74ALVC541

Octal buffer/line driver; 3-state Rev. 3 — 20 January 2014

Product data sheet

1. **General description**

The 74ALVC541 is an octal non-inverting buffer/line drivers with 3-state bus compatible outputs. The 3-state outputs are controlled by the output enable inputs OE0 and OE1. A HIGH on OEn causes the outputs to assume a high-impedance OFF-state.

Features and benefits 2.

- Wide supply voltage range from 1.65 V to 3.6 V
- Complies with JEDEC standard:
 - ◆ JESD8-7 (1.65 V to 1.95 V)
 - ◆ JESD8-5 (2.3 V to 2.5 V)
 - ◆ JESD8B/JESD36 (2.7 V to 3.6 V)
- 3.6 V tolerant inputs/outputs
- CMOS LOW power consumption
- Direct interface with TTL levels (2.7 V to 3.6 V)
- Power-down mode
- Latch-up performance exceeds 250 mA
- ESD protection:
 - ◆ HBM JESD22-A114E exceeds 2000 V
 - ♦ MM JESD22-A115-A exceeds 200 V

Ordering information

Table 1. **Ordering information**

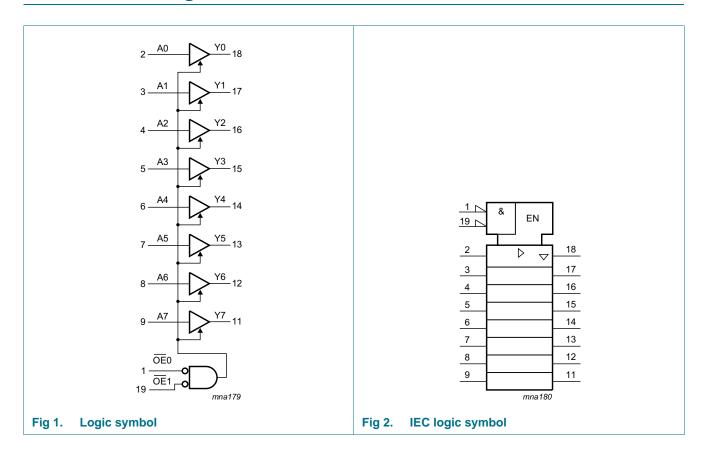
Type number	Package								
	Temperature range	Name	Description	Version					
74ALVC541D	–40 °C to +85 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1					
74ALVC541PW	–40 °C to +85 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1					
74ALVC541BQ	–40 °C to +85 °C	DHVQFN20	plastic dual-in-line compatible thermal enhanced very thin quad flat package no leads; 20 terminals; body $2.5\times4.5\times0.85$ mm	SOT764-1					



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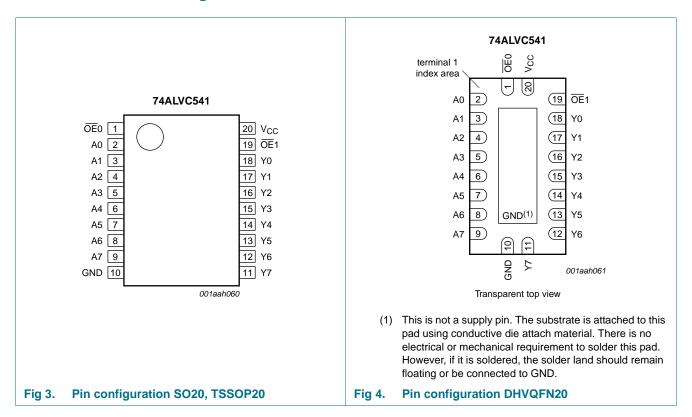
4. Functional diagram



Octal buffer/line driver; 3-state

5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

	•	
Symbol	Pin	Description
OE ₀	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	data output
OE1	19	output enable input (active LOW)
V_{CC}	20	supply voltage

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6. Functional description

Table 3. Functional table[1]

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

^[1] H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state.

