74LVC2G241-Q100

Dual buffer/line driver; 3-state

Rev. 3 — 22 November 2018

Product data sheet

1. General description

The 74LVC2G241-Q100 is a dual non-inverting buffer/line driver with 3-state outputs. The 3-state outputs are controlled by the output enable inputs 1OE and 2OE:

- A HIGH level at pin 1OE causes output 1Y to assume a high-impedance OFF-state.
- A LOW level at pin 2OE causes output 2Y to assume a high-impedance OFF-state.

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

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of the 74LVC2G241-Q100 as a translator in a mixed 3.3 V and 5 V environment.

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

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- 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:
 - MIL-STD-883, method 3015 exceeds 2000 V
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V (C = 200 pF; R = 0 Ω)
- ±24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power consumption
- · Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Inputs accept voltages up to 5 V



3. Ordering information

Table 1. Ordering information

Type number	Package	ackage					
	Temperature range	Name	Description	Version			
74LVC2G241DP-Q100	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2			
74LVC2G241DC-Q100	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1			

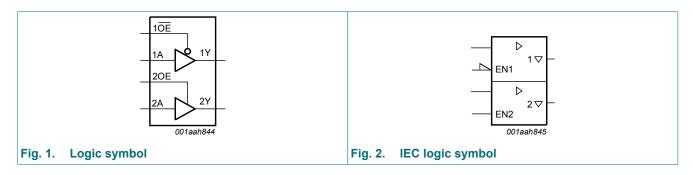
4. Marking

Table 2. Marking codes

Type number	Marking code[1]
74LVC2G241DP-Q100	V241
74LVC2G241DC-Q100	V41

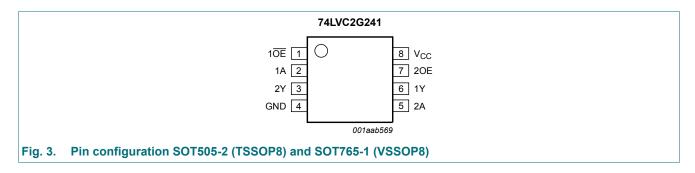
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
1 OE	1	output enable input (active LOW)
1A, 2A	2, 5	data input
GND	4	ground (0 V)
1Y, 2Y	6, 3	data output
20E	7	output enable input (active HIGH)
V _{CC}	8	supply voltage

7. Functional description

Table 4. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = don't \ care; \ Z = high-impedance \ OFF-state.$

Input		Output			
1 OE	1A	20E	2A	1Y	2Y
L	L	Н	L	L	L
L	Н	Н	Н	Н	Н
Н	Х	L	Х	Z	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	Max	Unit
V _{CC}	supply voltage			-0.5	+6.5	V
I _{IK}	input clamping current	V _I < 0 V		-50	-	mA
VI	input voltage		[1]	-0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V		-	±50	mA
V _O	output voltage	enable mode	[1]	-0.5	V _{CC} + 0.5	V
		disable mode	[1]	-0.5	+6.5	V
		Power-down mode	[1] [2]	-0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$		-	±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	[3]	-	300	mW

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

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

^[3] For TSSOP8 packages: above 55 °C the value of P_{tot} derates linearly at 2.5 mW/K. For VSSOP8 packages: above 110 °C the value of P_{tot} derates linearly at 8.0 mW/K.

9. Recommended operating conditions

Table 6. Operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		1.65	5.5	V
VI	input voltage		0	5.5	V
Vo	output voltage	V _{CC} = 1.65 V to 5.5 V; enable mode	0	V _{CC}	V
		V _{CC} = 1.65 V to 5.5 V; disable mode	0	5.5	V
		V _{CC} = 0 V; Power-down mode	0	5.5	V
T _{amb}	ambient temperature		-40	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.65 V to 2.7 V	-	20	ns/V
		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	Typ[1]	Max	Unit
T _{amb} = -4	40 °C to +85 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	٧
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	-	-	٧
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35 × V _{CC}	V
		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 × V _{CC}	V
V _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.1	٧
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	٧
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.3	٧
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	٧
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	-	0.55	V
V _{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	-	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.9	-	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	2.2	-	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.3	-	-	٧
		I _O = -32 mA; V _{CC} = 4.5 V	3.8	-	-	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	±1	μΑ
I _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = 5.5$ V or GND; $V_{CC} = 3.6$ V	-	±0.1	±2	μΑ
I _{OFF}	power-off leakage current	V_1 or $V_0 = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$	-	±0.1	±2	μΑ

