74ALVC541

Octal buffer/line driver; 3-state

Rev. 6 — 11 July 2023

Product data sheet

1. General description

The 74ALVC541 is an 8-bit buffer/line driver with 3-state outputs. The device features two output enables ($\overline{\text{OE}}$ 1 and $\overline{\text{OE}}$ 2). A HIGH on $\overline{\text{OE}}$ n causes the associated outputs to assume a high-impedance OFF-state.

Schmitt trigger action on all inputs makes the device tolerant of slow 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 3.6 V
- CMOS low power dissipation
- Overvoltage tolerant inputs to 3.6 V
- · Direct interface with TTL levels
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 250 mA per JESD78 Class II.A
- Complies with JEDEC standard:
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.5 V)
 - JESD8C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- · Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

3. Ordering information

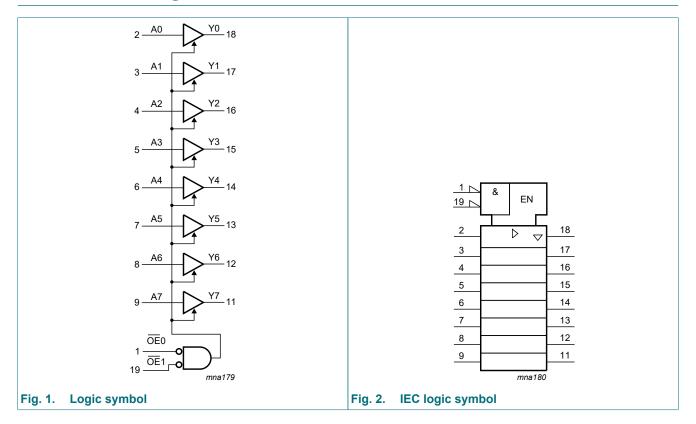
Table 1. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74ALVC541D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1						
74ALVC541PW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1						
74ALVC541BQ	-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 × 4.5 × 0.85 mm	SOT764-1						



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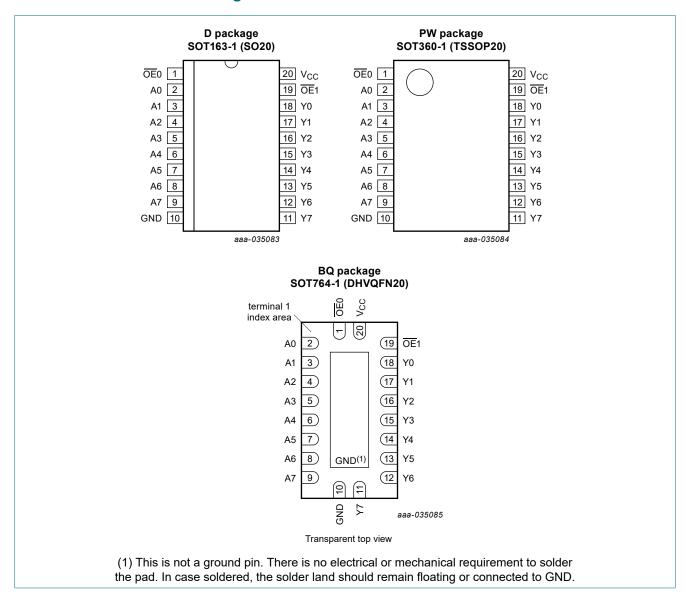
4. Functional diagram



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5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
ŌE0	1	output enable input (active LOW)
A0, A1, A2, A3, A4, A5, A6, A7	2, 3, 4, 5, 6, 7, 8, 9	data input
GND	10	ground (0 V)
Y0, Y1, Y2, Y3, Y4, Y5, Y6, Y7	18, 17, 16, 15, 14, 13, 12, 11	data output
ŌE1	19	output enable input (active LOW)
V _{CC}	20	supply voltage

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6. Functional description

Table 3. Functional table

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

Control		Input	Output
OE0	OE1	An	Yn
L	L	L	L
L	L	Н	Н
X	Н	X	Z
Н	X	X	Z

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	+4.6	V
VI	input voltage		[1]	-0.5	+4.6	V
Vo	output voltage	output HIGH or LOW state	[1]	-0.5	V _{CC} + 0.5	V
		output 3-state		-0.5	+4.6	V
		power-down mode; V _{CC} = 0 V		-0.5	+4.6	V
I _{IK}	input clamping current	V _I < 0 V		-50	-	mA
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V		-	±50	mA
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	[2]	-	500	mW

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

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V_{CC}	supply voltage		1.65	3.6	V
VI	input voltage		0	3.6	V
Vo	output voltage	output HIGH or LOW state	0	V _{CC}	V
		output 3-state	0	3.6	V
		power-down mode; V _{CC} = 0 V	0	3.6	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 3.6 V	-	10	ns/V

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^[2] For SOT163-1 (SO20) package: P_{tot} derates linearly with 12.3 mW/K above 109 °C.