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			-0.5	+4.6	V
I _{IK}	input clamping current	V _I < 0 V	[1]	-50	-	mA
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$		-	±50	mA
Vo	output voltage	output HIGH or LOW state	[2]	-0.5	$V_{CC} + 0.5$	V
		output 3-state	[2]	-0.5	+4.6	V
		power-down mode, V _{CC} = 0 V	[3]	-0.5	+4.6	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			-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +85 ^{\circ}\text{C}$				
	SO20 package		[4]	-	500	mW
	TSSOP20 package		[5]	-	500	mW
	DHVQFN20 package		[6]	-	500	mW

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

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

^[3] When $V_{CC} = 0$ V (Power-down mode), the output voltage can be 3.6 V in normal operation.

^[4] Ptot derates linearly with 8 mW/K above 70 °C.

^[5] Ptot derates linearly with 5.5 mW/K above 60 °C.

^[6] P_{tot} derates linearly with 4.5 mW/K above 60 °C.

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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, $V_{CC} = 0 \text{ V}$	0	3.6	V
T _{amb}	ambient temperature		-40	+85	°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

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	$T_{amb} = -$	-40 °C to	+85 °C	Unit
			Min	Typ[1]	Max	
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	V
		V _{CC} = 2.3 V to 2.7V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	V
		V _{CC} = 2.3 V to 2.7V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
V _{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = 100 \mu A$; $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	ςXX-0.2	-	-	V
		$I_{O} = 6mA$; $V_{CC} = 1.65 V$	1.25	-	-	V
		$I_{O} = 12 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	V
		$I_{O} = 18 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.7	-	-	V
		$I_{O} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	V
		$I_{O} = 18 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.4	-	-	V
		$I_{O} = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	V
V _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_{O} = -100 \ \mu A; \ V_{CC} = 1.65 \ V \ to \ 3.6 \ V$	-	-	0.2	V
		$I_{O} = -6mA$; $V_{CC} = 1.65 V$	-	-	0.3	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.4	V
		$I_{O} = -18 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	V
		$I_{O} = -18 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.4	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	V
l _{OZ}	OFF-state output current	V_{I} = V_{IH} or V_{IL} ; V_{O} = V_{CC} or GND; V_{CC} = 3.6 V	-	±0.1	±10.0	μΑ

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 Table 6.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions	T _{amb} =	Unit		
			Min	Typ[1]	Max	
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 3.6 \text{ V}$	-	±0.1	±5.0	μΑ
I _{OFF}	power-off leakage current	V_I or $V_O = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	±0.1	±10.0	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 3.6$ V	-	0.2	10	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	μΑ
C _I	input capacitance		-	3.5	-	pF

^[1] All typical values are measured at V_{CC} = 3.3 V and Tamb = 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		T _{aml}	_o = -40 °C to	+85 °C	Unit
				Min	Typ[1]	Max	
t _{pd}	propagation	An to Yn; see Figure 5	[2]				·
	delay	$V_{CC} = 1.65V$ to 1.95 V		1.0	3.0	4.6	ns
		$V_{CC} = 2.3V \text{ to } 2.7 \text{ V}$		1.0	2.2	3.3	ns
		V _{CC} = 27 V		1.0	2.5	3.3	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	2.3	3.0	ns
t _{en}	enable time	OEn to Yn; see Figure 6	[2]				
		$V_{CC} = 1.65V \text{ to } 1.95 \text{ V}$		1.0	4.2	7.5	ns
		$V_{CC} = 2.3V \text{ to } 2.7 \text{ V}$		1.0	3.3	5.4	ns
		V _{CC} = 27 V		1.0	3.7	5.8	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	3.3	4.9	ns
t _{dis}	disable time	OEn to Yn; see Figure 6	[2]				
		$V_{CC} = 1.65V \text{ to } 1.95 \text{ V}$		1.0	4.8	7.5	ns
		$V_{CC} = 2.3V \text{ to } 2.7 \text{ V}$		1.0	3.1	4.5	ns
		V _{CC} = 27 V		1.0	3.1	4.8	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	2.9	4.6	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	T _{aml}	$_{\rm o} = -40$ °C to \cdot	+85 °C	Unit
			Min	Typ[1]	Max	
C _{PD} power		per buffer; $V_I = GND$ to V_{CC} ; $V_{CC} = 3.3 \text{ V}$				
	dissipation capacitance	outputs enabled	-	25	-	pF
	capacitarice	outputs disabled	-	0	-	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.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL} .