Symbol	Parameter	ameter Conditions		Typ[1]	Max	Unit
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; $V_1 = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$; $V_{CC} = 2.3 \text{ V}$ to 5.5 V	-	5	500	μA
C _I	input capacitance		-	2	-	pF
T _{amb} = -4	10 °C to +125 °C					
V_{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	-	-	V
		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 × V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35 × V _{CC}	V
		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 × V _{CC}	V
V _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.1	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
V _{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	0.95	-	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.7	-	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	1.9	-	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.0	-	-	V
		I _O = -32 mA; V _{CC} = 4.5 V	3.4	-	-	V
I _I	input leakage current	$V_{I} = 5.5 \text{ V or GND}; V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	-	±1	μA
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = 5.5$ V or GND; $V_{CC} = 3.6$ V	-	-	±2	μA
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$	-	-	±2	μΑ
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	μΑ
ΔI _{CC}	additional supply current	per pin; $V_I = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$; $V_{CC} = 2.3 \text{ V}$ to 5.5 V	-	-	500	μΑ

^[1] 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. 7.

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. 4 [2]						
		V _{CC} = 1.65 V to 1.95 V	1.0	4.5	8.8	1.0	11.0	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	2.8	4.9	0.5	6.3	ns
		V _{CC} = 2.7 V	1.0	2.8	4.7	1.0	5.9	ns
		V _{CC} = 3.0 V to 3.6 V	0.5	2.6	4.3	0.5	5.4	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	2.1	3.7	0.5	4.6	ns
t _{en}	enable time	1 OE to 1Y; see <u>Fig. 5</u> [2]						
		V _{CC} = 1.65 V to 1.95 V	1.5	5.2	9.9	1.5	12.4	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	3.1	5.6	1.0	7.0	ns
		V _{CC} = 2.7 V	1.5	3.2	5.5	1.5	6.9	ns
		V _{CC} = 3.0 V to 3.6 V	0.5	2.7	4.7	0.5	5.9	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	2.0	3.8	0.5	4.8	ns
		2OE to 2Y; see Fig. 6 [2]						
		V _{CC} = 1.65 V to 1.95 V	1.0	4.3	8.8	1.0	11.0	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	2.7	4.7	1.0	5.9	ns
		V _{CC} = 2.7 V	1.0	2.7	4.6	1.0	5.8	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.5	4.1	1.0	5.1	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	1.9	3.3	0.5	4.1	ns
t _{dis}	disable time	1 OE to 1Y; see <u>Fig. 5</u> [2]						
		V _{CC} = 1.65 V to 1.95 V	1.0	3.2	11.6	1.0	14.1	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	2.2	5.8	0.5	7.6	ns
		V _{CC} = 2.7 V	1.0	2.8	4.6	1.0	5.9	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.6	4.4	1.0	5.7	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	2.0	3.4	0.5	4.6	ns
		2OE to 2Y; see Fig. 6 [2]						
		V _{CC} = 1.65 V to 1.95 V	1.0	3.6	12.5	1.0	15.2	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	2.0	5.2	0.5	6.9	ns
		V _{CC} = 2.7 V	1.5	3.2	4.9	1.5	6.3	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.8	4.2	1.0	5.4	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	2.0	3.3	0.5	4.4	ns
C _{PD}	power dissipation	per buffer; V_I = GND to V_{CC} [3]						
	capacitance	output enabled	-	20	-	-	-	pF
		output disabled	-	5	-	-	-	pF

