

74AHCV541A

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 ($\overline{OE}1$ and $\overline{OE}2$). A HIGH on $\overline{OE}n$ 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 (A_n) and control ($\overline{OE}n$) 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

nexperia

3. Ordering information

Table 1. Ordering information

Type number	Package			Version
	Temperature range	Name	Description	
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 × 4.5 × 0.85 mm	SOT764-1

4. Functional diagram

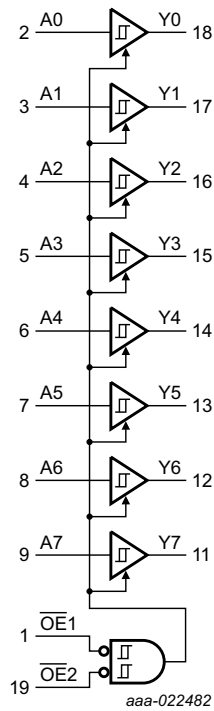


Fig 1. Logic symbol

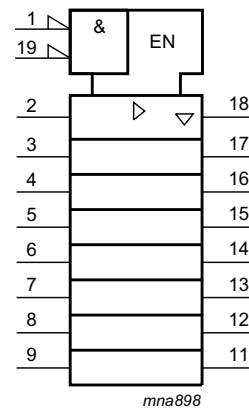
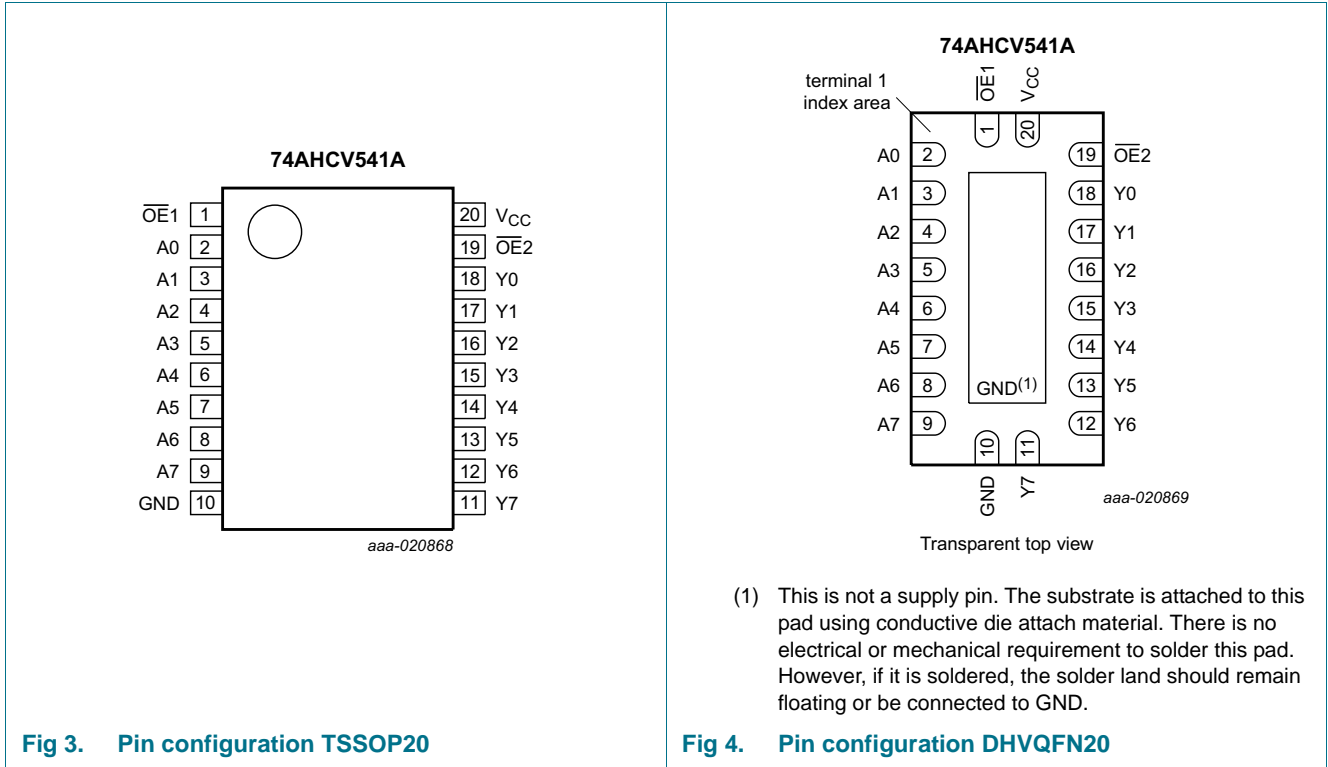


