Octal buffer/line driver; 3-state Rev. 6 — 15 December 2016

Product data sheet

1. General description

The 74AHCV541A is an 8-bit buffer/line driver with 3-state outputs and Schmitt trigger inputs. The device features two output enables ($\overline{OE1}$ and $\overline{OE2}$). A HIGH on \overline{OEn} causes the associated outputs to assume a high-impedance OFF-state.

Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

The data (An) and control (\overline{OEn}) inputs include Schmitt trigger inputs, capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

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.

2. Features and benefits

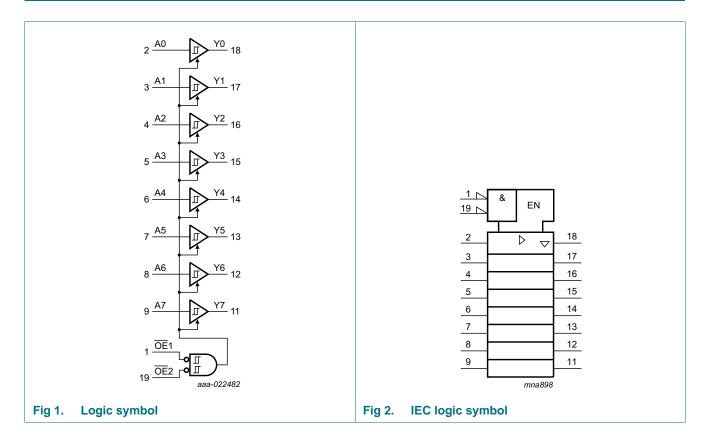
- Wide supply voltage range from 1.8 V to 5.5 V
- Typical t_{pd} of 3.0 ns at 5 V
- Typical V_{OL(p)} < 0.8 V at V_{CC} = 3.3 V, T_{amb} = 25 °C
- Typical V_{OH(v)} > 2.3 V at V_{CC} = 3.3 V, T_{amb} = 25 °C
- Supports mixed-mode voltage operation on all ports
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 250 mA per JESD 78 Class II
- ESD protection:
 - HBM ANSI/ESDA/JEDEC JS-001 Class 2 exceeds 3 kV
 - MM JESD22-A115-A exceeds 200 V
 - CDM JESD22-C101E exceeds 2 kV
- 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		
74AHCV541APW	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1		
74AHCV541ABQ	–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		

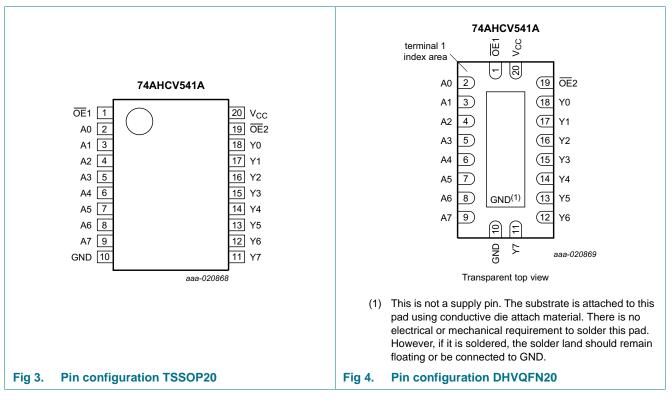
4. Functional diagram



Octal buffer/line driver; 3-state

5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description		
Symbol	Pin	Description
OE1	1	output enable input (active LOW)
A0 to A7	2, 3, 4, 5, 6, 7, 8, 9	data input
GND	10	ground (0 V)
Y0 to Y7	18, 17, 16, 15, 14, 13, 12, 11	data output
OE2	19	output enable input (active LOW)
V _{cc}	20	supply voltage