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

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

[3] 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 V;

N = number of inputs switching;

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

11. Waveforms

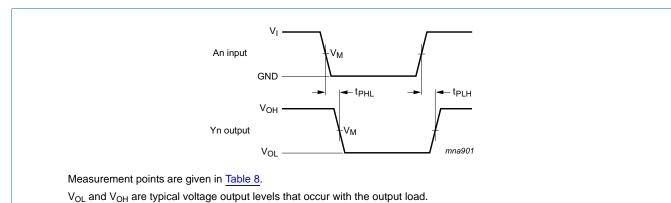
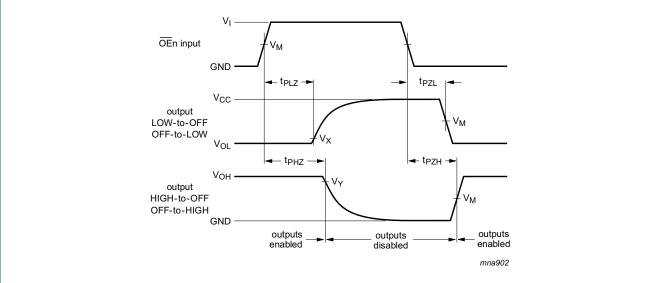


Fig 5. Propagation delay input (An) to output (Yn)

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Measurement points are given in Table 8.

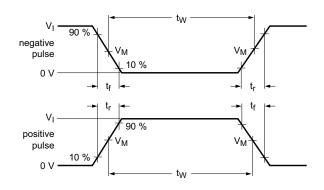
 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

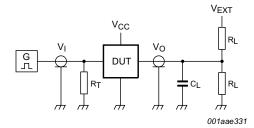
Fig 6. Enable and disable times

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}	$0.5 \times V_{\text{CC}}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	$V_{OH} - 0.15 V$
2.3 V to 2.7 V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	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	$V_{OH}-0.3\ V$

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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 7. Test circuit for measuring switching times

Table 9. Test data

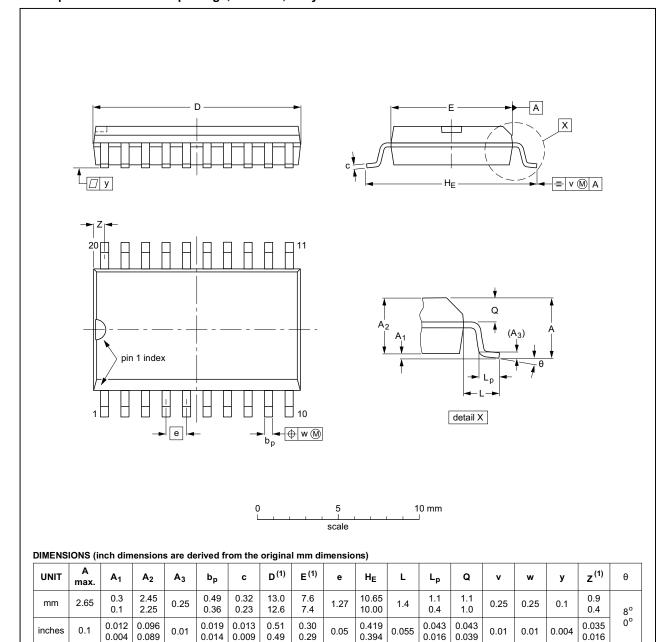
Supply voltage	Input	Input		Load		V _{EXT}		
V _{CC}	VI	t _r , t _f	CL	R _L	t _{PLH} , t _{PHL}	t _{PLZ} , t _{PZL}	t _{PHZ} , t _{PZH}	
1.65 V to 1.95 V	V_{CC}	\leq 2.0 ns	30 pF	1 kΩ	open	$2\times V_{CC}$	GND	
2.3 V to 2.7 V	V_{CC}	\leq 2.0 ns	30 pF	500Ω	open	$2\times V_{CC}$	GND	
2.7 V	2.7 V	≤ 2.5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

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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.