Fig 2. IEC logic symbol

5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
$\overline{OE}1$	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
$\overline{OE}2$	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	H	H
X	H	X	Z
H	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	+7.0	V
V_I	input voltage		-0.5	+7.0	V
V_O	output voltage	active mode	-0.5	$V_{CC} + 0.5$	V
		power-down or 3-state mode	-0.5	+7.0	V
I_{IK}	input clamping current	$V_I < 0$ V	-50	-	mA
I_{OK}	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	$T_{amb} = -40$ °C to +125 °C	-	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
V_I	input voltage		0	5.5	V
V_O	output voltage	active mode	0	V_{CC}	V
		power-down or 3-state mode	0	5.5	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
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	-	20	ms/V
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	-	1	ms/V

9. Static characteristics

Table 6. Static characteristics

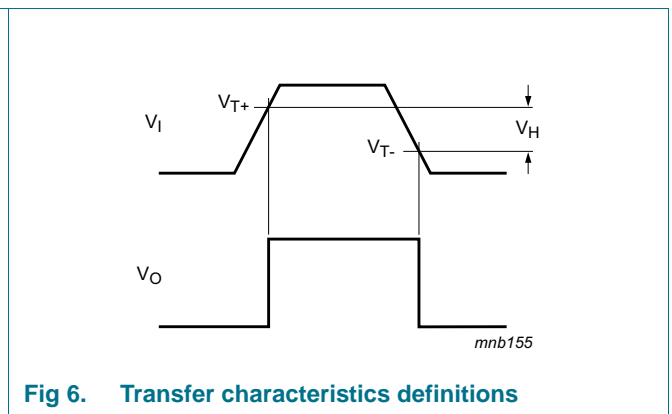
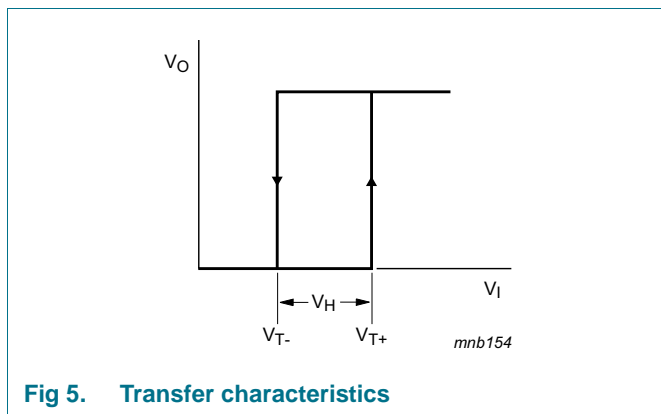
Voltages are referenced to GND (ground = 0 V).

