74LVC541A-Q100

Octal buffer/line driver with 5 V tolerant inputs/outputs; 3-state

Rev. 2 — 4 March 2013

Product data sheet

1. General description

The 74LVC541A-Q100 is an octal non-inverting buffer/line driver with 5 V tolerant inputs and outputs. The output enable inputs $\overline{\text{OE}}1$ and $\overline{\text{OE}}2$ control the 3-state outputs.

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.

Inputs can be driven from either 3.3~V or 5~V devices. When disabled, up to 5.5~V can be applied to the outputs. These features allow the use of these devices as translators in mixed 3.3~V and 5~V applications.

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
- 5 V tolerant inputs for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- Direct interface with TTL levels
- Complies with JEDEC standard:
 - ◆ JESD8-7A (1.65 V to 1.95 V)
 - ◆ JESD8-5A (2.3 V to 2.7 V)
 - ◆ JESD8-C/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)

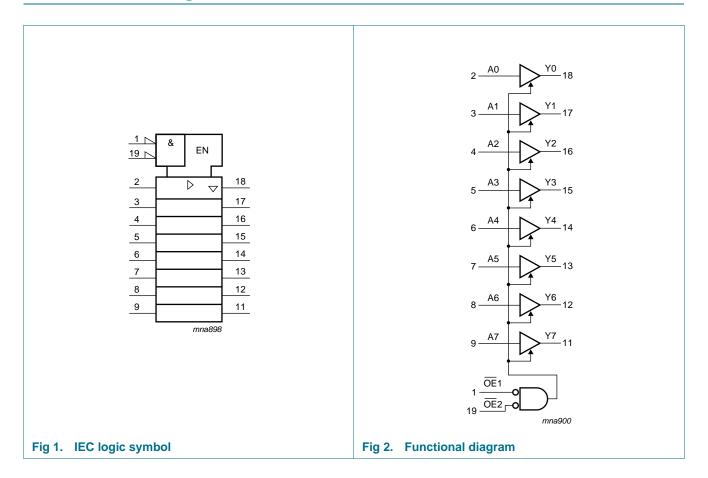


3. Ordering information

Table 1. Ordering information

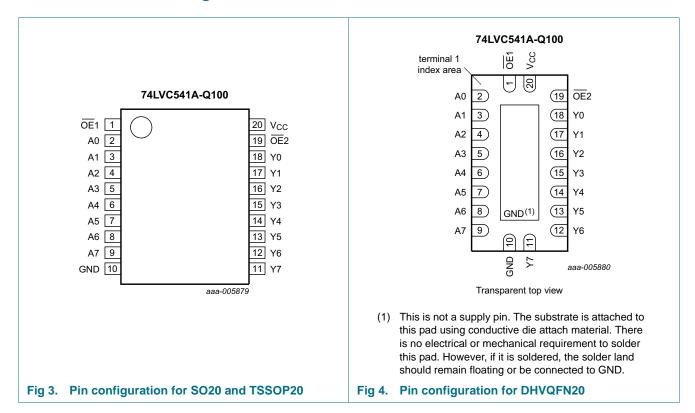
Type number	Package											
	Temperature range	Name	Description	Version								
74LVC541AD-Q100	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1								
74LVC541APW-Q100	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1								
74LVC541ABQ-Q100	–40 °C to +125 °C	DHVQFN20	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 \times 4.5 \times 0.85 mm	SOT764-1								

4. Functional diagram



5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
OE1	1	output enable input (active LOW)
A[0:7]	2, 3, 4, 5, 6, 7, 8, 9	data input
GND	10	ground (0 V)
Y[0:7]	18, 17, 16, 15, 14, 13, 12, 11	bus output
OE2	19	output enable input (active LOW)
V _{CC}	20	supply voltage

6. Functional description

Table 3. Functional table[1]

Input OE1		Output	
OE1	OE2	An	Yn
L	L	L	L
L	L	Н	Н
X	Н	X	Z
Н	X	Χ	Z

^[1] H = HIGH voltage level

L = LOW voltage level

7. Limiting values

Table 4. 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	+5.5	V
I_{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$	-	±50	mA
V_{O}	output voltage	output HIGH or LOW state	<u>[2]</u> –0.5	$V_{CC} + 0.5$	V
		output 3-state or power-down	<u>[2]</u> –0.5	+6.5	V
I _O	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		-60	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	<u>[3]</u> _	500	mW

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

X = don't care

Z = high-impedance OFF-state

^[2] The output voltage ratings may be exceeded if the output current ratings are observed.