6. Functional description

Table 3. Functional table ^[1]							
Control		Input	Output				
OE1	OE2	An	Yn				
L	L	L	L				
L	L	Н	Н				
Х	Н	Х	Z				
Н	Х	Х	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	+7.0	V
VI	input voltage		<u>[1]</u>	-0.5	+7.0	V
Vo	output voltage	active mode	<u>[2][3]</u>	-0.5	V _{CC} + 0.5	V
		power-down or 3-state mode	[2]	-0.5	+7.0	V
I _{IK}	input clamping current	V ₁ < 0 V		-50	-	mA
I _{ОК}	output clamping current	V _O < 0 V		-50	-	mA
I _O	output current	$V_{O} = 0 V$ 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	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$	<u>[4]</u>	-	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] This value is limited to 7.0 V maximum.
- [4] For TSSOP20 package: above 100 °C the value of P_{tot} derates linearly with 10 mW/K. For DHVQFN20 package: above 110 °C the value of P_{tot} derates linearly with 12.5 mW/K.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		1.8	5.5	V
VI	input voltage		0	5.5	V
Vo	output voltage	active mode	0	V _{CC}	V
		power-down or 3-state mode	0	5.5	V V V °C ms/V
T _{amb}	ambient temperature		-40	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	50	ms/V
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	20	ms/V
		$V_{CC} = 4.5 V \text{ to } 5.5 V$	-	1	ms/V

9. Static characteristics

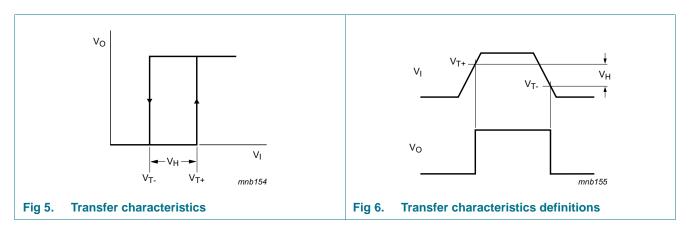
Table 6. Static characteristics

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C		–40 °C to	o +85 °C	–40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
V _{T+}	positive-going	V _{CC} = 1.8 V	-	-	1.65	-	1.65	-	1.65	V
	threshold voltage	V _{CC} = 2.3 V	-	-	1.85	-	1.85	-	1.85	V
	vollage	V _{CC} = 3.0 V	-	-	2.2	-	2.2	-	2.2	V
		V _{CC} = 4.5 V	-	-	3.15	-	3.15	-	3.15	V
		V _{CC} = 5.5 V	-	-	3.85	-	3.85	-	3.85	V
V _{T-} negative-going	V _{CC} = 1.8 V	0.15	-	-	0.15	-	0.15	-	V	
	threshold voltage	V _{CC} = 2.3 V	0.45	-	-	0.45	-	0.45	-	V
vollage	voltage	V _{CC} = 3.0 V	0.9	-	-	0.9	-	0.9	-	V
		V _{CC} = 4.5 V	1.35	-	-	1.35	-	1.35	-	V
		V _{CC} = 5.5 V	1.65	-	-	1.65	-	1.65	-	V
V _H	hysteresis	V _{CC} = 1.8 V	0.15	-	1.05	0.15	1.05	0.15	1.05	V
	voltage	V _{CC} = 2.3 V	0.2	-	1.1	0.2	1.1	0.2	1.1	V
		V _{CC} = 3.0 V	0.3	-	1.2	0.3	1.2	0.3	1.2	V
		V _{CC} = 4.5 V	0.4	-	1.4	0.4	1.4	0.4	1.4	V
		V _{CC} = 5.5 V	0.5	-	1.6	0.5	1.6	0.5	1.6	V
V _{OH}	HIGH-level	$V_{I} = V_{T+}$ or V_{T-}								V
	output voltage	$I_0 = -50 \ \mu A; V_{CC} = 1.8 \ V$	1.7	1.8	-	1.7	-	1.7	-	V
		$I_0 = -50 \ \mu A; \ V_{CC} = 3.0 \ V$	2.9	3.0	-	2.9	-	2.9	-	V
		$I_0 = -50 \ \mu A; \ V_{CC} = 4.5 \ V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.48	-	V
		$I_{O} = -16 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.80	-	3.80	-	