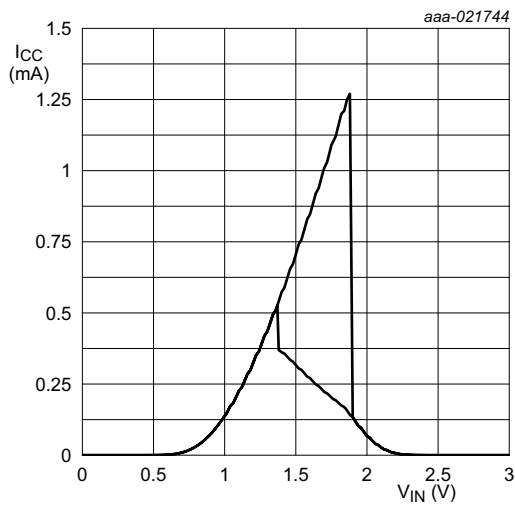
Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
V_{T+}	positive-going threshold voltage	$V_{CC} = 1.8\text{ V}$	-	-	1.65	-	1.65	-	1.65	V
		$V_{CC} = 2.3\text{ V}$	-	-	1.85	-	1.85	-	1.85	V
		$V_{CC} = 3.0\text{ V}$	-	-	2.2	-	2.2	-	2.2	V
		$V_{CC} = 4.5\text{ V}$	-	-	3.15	-	3.15	-	3.15	V
		$V_{CC} = 5.5\text{ V}$	-	-	3.85	-	3.85	-	3.85	V
V_{T-}	negative-going threshold voltage	$V_{CC} = 1.8\text{ V}$	0.15	-	-	0.15	-	0.15	-	V
		$V_{CC} = 2.3\text{ V}$	0.45	-	-	0.45	-	0.45	-	V
		$V_{CC} = 3.0\text{ V}$	0.9	-	-	0.9	-	0.9	-	V
		$V_{CC} = 4.5\text{ V}$	1.35	-	-	1.35	-	1.35	-	V
		$V_{CC} = 5.5\text{ V}$	1.65	-	-	1.65	-	1.65	-	V
V_H	hysteresis voltage	$V_{CC} = 1.8\text{ V}$	0.15	-	1.05	0.15	1.05	0.15	1.05	V
		$V_{CC} = 2.3\text{ V}$	0.2	-	1.1	0.2	1.1	0.2	1.1	V
		$V_{CC} = 3.0\text{ V}$	0.3	-	1.2	0.3	1.2	0.3	1.2	V
		$V_{CC} = 4.5\text{ V}$	0.4	-	1.4	0.4	1.4	0.4	1.4	V
		$V_{CC} = 5.5\text{ V}$	0.5	-	1.6	0.5	1.6	0.5	1.6	V
V_{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}								V
		$I_O = -50\ \mu\text{A}; V_{CC} = 1.8\text{ V}$	1.7	1.8	-	1.7	-	1.7	-	V
		$I_O = -50\ \mu\text{A}; V_{CC} = 3.0\text{ V}$	2.9	3.0	-	2.9	-	2.9	-	V
		$I_O = -50\ \mu\text{A}; V_{CC} = 4.5\text{ V}$	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	-	V	

Table 6. Static characteristics ...continued
 Voltages are referenced to GND (ground = 0 V).

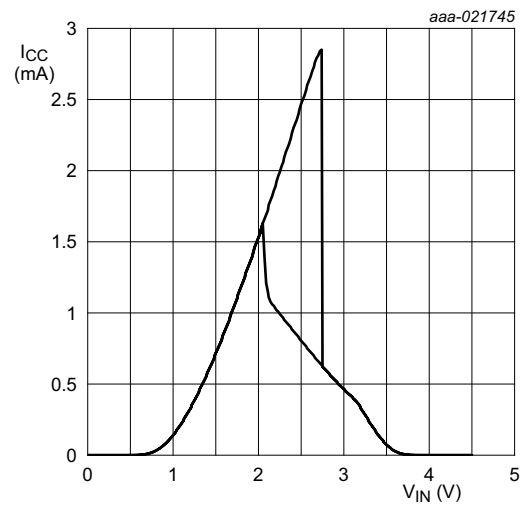
Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
V _{OL}	LOW-level output voltage	V _I = V _{T+} or V _{T-}								
		I _O = 50 μA; V _{CC} = 1.8 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 50 μA; V _{CC} = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 50 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 8 mA; V _{CC} = 3.0 V	-	-	0.36	-	0.44	-	0.44	V
I _O = 16 mA; V _{CC} = 4.5 V	-	-	0.44	-	0.55	-	0.55	V		
I _{OZ}	OFF-state output current	V _{CC} = 1.8 V to 5.5 V; V _I = V _{IH} or V _{IL} ; V _O = GND to 5.5 V	-	-	±0.25	-	±2.5	-	±2.5	μA
I _{OFF}	power-off leakage current	V _I or V _O = GND to 5.5 V; V _{CC} = 0 V	-	-	0.5	-	5	-	5	μA
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 0 V to 5.5 V	-	-	±0.1	-	±1	-	±1	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	2	-	20	-	20	μA