^[3] For SO20 packages: above 70 °C the value of P_{tot} derates linearly with 8 mW/K. For TSSOP20 packages: above 60 °C the value of P_{tot} derates linearly with 5.5 mW/K. For DHVQFN20 packages: above 60 °C the value of P_{tot} derates linearly with 4.5 mW/K.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{CC}	supply voltage	voltage		-	3.6	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	output HIGH or LOW state	0	-	V_{CC}	V
		output 3-state	0	-	5.5	V
T _{amb}	ambient temperature		-40	-	+125	°C
$\Delta t/\Delta V$	input transition rise and fall	V _{CC} = 2.3 V to 2.7 V	0	-	20	ns/V
	rate	V _{CC} = 2.7 V to 3.6 V	0	-	10	ns/V

9. Static characteristics

Table 6. Static characteristics

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

	'			-				
Symbol	Parameter	Conditions	-40	°C to +8	35 °C	-40 °C to	o +125 °C	Uni
			Min	Typ[1]	Max	Min	Max	
V_{IH}	HIGH-level	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V _{IL}	LOW-level	V _{CC} = 1.2 V	-	-	0.12	-	0.12	٧
	input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	٧
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	٧
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V_{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = -100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	V _{CC} - 0.2	-	-	V _{CC} - 0.3	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	1.05	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	1.65	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	V
		$I_{O} = -18 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.4	-	-	2.25	-	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = 100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	-	-	0.2	-	0.3	V
		$I_O = 4 \text{ mA}$; $V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.65	V
		$I_O = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	0.8	V
		$I_O = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	-	0.6	V
		$I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.8	٧

Product data sheet

 Table 6.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions	-40	0 °C to +85	o °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
I _I	input leakage current	$V_1 = 5.5 \text{ V or GND};$ $V_{CC} = 3.6 \text{ V}$	-	±0.1	±5	-	±20	μА
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	-	±0.1	±5	-	±20	μА
I _{OFF}	power-off leakage current	$V_1 \text{ or } V_0 = 5.5 \text{ V}; V_{CC} = 0.0 \text{ V}$	-	±0.1	±10	-	±20	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 3.6 \text{ V}$	-	0.1	10	-	40	μΑ
Δl _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	5	500	-	5000	μА
C _I	input capacitance		-	5.0	-	-	-	pF

^[1] All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 25 °C.

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 7.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	–40 °C to	Unit	
				Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation	An to Yn; see Figure 5	2]				•		
	delay	V _{CC} = 1.2 V		-	14.0	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.5	6.5	13.8	1.5	16.0	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	3.5	6.8	1.0	7.9	ns
		V _{CC} = 2.7 V		1.5	3.5	5.6	1.5	7.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	2.9	5.1	1.0	6.5	ns
t _{en}	enable time	OEn to Yn; see Figure 6	2]						
		V _{CC} = 1.2 V		-	20.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		1.8	7.7	16.0	1.8	18.5	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.5	4.3	8.8	1.5	10.2	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	4.4	7.5	1.5	9.5	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	3.5	7.0	1.0	9.0	ns
t _{dis}	disable time	OEn to Yn; see Figure 6	2]						
		V _{CC} = 1.2 V		-	11.0	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		3.0	4.9	10.3	3.0	11.9	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	2.7	5.9	1.0	6.8	ns
		V _{CC} = 2.7 V		1.5	3.7	7.0	1.5	9.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	3.3	6.0	1.0	7.5	ns

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Table 7. Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 7.

Symbol Parameter		Conditions	-40	°C to +8	5 °C	-40 °C to	Unit		
			Min	Typ[1]	Max	Min	Max		
C_{PD}	power	per input; $V_I = GND$ to V_{CC}	[4]					•	
	dissipation capacitance	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		-	7.7	-	-	-	pF
	capacitarice	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	11.3	-	-	-	pF
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	14.4	-	-	-	pF

- [1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.2 V, 1.8 V, 2.5 V, 2.7 V, and 3.3 V respectively.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL} .

 t_{en} is the same as t_{PZL} and t_{PZH} .

t_{dis} is the same as t_{PLZ} and t_{PHZ}.