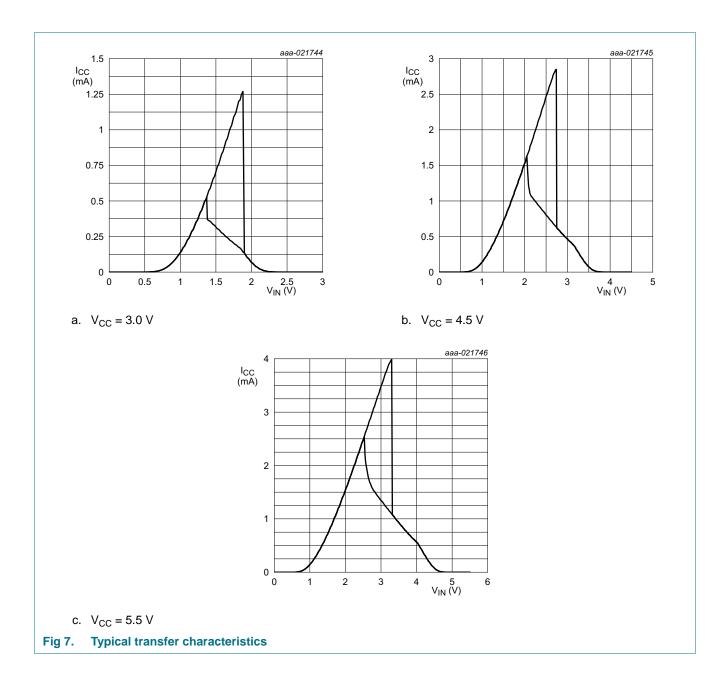
Static characteristics ... continued Table 6. Voltages are referenced to GND (ground = 0 V). Conditions 25 °C -40 °C to +85 °C -40 °C to +125 °C Unit Symbol Parameter Min Тур Max Min Max Min Max VOL LOW-level $V_I = V_{T+} \text{ or } V_{T-}$ output voltage $I_0 = 50 \ \mu A; V_{CC} = 1.8 \ V$ V 0.1 0.1 -0 -_ 0.1 $I_0 = 50 \ \mu A; V_{CC} = 3.0 \ V$ 0 0.1 0.1 0.1 V --- $I_0 = 50 \ \mu A; V_{CC} = 4.5 \ V$ -0 0.1 _ 0.1 _ 0.1 V $I_0 = 8 \text{ mA}; V_{CC} = 3.0 \text{ V}$ 0.36 V 0.44 0.44 ---_ $I_0 = 16 \text{ mA}; V_{CC} = 4.5 \text{ V}$ 0.44 0.55 0.55 V ---- $V_{CC} = 1.8 \text{ V to 5.5 V;}$ OFF-state ±0.25 ±2.5 ±2.5 μΑ _ _ -_ loz $V_{I} = V_{IH}$ or V_{IL} ; output current $V_0 = GND$ to 5.5 V V_{I} or V_{O} = GND to 5.5 V; power-off 0.5 5 5 IOFF μΑ --_ leakage $V_{CC} = 0 V$ current $V_{I} = V_{CC} \text{ or } GND;$ input leakage I_I ±0.1 ±1 ±1 μA ---- $V_{CC} = 0 V \text{ to } 5.5 V$ current $V_I = V_{CC}$ or GND; $I_O = 0$ A; 2 20 20 Icc supply current -_ μA -- $V_{CC} = 5.5 V$

9.1 Transfer characteristics waveforms



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10. Dynamic characteristics

Table 7.Dynamic characteristics

GND = 0 V. For test circuit see <u>Figure 10</u>.