9.1 Transfer characteristics waveforms

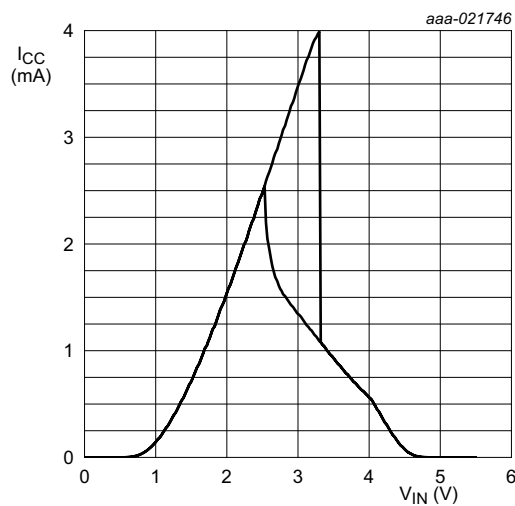




a. $V_{CC} = 3.0\text{ V}$



b. $V_{CC} = 4.5\text{ V}$



c. $V_{CC} = 5.5\text{ V}$

Fig 7. Typical transfer characteristics

10. Dynamic characteristics

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

Symbol	Parameter	Conditions	25 °C			−40 °C to +85 °C		−40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	Min	Max	
t _{pd}	propagation delay	An to Y _n ; see Figure 8 ^[2]								
		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 V to 3.6 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 Y _n ; 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 V to 3.6 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 Y _n ; 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 V to 3.6 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 V to 3.6 V	-	-	1.5	-	1.5	-	1.5	ns
		V _{CC} = 4.5 V to 5.5 V	-	-	1	-	1	-	1	ns

Table 7. Dynamic characteristics ...continued
 GND = 0 V. For test circuit see [Figure 10](#).

Symbol	Parameter	Conditions	25 °C			−40 °C to +85 °C		−40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	Min	Max	
C _I	input capacitance	V _I = V _{CC} or GND; V _{CC} = 3.3 V	-	2	6	-	6	-	6	pF
C _O	output capacitance	V _O = V _{CC} or GND; V _{CC} = 3.3 V	-	5	-	-	-	-	-	pF
C _{PD}	power dissipation capacitance	per buffer; C _L = 0 pF; f = 10 MHz; V _{CC} = 5 V; V _I = GND to V _{CC}	-	15	-	-	-	-	-	pF

[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.

[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] C_{PD} is used to determine the dynamic power dissipation P_D (μW).

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

f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

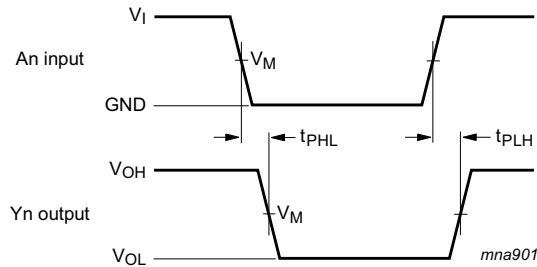
V_{CC} = supply voltage in Volts.

Table 8. Noise characteristics

GND = 0 V. For test circuit see [Figure 10](#).