For SOT360-1 (TSSOP20) package: P_{tot} derates linearly with 10.0 mW/K above 100 °C.

For SOT764-1 (DHVQFN20) package: Ptot derates linearly with 12.9 mW/K above 111 °C.

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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	5 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH-level	V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	-	-	0.65 × V _{CC}	-	V
	input voltage	V _{CC} = 2.3 V to 2.7V	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} = 1.65 V to 1.95 V	-	-	0.35 × V _{CC}	-	0.35 × V _{CC}	V
	input voltage	V _{CC} = 2.3 V to 2.7V	-	-	0.7	-	0.7	V
		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 μA; V _{CC} = 1.65 V to 3.6 V	V _{CC} - 0.2	-	-	V _{CC} - 0.2	-	V
	I _O = -6mA ; V _{CC} = 1.65 V	1.25	1.51	-	1.25	-	V	
		$I_O = -12 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	2.10	-	1.8	-	V
		$I_O = -18 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.7	2.01	-	1.7	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	2.2	2.53	-	2.2	-	V
		I _O = -18 mA; V _{CC} = 3.0 V	2.4	2.76	-	2.4	-	V
	I _O = -24 mA; V _{CC} = 3.0 V	2.2	2.68	-	2.2	-	V	
V _{OL}		V _I = V _{IH} or V _{IL}						
	output voltage	I _O = 100 μA; V _{CC} = 1.65 V to 3.6 V	-	-	0.2	-	0.2	V
		I _O = 6 mA ; V _{CC} = 1.65 V	-	0.11	0.3	-	0.3	V
		I _O = 12 mA; V _{CC} = 2.3 V	-	0.17	0.4	-	0.4	V
		I _O = 18 mA; V _{CC} = 2.3 V	-	0.25	0.6	-	0.6	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	0.16	0.4	-	0.4	V
		I _O = 18 mA; V _{CC} = 3.0 V	-	0.23	0.4	-	0.45	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	0.30	0.55	-	0.55	V
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 3.6 \text{ V}$	-	±0.1	±5.0	-	±20	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH} \text{ or } V_{IL};$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V};$ $V_O = 3.6 \text{ V or GND}$	-	±0.1	±10.0	-	±80	μΑ
I _{OFF}	power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V; } V_{CC} = 0 \text{ V}$	-	±0.1	±10.0	-	±80	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 3.6 \text{ V}$	-	0.2	10	-	80	μΑ
ΔI _{CC}	additional supply current	per input pin; V _{CC} = 3.0 V to 3.6 V; V _I = V _{CC} - 0.6 V; I _O = 0 A	-	5	750	-	750	μΑ
C _I	input capacitance		-	3.5	-	-	-	pF

^[1] All typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V and 3.3 V.

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10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

Symbol	Parameter	Conditions	-4	0 °C to +85	°C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation	An to Yn; see Fig. 3 [2]						
	delay	V _{CC} = 1.65V to 1.95 V	1.0	3.0	4.6	1.0	5.3	ns
		V _{CC} = 2.3V to 2.7 V	1.0	2.2	3.3	1.0	3.8	ns
		V _{CC} = 2.7 V	1.0	2.5	3.3	1.0	3.8	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.3	3.0	1.0	3.5	ns
t _{en}	enable time	OEn to Yn; see Fig. 4 [2]						
		V _{CC} = 1.65V to 1.95 V	1.0	4.2	7.5	1.0	8.6	ns
	V _{CC} = 2.3V to 2.7 V	1.0	3.3	5.4	1.0	6.2	ns	
		V _{CC} = 2.7 V	1.0	3.7	5.8	1.0	6.7	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.3	4.9	1.0	5.6	ns
t _{dis}	disable time	OEn to Yn; see Fig. 4 [2]						
		V _{CC} = 1.65V to 1.95 V	1.0	4.8	7.5	1.0	8.6	ns
		V _{CC} = 2.3V to 2.7 V	1.0	3.1	4.5	1.0	5.2	ns
		V _{CC} = 2.7 V	1.0	3.1	4.8	1.0	5.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.9	4.6	1.0	5.3	ns
C _{PD} power dissipation		per buffer; V_I = GND to V_{CC} ; [3] V_{CC} = 3.3 V						
	capacitance	outputs HIGH or LOW state	-	25	-	-	-	pF
		outputs 3-state	-	1	-	-	-	pF

^[1] All typical values are measured at Tamb = 25 $^{\circ}$ C and V_{CC} = 1.8 V, 2.5 V, 2.7 V and 3.3 V.