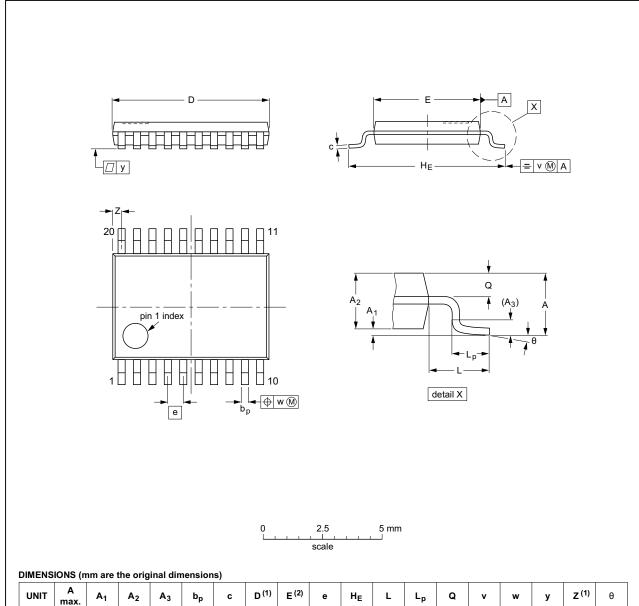
OUTLINE	REFERENCES	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT163-1	075E04	MS-013			-99-12-27 03-02-19

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	b _p	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.

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

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

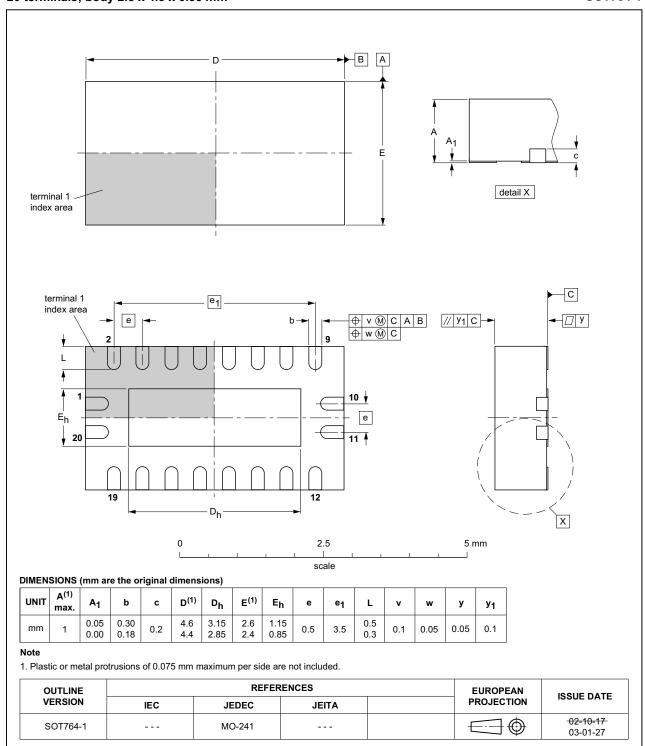


Fig 10. Package outline SOT764-1 (DHVQFN20)

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13. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charge Device Model
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 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74ALVC541 v.3	20140120	Product data sheet	-	74ALVC541 v.2	
	 The format of to of NXP Semicon 	his data sheet has been reconductors.	designed to comply with	the new identity guidelines	
	 Legal texts have 	ve 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	-	-	

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.					

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

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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