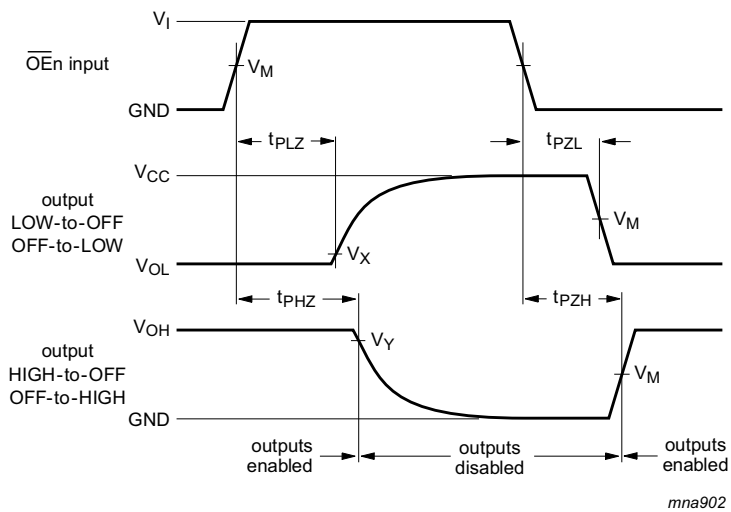
Symbol	Parameter	Conditions	T _{amb} = 25 °C			Unit
			Min	Typ	Max	
V_{CC} = 3.3 V; C_L = 50 pF						
V _{OL(p)}	LOW-level output voltage (peak)		-	0.3	0.8	V
V _{OL(v)}	LOW-level output voltage (valley)		-0.8	-0.2	-	V
V _{OH(v)}	HIGH-level output voltage (valley)		-	2.9	-	V
V _{IH(AC)}	AC HIGH-level input voltage		2.31	-	-	V
V _{IL(AC)}	AC LOW-level input voltage		-	-	0.99	V
V_{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



Measurement points are given in [Table 9](#).
 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig 8. Propagation delay input (An) to output (Yn)

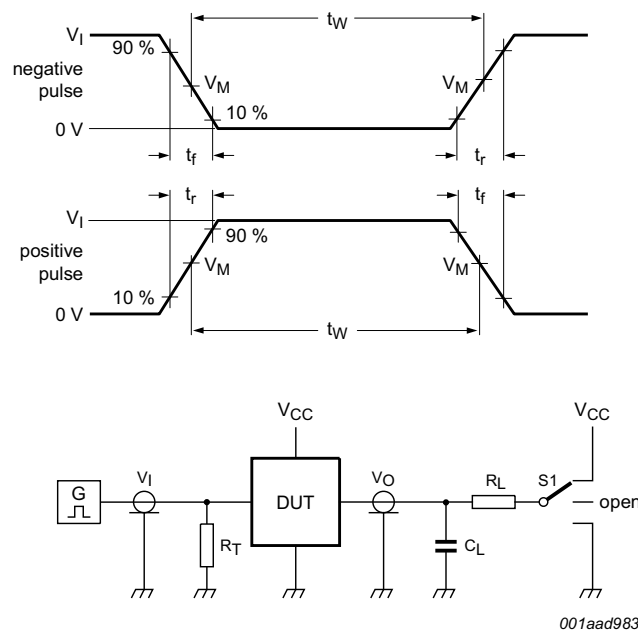


Measurement points are given in [Table 9](#).
 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig 9. enable and disable times

Table 9. Measurement points

Input	Output		
V_M	V_M	V_X	V_Y
$0.5V_{CC}$	$0.5V_{CC}$	$V_{OL} + 0.3 V$	$V_{OH} - 0.3 V$



Test data is given in [Table 10](#).

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

S1 = Test selection switch

Fig 10. Test circuit for measuring switching times

Table 10. Test data

Input		Load		S1 position		
V_I	t_r, t_f	C_L	R_L	t_{PHL}, t_{PLH}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
GND to V_{CC}	3.0 ns	15 pF, 50 pF	1 k Ω	open	GND	V_{CC}