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

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

[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W).

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

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

^[2] t_{pd} is the same as t_{PLH} and t_{PHL} .

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10.1. Waveforms and test circuit

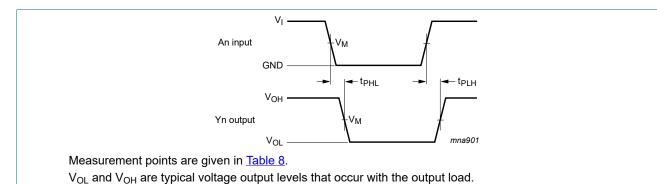
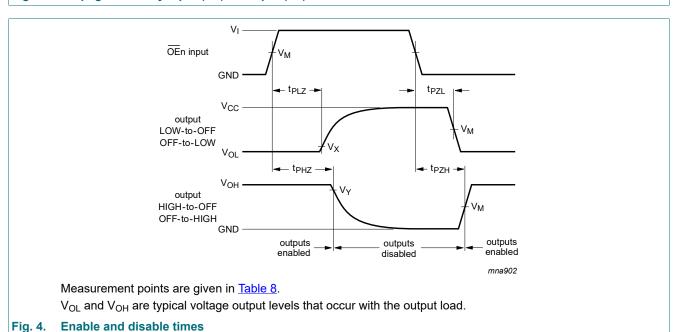


Fig. 3. Propagation delay input (An) to output (Yn)

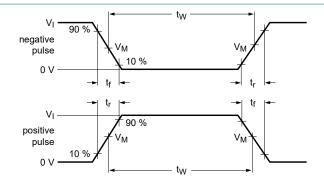


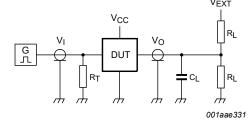
rig. 4. Enable and disable till

Table 8. Measurement points

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

Octal buffer/line driver; 3-state





Test data is given in Table 9.

Definitions test circuit:

 R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator;

 C_L = Load capacitance including jig and probe capacitance;

R_L = Load resistor.

Fig. 5. Test circuit for measuring switching times

Table 9. Test data

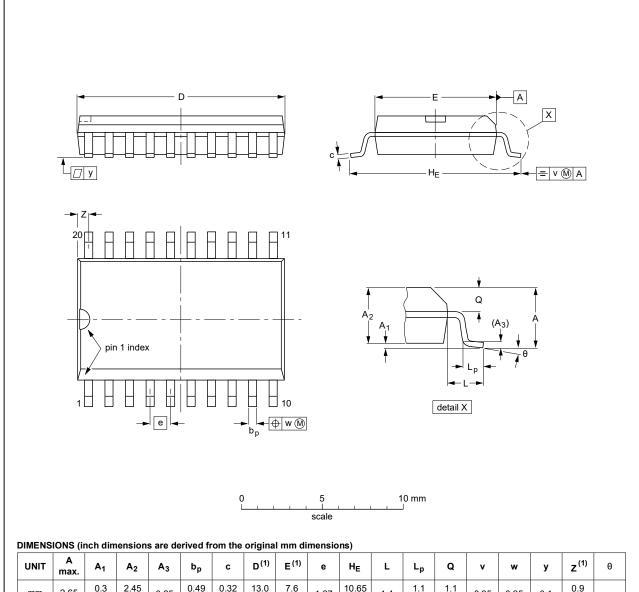
Supply voltage	Input		Load		V _{EXT}			
V _{CC}	VI	t _r , t _f	CL	R_L	t _{PLH} , t _{PHL}	t_{PLZ} , t_{PZL}	t _{PHZ} , t _{PZH}	
1.65 V to 1.95 V	V _{CC}	≤ 2.0 ns	30 pF	1 kΩ	open	2 × V _{CC}	GND	
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	open	2 × V _{CC}	GND	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	6 V	GND	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	6 V	GND	

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11. Package outline

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

SOT163-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	z ⁽¹⁾	θ
mm	2.65	0.3 0.1	2.45 2.25	0.25	0.49 0.36	0.32 0.23	13.0 12.6	7.6 7.4	1.27	10.65 10.00	1.4	1.1 0.4	1.1 1.0	0.25	0.25	0.1	0.9 0.4	8°
inches	0.1	0.012 0.004	0.096 0.089	0.01	0.019 0.014	0.013 0.009	0.51 0.49	0.30 0.29	0.05	0.419 0.394	0.055	0.043 0.016	0.043 0.039	0.01	0.01	0.004	0.035 0.016	0°

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 PROJECT		PROJECTION	ISSUE DATE
SOT163-1	075E04	MS-013				99-12-27 03-02-19

