Buffers with open-drain outputs Rev. 12 — 24 January 2022

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 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
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- -24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power dissipation
- Direct interface with TTL levels
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 250 mA
- 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
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

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3. Ordering information

Table	1. Ordering informati	ion

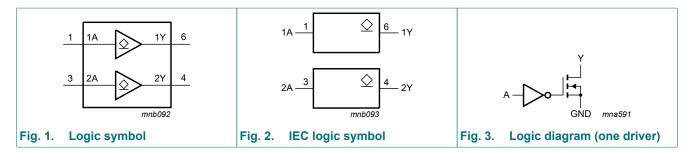
Type number	Package	Package						
	Temperature range	Name	Description	Version				
74LVC2G07GW	-40 °C to +125 °C	TSSOP6	plastic thin shrink small outline package; 6 leads; body width 1.25 mm	SOT363-2				
74LVC2G07GV	-40 °C to +125 °C	SC-74; TSOP6	plastic surface-mounted package; 6 leads	SOT457				
74LVC2G07GM	-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

Marking code[1]
V7
V07
V7
V7
V7
V7

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

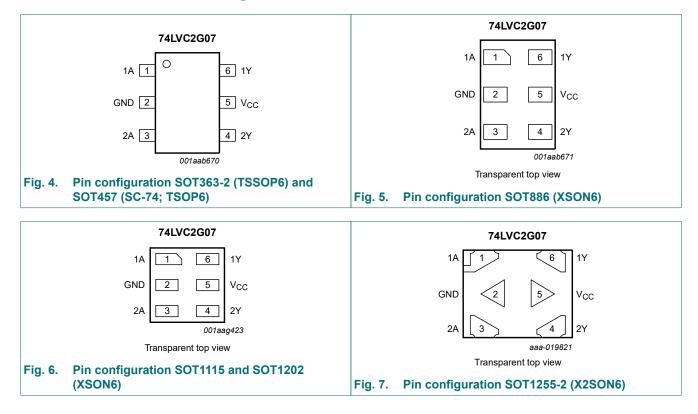
5. Functional diagram



74LVC2G07

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

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	Мах	Unit
V _{CC}	supply voltage			-0.5	+6.5	V
I _{IK}	input clamping current	V ₁ < 0 V		-50	-	mA
VI	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
I _O	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

The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed. [1] [2]

For SOT363-2 (TSSOP6) package: Ptot derates linearly with 3.7 mW/K above 83 °C.

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

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

10. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	Min	Тур <mark>[1]</mark>	Max	Unit
T _{amb} = -4	0 °C to +85 °C	-	<u> </u>			
VIH	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	-	-	$0.35 \times V_{CC}$	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 x V _{CC}	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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
l _l	input leakage current	$V_1 = 5.5 V \text{ or GND}; V_{CC} = 0 V \text{ to } 5.5 V$ [2]	-	±0.1	±1	μA
I _{OZ}	OFF-state output current	$V_I = V_{IH} \text{ or } V_{IL}; V_O = V_{CC} \text{ or GND};$ $V_{CC} = 5.5 \text{ V}$	-	±0.1	±2	μA
I _{OFF}	power-off leakage current	$V_1 \text{ or } V_0 = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$	-	±0.1	±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	-	0.1	4	μA
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	μA
CI	input capacitance		-	2.5	-	pF

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Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
T _{amb} = -4	0 °C to +125 °C					
VIH	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
	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 voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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	-	-	0.70	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_1 = 5.5 V or GND; V_{CC} = 0 V to 5.5 V	-	-	±1	μA
I _{OZ}	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{O} = V_{CC} \text{ or GND};$ $V_{CC} = 5.5 \text{ V}$	-	-	±2	μA
I _{OFF}	power-off leakage current	$V_1 \text{ or } V_0 = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$	-	-	±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
ΔI _{CC}	additional supply current	per pin; $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 2.3 \text{ V} \text{ to } 5.5 \text{ V}$	-	-	500	μA

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. [1]

[2]

 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). [3]

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

 f_i = input frequency in MHz;

 $f_o = output$ frequency in MHz;

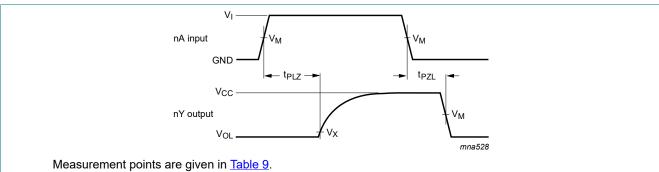
 C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11.1. Waveform and test circuit



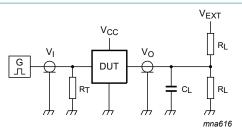
V_{OL} is the typical output voltage level that occur with the output load.