12. Package outline

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

SOT360-1

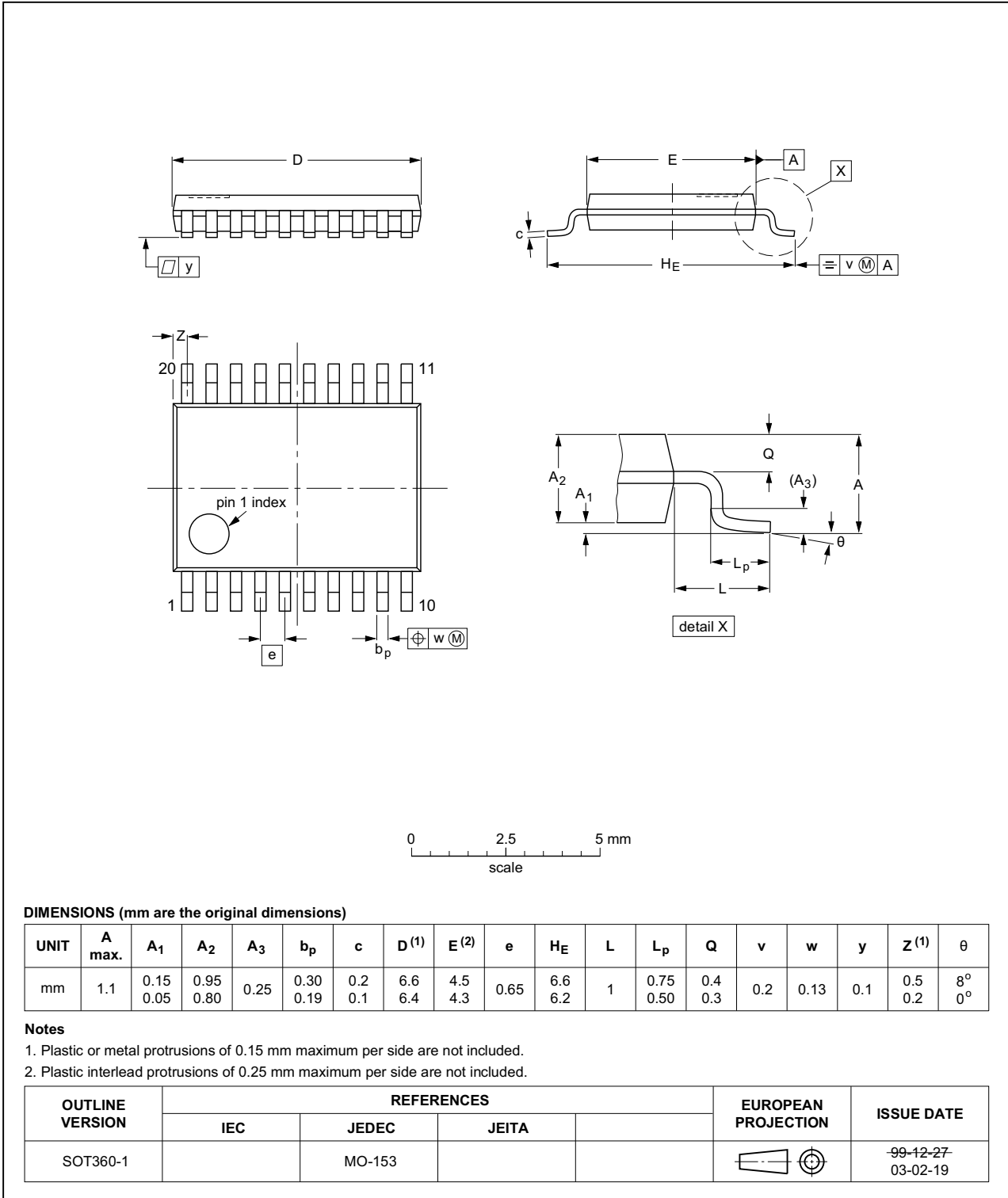


Fig 11. Package outline SOT360-1 (TSSOP20)