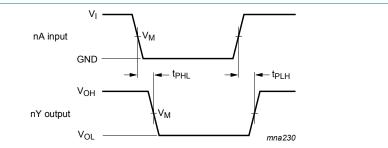
Typical values are measured at nominal V_{CC} and at T_{amb} = 25 °C.

 t_{pd} is the same as t_{PLH} and t_{PHL} ; t_{en} is the same as t_{PZH} and t_{PZL} ; t_{dis} is the same as t_{PLZ} and t_{PHZ} . t_{PD} is used to determine the dynamic power dissipation (t_{PD} in t_{PM}). $t_{PD} = t_{PD} \times t_{$

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

11.1. Waveforms and test circuit



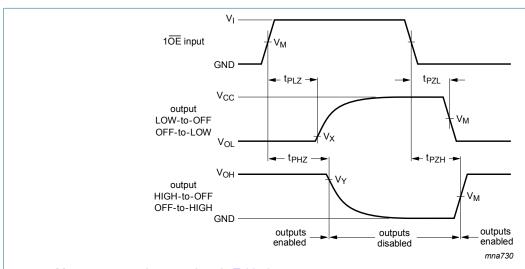
Measurement points are given in Table 9.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 4. The data input (nA) to output (nY) propagation delays

Table 9. Measurement points

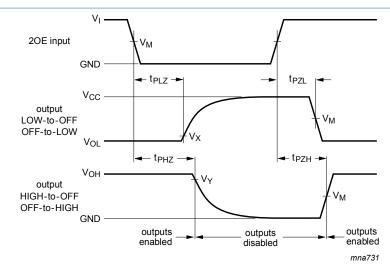
Supply voltage	Input	Output		
V _{CC}	V _M	V _M	V _X	V _Y
1.65 V to 1.95 V	0.5 x V _{CC}	0.5 x V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V
2.3 V to 2.7 V	0.5 x V _{CC}	0.5 x V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V
2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V
3.0 V to 3.6 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 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	V _{OH} - 0.3 V



Measurement points are given in <u>Table 9</u>.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

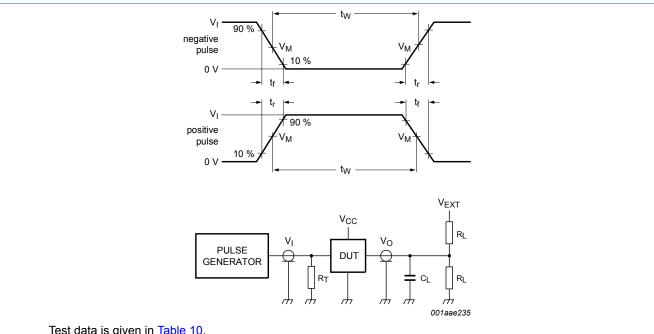
Fig. 5. Enable and disable times for input 1 OE



Measurement points are given in Table 9.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Enable and disable times for input 20E Fig. 6.



Test data is given in Table 10.

Definitions for test circuit:

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

 C_L = Load capacitance including jig and probe capacitance; R_L = Load resistance.

Test circuit for measuring switching times Fig. 7.

Table 10. Test data

Supply voltage	Input	Load		V _{EXT}		
	V _I	CL	R _L	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
1.65 V to 1.95 V	V _{CC}	30 pF	1 kΩ	open	GND	2 x V _{CC}
2.3 V to 2.7 V	V _{CC}	30 pF	500 Ω	open	GND	2 x V _{CC}
2.7 V	2.7 V	50 pF	500 Ω	open	GND	6 V
3.0 V to 3.6 V	2.7 V	50 pF	500 Ω	open	GND	6 V
4.5 V to 5.5 V	V _{CC}	50 pF	500 Ω	open	GND	2 x V _{CC}