- [3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.
- [4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

f_i = input frequency in MHz; f_o = output frequency in MHz

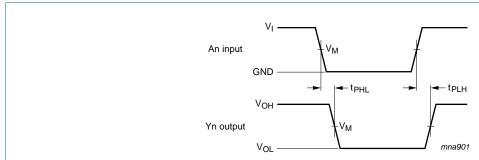
C_L = output load capacitance in pF

V_{CC} = supply voltage in Volts

N = number of inputs switching

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

11. AC waveforms

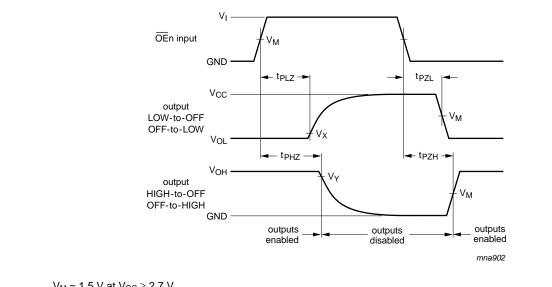


 V_M = 1.5 V at $V_{CC} \ge 2.7$ V.

 $V_M = 0.5 \times V_{CC}$ at $V_{CC} < 2.7$ V.

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

Fig 5. Input (An) to output (Yn) propagation delays



 V_M = 1.5 V at $V_{CC} \geq$ 2.7 V.

 V_M = 0.5 \times V_{CC} at V_{CC} < 2.7 V.

 V_X = V_{OL} + 0.3 V at $V_{CC} \geq$ 2.7 V.

 $V_X = V_{OL} + 0.15 \text{ V}$ at $V_{CC} < 2.7 \text{ V}$.

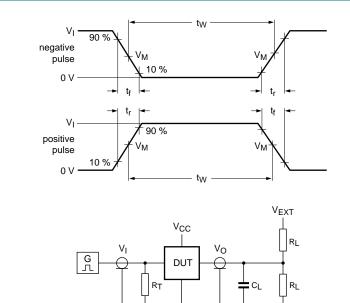
 V_Y = $V_{OH} - 0.3 \ V$ at $V_{CC} \geq 2.7 \ V.$

 V_{Y} = $V_{OH} - 0.15 \ V$ at $V_{CC} < 2.7 \ V.$

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

Fig 6. 3-state enable and disable times

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Test data is given in Table 8.

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 output impedance Z_0 of the pulse generator.

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

Fig 7. Test circuit for measuring switching times

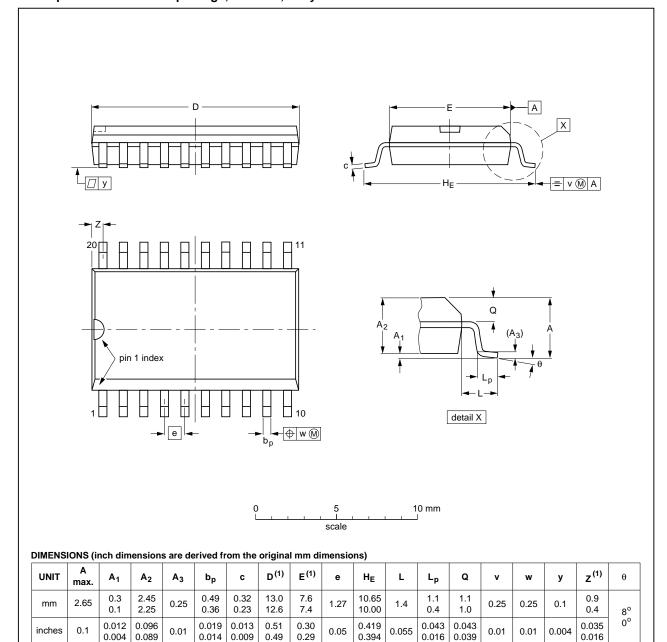
Table 8. Test data

Supply voltage	Input		Load		V _{EXT}	V _{EXT}				
	VI	t _r , t _f	CL	R _L	t _{PLH} , t _{PHL}	t_{PLZ}, t_{PZL}	t _{PHZ} , t _{PZH}			
1.2 V	V_{CC}	≤ 2 ns	30 pF	1 k Ω	open	$2\times V_{CC}$	GND			
1.65 V to 1.95 V	V_{CC}	≤ 2 ns	30 pF	1 kΩ	open	$2\times V_{CC}$	GND			
2.3 V to 2.7 V	V_{CC}	≤ 2 ns	30 pF	500Ω	open	$2\times V_{CC}$	GND			
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500Ω	open	$2\times V_{CC}$	GND			
3.0 V to 3.6 V	2.7 V	2.7 V ≤ 2.5 ns 5		50 pF 500 Ω		$2\times V_{CC}$	GND			