Symbol	Parameter	Conditions			25 °C		–40 °C	to +85 °C	–40 °C t	o +125 °C	Unit
				Min	Typ <mark>[1]</mark>	Max	Min	Max	Min	Max	
t _{pd}	propagation	An to Yn; see Figure 8	[2]								
	delay	V_{CC} = 2.3 V to 2.7 V									
		C _L = 15 pF		-	5.1	11.3	1	13.5	1	13.5	ns
		C _L = 50 pF		-	7.0	15.9	1	18.5	1	18.5	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$									
		C _L = 15 pF		-	3.9	7	1	8.5	1	8.5	ns
		C _L = 50 pF		-	5.4	10.5	1	12	1	12	ns
		V_{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.0	5	1	6	1	6	ns
		C _L = 50 pF		-	4.2	7	1	8	1	8	ns
t _{en}	enable time	OEn to Yn; see Figure 9	[2]								
		V_{CC} = 2.3 V to 2.7 V									
		C _L = 15 pF		-	5.9	17.4	1	21	1	21	ns
		C _L = 50 pF		-	7.9	22.2	1	25.5	1	25.5	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$									
		C _L = 15 pF		-	4.4	10.5	1	12.5	1	12.5	ns
		C _L = 50 pF		-	6.0	14	1	16	1	16	ns
		V_{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.2	7.2	1	8.5	1	8.5	ns
		C _L = 50 pF		-	4.5	9.2	1	10.5	1	10.5	ns
t _{dis}	disable time	OEn to Yn; see Figure 9	[2]								
		V_{CC} = 2.3 V to 2.7 V									
		C _L = 15 pF		-	6.7	17.8	1	21	1	21	ns
		C _L = 50 pF		-	11.2	22.3	1	25.5	1	25.5	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$									
		C _L = 15 pF		-	5.4	11.9	1	14	1	14	ns
		C _L = 50 pF		-	8.8	15.4	1	17.5	1	17.5	ns
		V_{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	4.3	8.5	1	9.5	1	9.5	ns
		C _L = 50 pF		-	6.5	10.5	1	11.5	1	11.5	ns
t _{sk(o)}	skew	C _L = 50 pF									
		V_{CC} = 2.3 V to 2.7 V		-	-	2	-	2	-	2	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	-	1.5	-	1.5	-	1.5	ns
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$		-	-	1	-	1	-	1	ns

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Symbol	Parameter	Conditions		25 °C		-40 °C 1	to +85 °C	–40 °C t	o +125 °C	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	Min	Max	
Cı	input capacitance	$V_I = V_{CC}$ or GND; $V_{CC} = 3.3 \text{ V}$	-	2	6	-	6	-	6	pF
Co	output capacitance	$V_{O} = V_{CC} \text{ or GND};$ $V_{CC} = 3.3 \text{ V}$	-	5	-	-	-	-	-	pF
C _{PD}	power dissipation capacitance	$\label{eq:constraint} \begin{array}{ll} \mbox{per buffer;} & [3] \\ C_L = 0 \mbox{ pF; } f = 10 \mbox{ MHz;} \\ V_{CC} = 5 \mbox{ V;} \\ V_I = GND \mbox{ to } V_{CC} \end{array}$	-	15	-	-	-	-	-	pF

Table 7. Dynamic characteristics ...continued GND = 0 V. For test circuit see Figure 10.

[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 2.5 V, 3.3 V, and 5 V respectively, unless otherwise specified.

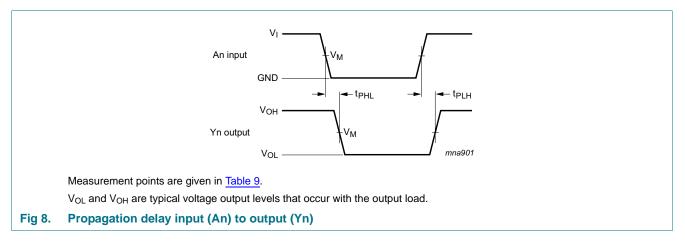
- t_{pd} is the same as t_{PLH} and t_{PHL}.
 t_{en} is the same as t_{PZL} and t_{PZH}.
 t_{dis} is the same as t_{PLZ} and t_{PHZ}.
- [3] C_{PD} is used to determine the dynamic power dissipation P_D (μ W).
 - $P_D = C_{PD} \times V_{CC}^2 \times f_i + \sum (C_L \times V_{CC}^2 \times f_o)$ where:
 - f_i = input frequency in MHz;
 - $f_o = output frequency in MHz;$
 - C_L = output load capacitance in pF;
 - V_{CC} = supply voltage in Volts.

Table 8.Noise characteristics

GND = 0 V. For test circuit see <u>Figure 10</u>.