12. Package outline

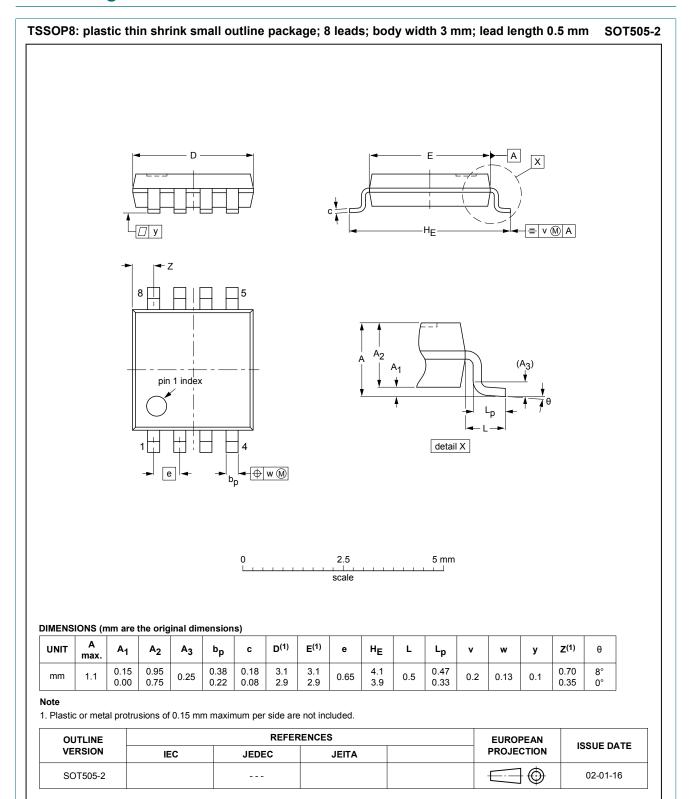


Fig. 8. Package outline SOT505-2 (TSSOP8)

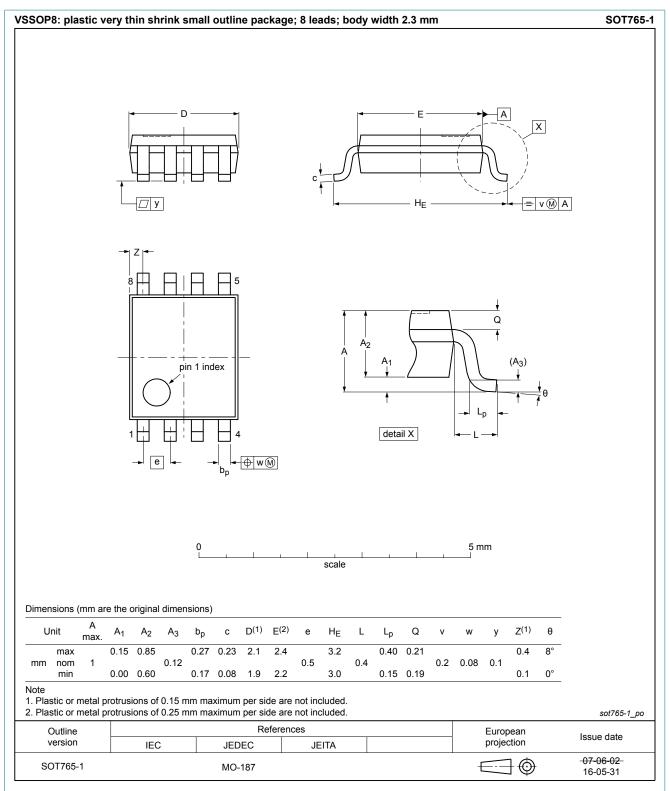


Fig. 9. Package outline SOT765-1 (VSSOP8)

Product data sheet

13. Abbreviations

Table 11. Abbreviations

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

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC2G241_Q100 v.3	20181122	Product data sheet	-	74LVC2G241_Q100 v.2	
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. 				
74LVC2G241_Q100 v.2	20161214	Product data sheet	-	74LVC2G241_Q100 v.1	
Modifications:	<u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC2G241_Q100 v.1	20130404	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.
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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For more information, please visit: http://www.nexperia.com
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