12. Package outline

SO20: plastic small outline package; 20 leads; body width 7.5 mm

SOT163-1



Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT163-1	075E04	MS-013				99-12-27 03-02-19

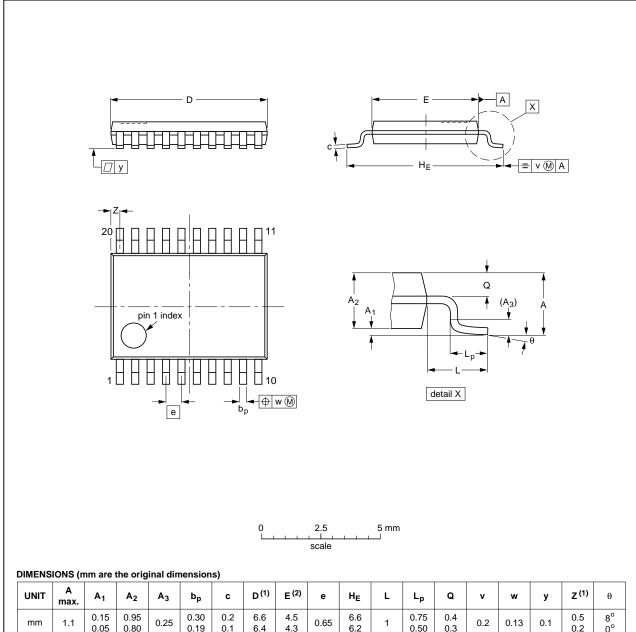
Fig 8. Package outline SOT163-1 (SO20)

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TSSOP20: plastic thin shrink small outline package; 20 leads; body width 4.4 mm

SOT360-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E (2)	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	6.6 6.4	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.5 0.2	8° 0°

Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

JEITA		PROJECTION	ISSUE DATE
1	*		
			99-12-27 03-02-19

Fig 9. Package outline SOT360-1 (TSSOP20)

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DHVQFN20: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 x 4.5 x 0.85 mm SOT764-1

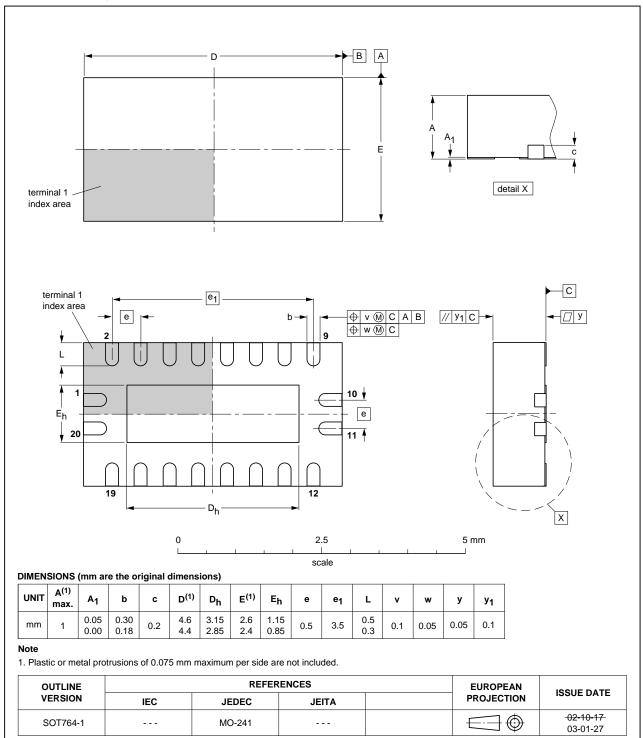


Fig 10. Package outline SOT764-1 (DHVQFN20)

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13. Abbreviations

Table 9. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
MM	Machine Model
НВМ	Human Body Model
TTL	Transistor-Transistor Logic
MIL	Military

14. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC541A_Q100 v.2	20130304	Product data sheet	-	74LVC541A_Q100 v.1
Modifications: • Changed interlacing into interfacing (errata) in features list.				
74LVC541A_Q100 v.1	20130219	Product data sheet	-	-

15. Legal information

15.1 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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16. Contact information

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

For sales office addresses, please send an email to: salesaddresses@nexperia.com

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