Symbol	Parameter	Conditions	т	_{amb} = 25 °C	;	Unit V V V V V V V V V
			Min	Тур	Max	
$V_{\rm CC} = 3.3$	³ V; C _L = 50 pF					
V _{OL(p)}	LOW-level output voltage (peak)		-	0.3	0.8	V
V _{OL(v)}	LOW-level output voltage (valley)		-0.8	-0.2	-	V
V _{OH(v)}	HIGH-level output voltage (valley)		-	2.9	-	V
V _{IH(AC)}	AC HIGH-level input voltage		2.31	-	-	V
V _{IL(AC)}	AC LOW-level input voltage		-	-	0.99	V
$V_{\rm CC} = 5.0$	V; C _L = 50 pF					
V _{OL(p)}	LOW-level output voltage (peak)		-	0.6	1.5	V
V _{OL(v)}	LOW-level output voltage (valley)		-1.5	-0.6	-	V
V _{OH(v)}	HIGH-level output voltage (valley)		-	4.0	-	V
V _{IH(AC)}	AC HIGH-level input voltage		3.5	-	-	V
V _{IL(AC)}	AC LOW-level input voltage		-	-	1.5	V

11. Waveforms



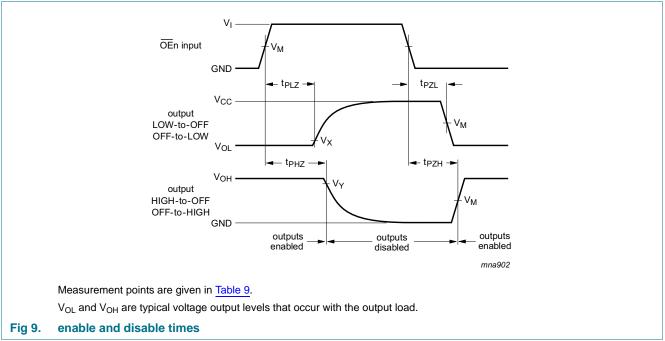


Table 9.Measurement points

Input	Output		
V _M	V _M	V _X	V _Y
0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V

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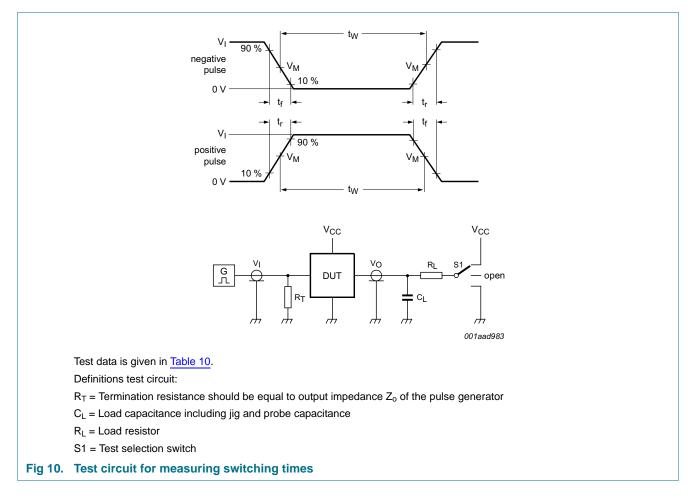


Table 10. Test data

Input		Load		S1 position		
VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
GND to V_{CC}	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}