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

Table 9. Measurement points

Supply voltage	Input	Output	
V _{cc}	V _M	V _M	Vx
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 <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_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	RL	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

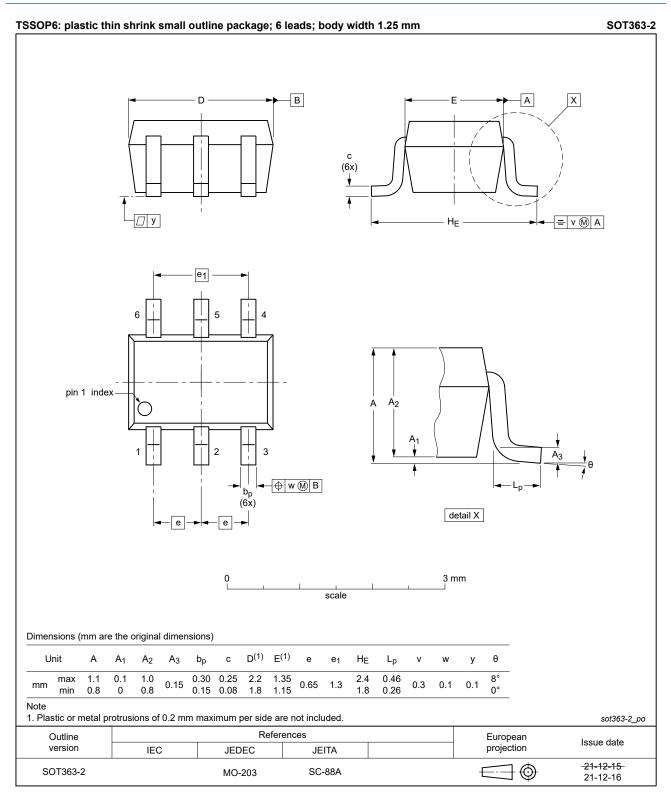


Fig. 10. Package outline SOT363-2 (TSSOP6)

SOT457

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Plastic, surface-mounted package (SC-74; TSOP6); 6 leads

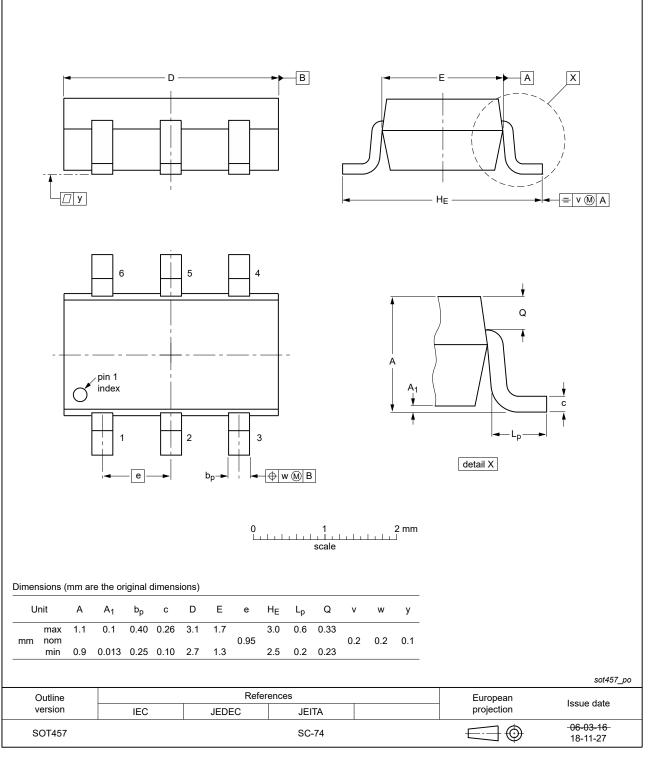


Fig. 11. Package outline SOT457 (SC-74; TSOP6)