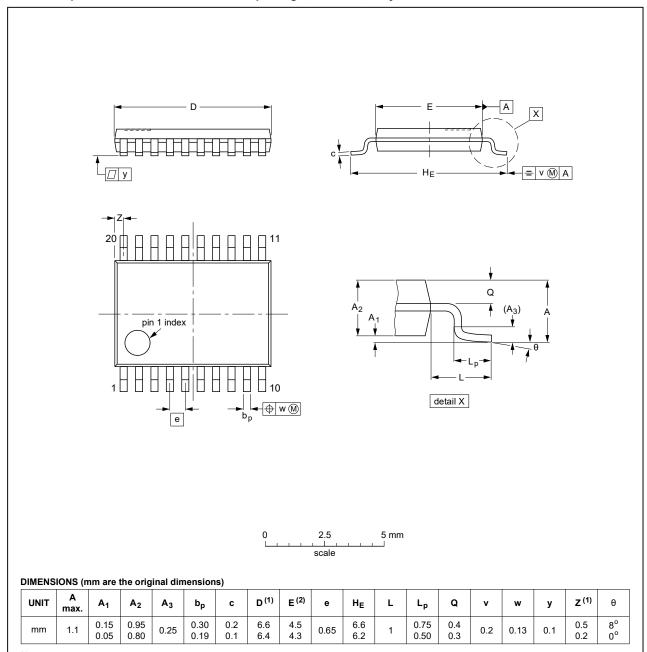
Fig. 6. Package outline SOT163-1 (SO20)

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

SOT360-1



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.

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA PROJECTION		PROJECTION	ISSUE DATE
SOT360-1		MO-153				99-12-27 03-02-19

Fig. 7. Package outline SOT360-1 (TSSOP20)

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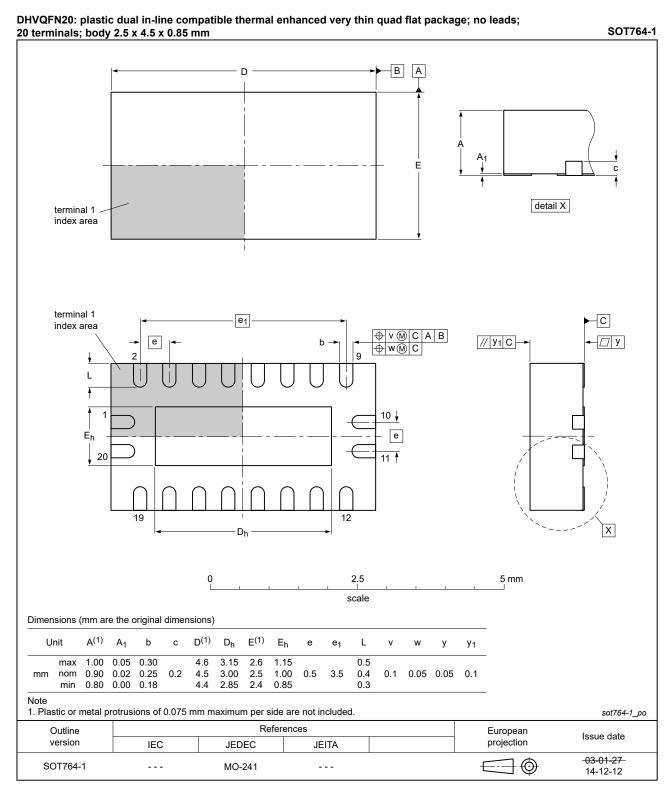


Fig. 8. Package outline SOT764-1 (DHVQFN20)

Octal buffer/line driver; 3-state

12. Abbreviations

Table 10. Abbreviations

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

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74ALVC541 v.6	20230711	Product data sheet	-	74ALVC541 v.5		
Modifications:	Section 2: u	 Section 1 updated. Section 2: updated; ESD specification updated according to the latest JEDEC standard. Table 6: errata. 				
74ALVC541 v.5	20210430	Product data sheet	-	74ALVC541 v.4		
Modifications:	 <u>Section 2</u>: Reference to JESD36 removed. <u>Table 4</u>: Derating values for P_{tot} total power dissipation removed (errata). 					
74ALVC541 v.4	20200930	Product data sheet	-	74ALVC541 v.3		
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. Table 4: Derating values for P_{tot} total power dissipation have been updated. Table 6: typo corrected. Table 7: typo corrected. Package outline drawing of SOT764-1 (Fig. 8) updated. 					
74ALVC541 v.3	20140120	Product data sheet	-	74ALVC541 v.2		
	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. Legal texts have been adapted to the new company name where appropriate. 					
74ALVC541 v.2	20071210	Product data sheet	-	74ALVC541 v.1		
74ALVC541 v.1	20021115	Product specification	-	-		

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14. 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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Octal buffer/line driver; 3-state

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