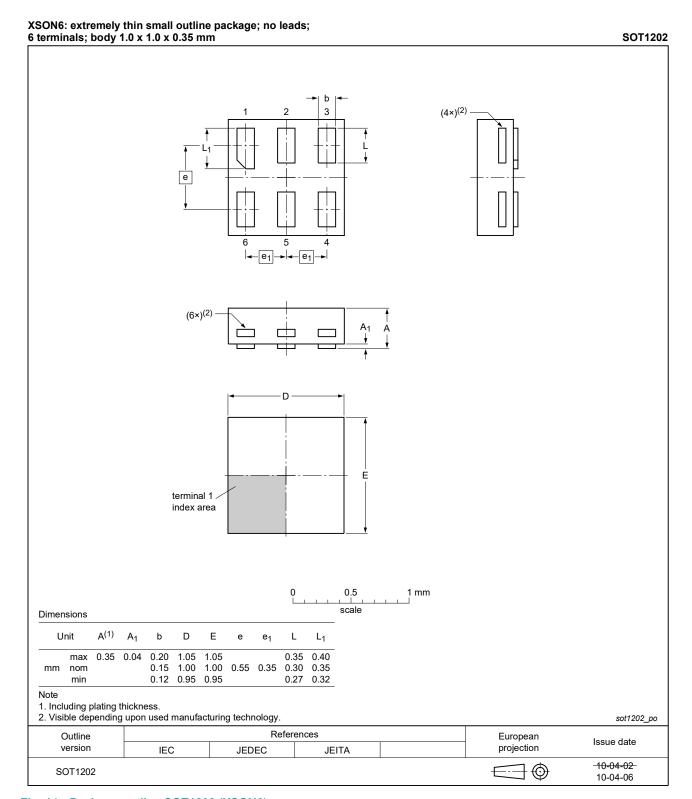


Fig. 14. Package outline SOT1202 (XSON6)

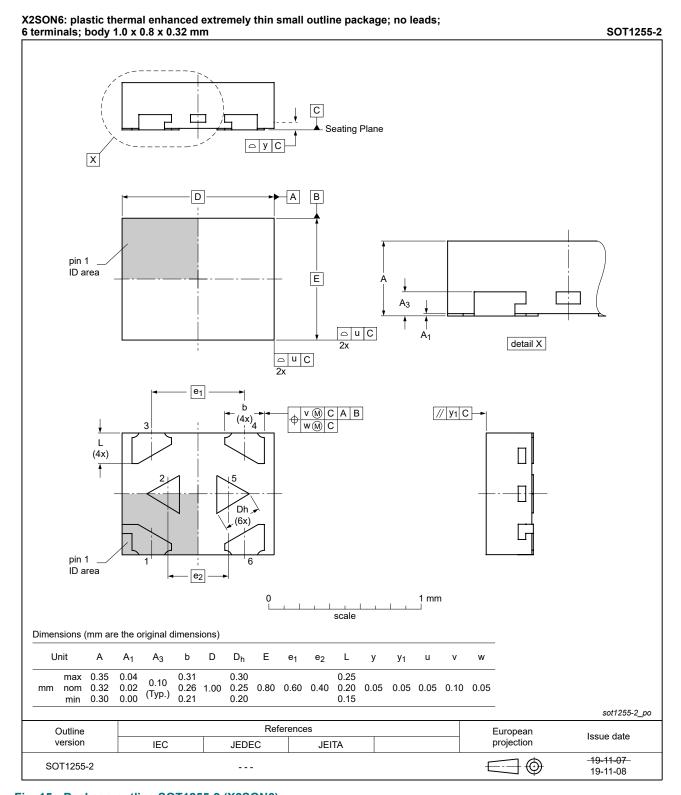


Fig. 15. Package outline SOT1255-2 (X2SON6)

Buffers with open-drain outputs

13. Abbreviations

Table 11. Abbreviations

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

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC2G07 v.11	20210929	Product data sheet	-	74LVC2G07 v.10	
Modifications:	 SOT1255 (X2 <u>Table 5</u>: Dera <u>Fig. 11</u>: Packa 	74LVC2G07GF (SOT891/XSC 2SON6) package changed to S ting values for P _{tot} total power age outline drawing SOT457 u I Section 2 updated.	OT1255-2 (X2SON dissipation updated	,	
74LVC2G07 v.10	20170821	Product data sheet	-	74LVC2G07 v.9	
Modifications:	Nexperia.	this data sheet has been redeave been adapted to the new c			
74LVC2G07 v.9	20161212	Product data sheet	-	74LVC2G07 v.8	
Modifications:	<u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC2G07 v.8	20150923	Product data sheet	-	74LVC2G07 v.7	
Modifications:	Added type number 74LVC2G07GX (SOT1255/X2SON6).				
74LVC2G07 v.7	20120704	Product data sheet	-	74LVC2G07 v.6	
Modifications:	Package outline drawing of SOT886 (Fig. 12) modified.				
74LVC2G07 v.6	20111130	Product data sheet	-	74LVC2G07 v.5	
Modifications:	Legal pages updated.				
74LVC2G07 v.5	20100806	Product data sheet	-	74LVC2G07 v.4	
74LVC2G07 v.4	20070521	Product data sheet	-	74LVC2G07 v.3	
74LVC2G07 v.3	20040908	Product data sheet	-	74LVC2G07 v.2	
74LVC2G07 v.2	20040319	Product data sheet	-	74LVC2G07 v.1	
74LVC2G07 v.1	20030825	Product data sheet	-	-	

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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.
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Product [short] data sheet	Production	This document contains the product specification.

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- [2] The term 'short data sheet' is explained in section "Definitions".
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