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

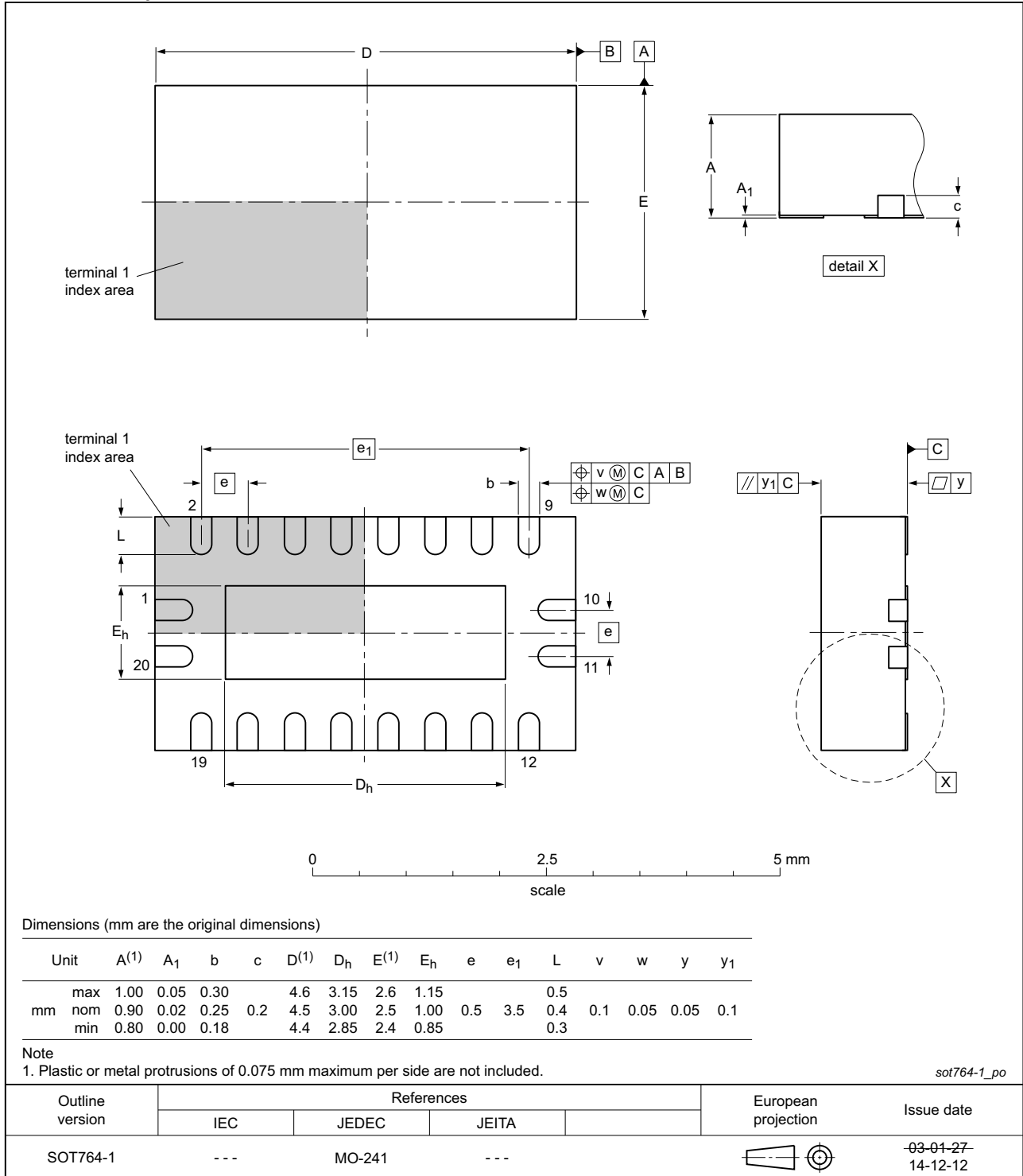


Fig 12. Package outline SOT764-1 (DHVQFN20)

13. Abbreviations

Table 11. Abbreviations

Acronym	Description
CDM	Charge Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	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:	<ul style="list-style-type: none"> Added type number 74AHCV541ABQ (SOT764-1) 			
74AHCV541A v.5	20161107	Product data sheet	-	74AHCV541A v.4
Modifications:	<ul style="list-style-type: none"> Type number 74AHCV541ABQ removed. 			
74AHCV541A v.4	20160420	Product data sheet	-	74AHCV541A v.3
Modifications:	<ul style="list-style-type: none"> Figure 1 updated. 			
74AHCV541A v.3	20160224	Product data sheet	-	74AHCV541A v.2
Modifications:	<ul style="list-style-type: none"> Table 7: C_{PD} value corrected (errata). 			
74AHCV541A v.2	20160126	Product data sheet	-	74AHCV541A v.1
Modifications:	<ul style="list-style-type: none"> Table 7: 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".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <http://www.nexperia.com>.

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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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