Buffers with open-drain outputs

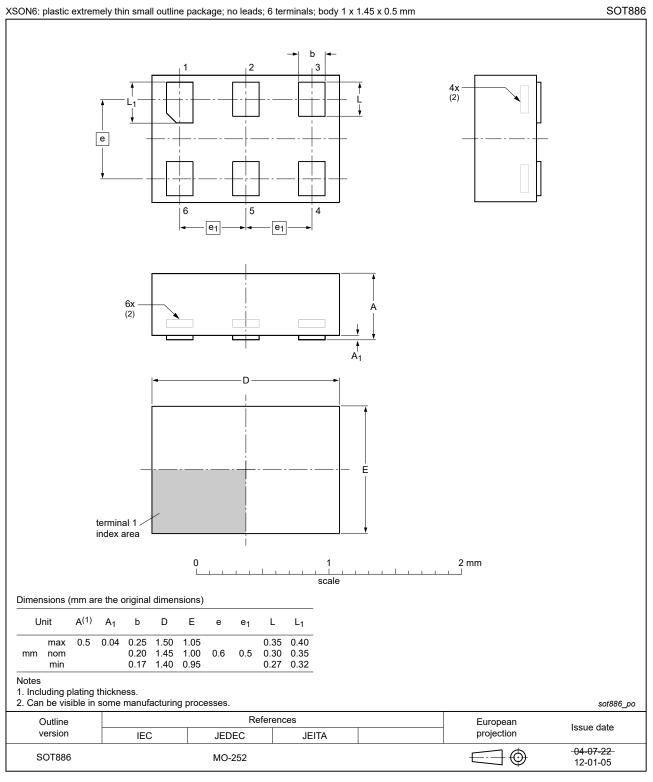
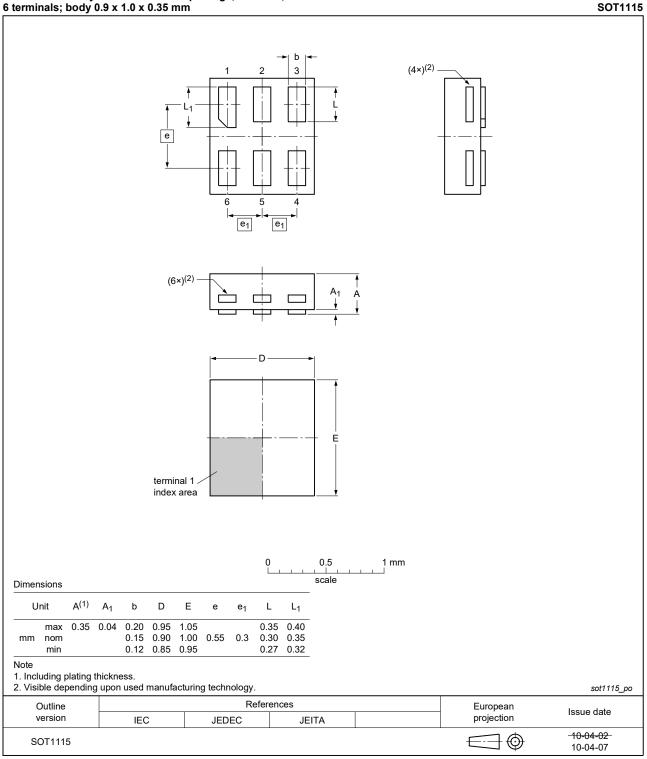


Fig. 12. Package outline SOT886 (XSON6)