Octal buffer/line driver; 3-state

12. Package outline

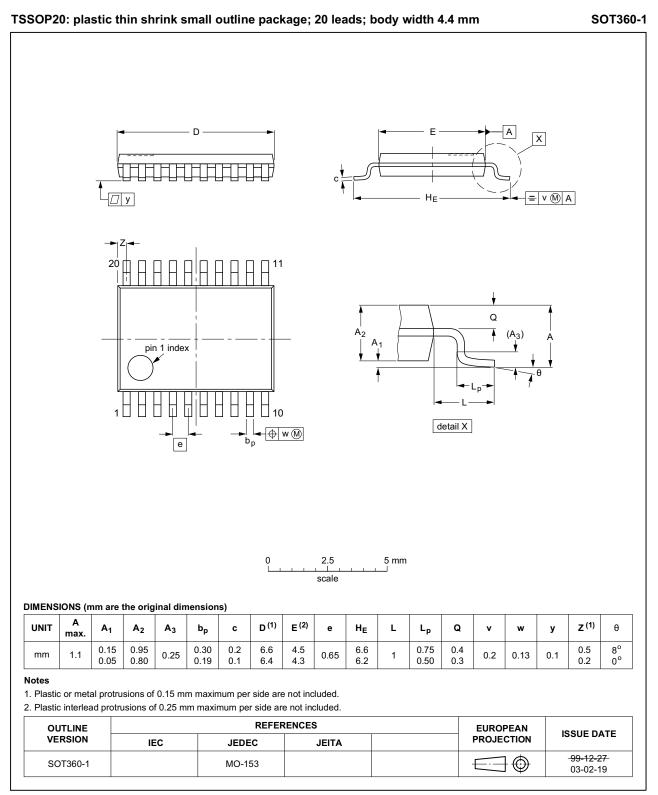
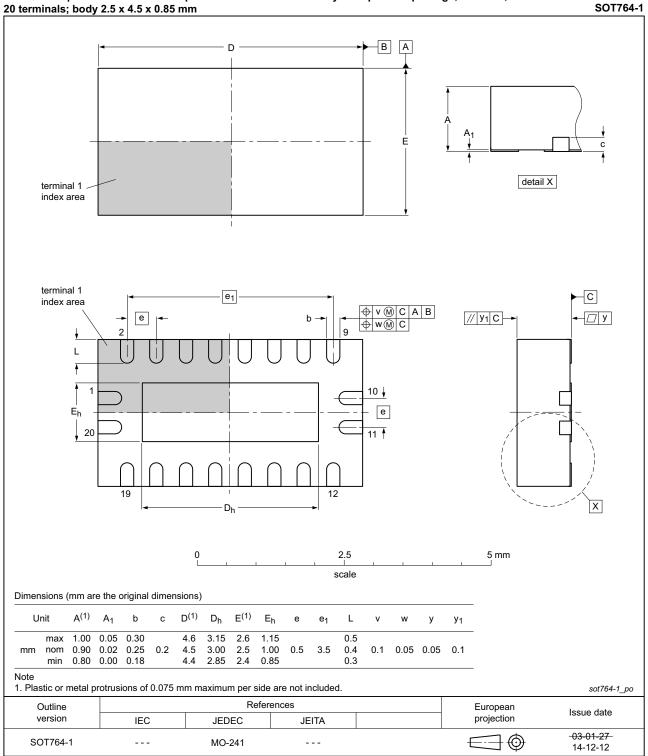


Fig 11. Package outline SOT360-1 (TSSOP20)

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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

Fig 12. Package outline SOT764-1 (DHVQFN20)

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13. Abbreviations

Table 11. Abbreviations					
Acronym	Description				
CDM	Charge Device Model				
DUT	Device Under Test				
ESD	ElectroStatic Discharge				
HBM	Human Body Model				
ММ	Machine Model				

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AHCV541A v.6	20161215	Product data sheet	-	74AHCV541A v.5	
Modifications:	Added type number 74AHCV541ABQ (SOT764-1)				
74AHCV541A v.5	20161107	Product data sheet	-	74AHCV541A v.4	
Modifications:	Type number 74AHCV541ABQ removed.				
74AHCV541A v.4	20160420	Product data sheet	-	74AHCV541A v.3	
Modifications:	• Figure 1 updated.				
74AHCV541A v.3	20160224	Product data sheet	-	74AHCV541A v.2	
Modifications:	• <u>Table 7</u> : C _{PD} value corrected (errata).				
74AHCV541A v.2	20160126	Product data sheet	-	74AHCV541A v.1	
Modifications:	• <u>Table 7</u> : conditions C _{PD} corrected (errata).				
	• Figure 7 updated.				
74AHCV541A v.1	20151223	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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Product data sheet

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product for such automotive applications, use and specifications, and (b) whenever customer uses the product for automotive applications beyond

Nexperia's specifications such use shall be solely at customer's own risk, and (c) customer fully indemnifies Nexperia for any liability, damages or failed product claims resulting from customer design and use of the product for automotive applications beyond Nexperia's standard warranty and Nexperia's product specifications.

Translations — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

15.4 Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

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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Octal buffer/line driver; 3-state

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