Buffers with open-drain outputs

XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm





Buffers with open-drain outputs

XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm

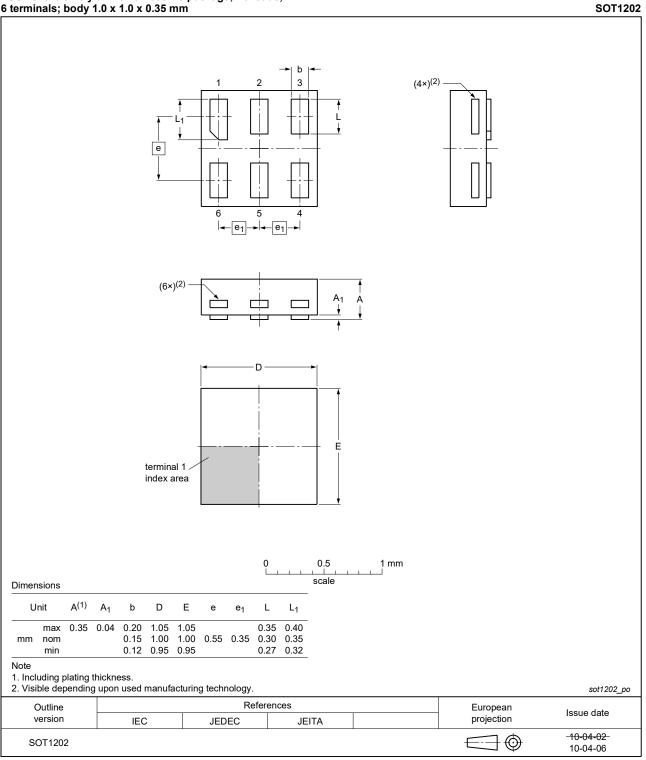
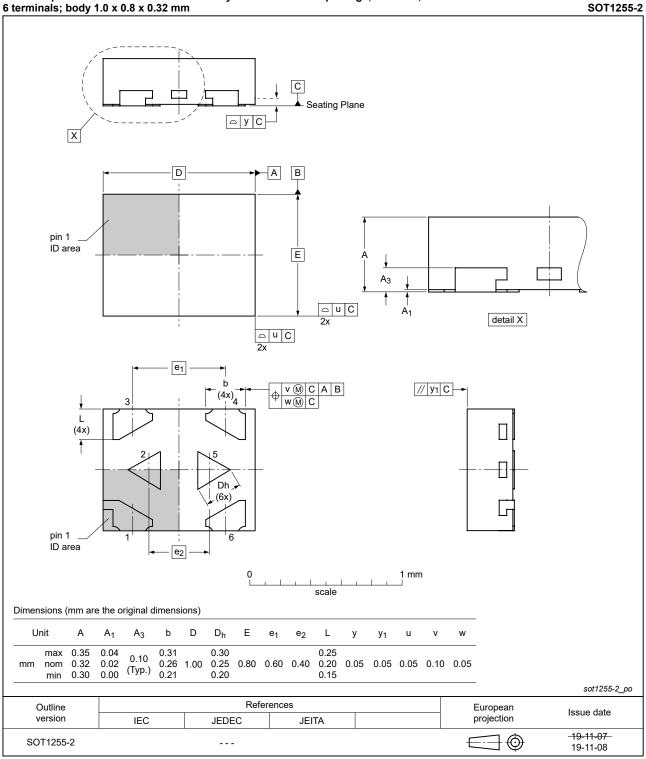


Fig. 14. Package outline SOT1202 (XSON6)

Buffers with open-drain outputs



X2SON6: plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 x 0.8 x 0.32 mm

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

13. 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

14. Revision history

Table 12. Revision history **Document ID Release date** Data sheet status Change notice Supersedes 74LVC2G07 v.12 20220124 Product data sheet 74LVC2G07 v.11 Modifications: • Package SOT363 (SC-88) changed to SOT363-2 (SC-88). 74I VC2G07 v.11 20210929 Product data sheet 74LVC2G07 v.10 Modifications: Type number 74LVC2G07GF (SOT891/XSON6) removed. SOT1255 (X2SON6) package changed to SOT1255-2 (X2SON6) package. Table 5: Derating values for Ptot total power dissipation updated. Fig. 11: Package outline drawing SOT457 updated. Section 1 and Section 2 updated. 74LVC2G07 v.10 Product data sheet 20170821 74LVC2G07 v.9 Modifications: The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. 74LVC2G07 v.9 20161212 Product data sheet 74LVC2G07 v.8 Modifications: • Table 7: 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 Product data sheet 74LVC2G07 v.6 20120704 Modifications: Package outline drawing of SOT886 (Fig. 12) modified. • 74LVC2G07 v.6 Product data sheet 74LVC2G07 v.5 20111130 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 Product data sheet 74LVC2G07 v.1 20040319 74LVC2G07 v.1 20030825 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.
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- [2] The term 'short data sheet' is explained in section "Definitions".
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