Octal buffer/line driver; 3-state Rev. 3 — 5 August 2024

**Product data sheet** 

## 1. General description

The 74HC541-Q100; 74HCT541-Q100 is an octal non-inverting buffer/line driver with 3-state outputs. The device features two output-enables ( $\overline{OE1}$  and  $\overline{OE2}$ ). A HIGH on  $\overline{OEn}$  causes the outputs to assume a high-impedance OFF-state. Inputs include clamp diodes that enable the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

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
- Wide supply voltage range from 2.0 V to 6.0 V
- CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Non-Inverting outputs
- Complies with JEDEC standards:
  - JESD8C (2.7 V to 3.6 V)
  - JESD7A (2.0 V to 6.0 V)
- Input levels:
  - For 74HC541-Q100: CMOS levels
  - For 74HCT541-Q100: TTL levels
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V

## 3. Ordering information

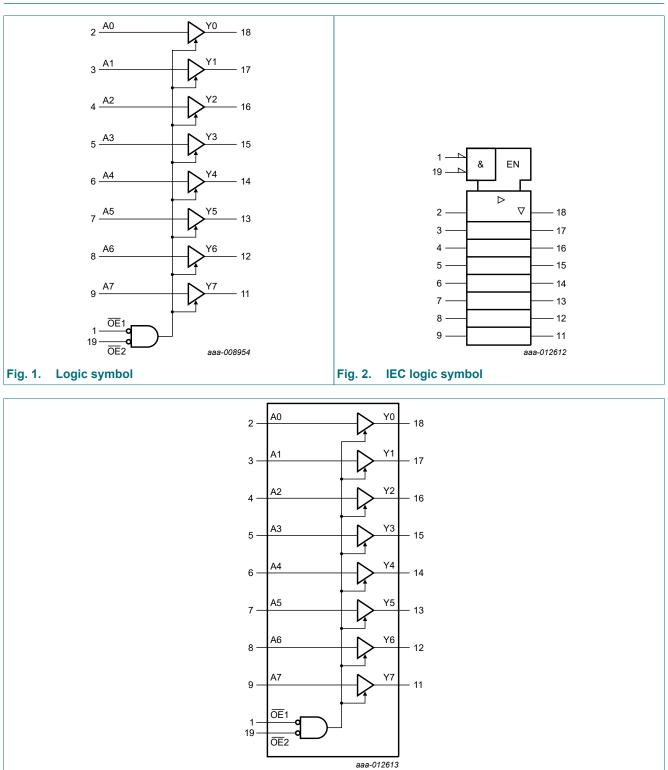
#### Table 1. Ordering information

Type number	Package										
	Temperature range	Name	Description	Version							
74HC541D-Q100 74HCT541D-Q100	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	<u>SOT163-1</u>							
74HC541PW-Q100 74HCT541PW-Q100	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	<u>SOT360-1</u>							

# nexperia

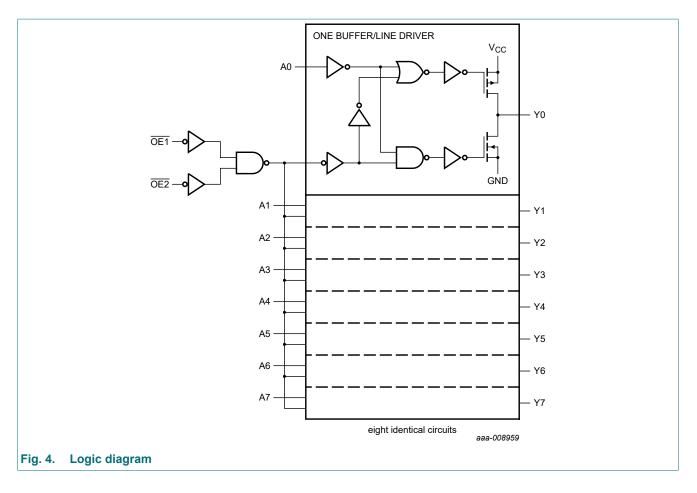
#### Octal buffer/line driver; 3-state

## 4. Functional diagram

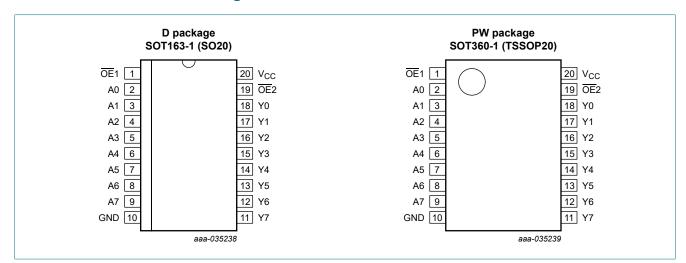


#### Fig. 3. Functional diagram

#### Octal buffer/line driver; 3-state



## 5. Pinning information



#### 5.1. Pinning

### 5.2. Pin description

Symbol	Pin	Description
OE1, OE2	1, 19	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
V <sub>cc</sub>	20	supply voltage

## 6. Functional description

#### Table 3. Functional table

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

		Input	Output
OE1	OE2	An	Yn
L	L	L	L
L	L	Н	Н
Х	Н	Х	Z
Н	Х	Х	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 <sub>CC</sub>	supply voltage			-0.5	+7	V
I <sub>IK</sub>	input clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V	[1]	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_{\rm O}$ < -0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	[1]	-	±20	mA
I <sub>O</sub>	output current	-0.5 V < V <sub>O</sub> < V <sub>CC</sub> + 0.5 V		-	±35	mA
I <sub>CC</sub>	supply current			-	70	mA
I <sub>GND</sub>	ground current			-70	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	total power dissipation		[2]	-	500	mW

The input and output voltage ratings may be exceeded if the input and output current ratings are observed. [1] [2]

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

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

## 8. Recommended operating conditions

#### Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC541-Q100			74HCT541-Q100			Unit
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	-	-	-	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	-	-	-	ns/V

## 9. Static characteristics

#### Table 6. Static characteristics

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

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Мах	Min	Мах	Min	Max	1
74HC54	1-Q100							1	1	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
VIL	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
	V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V	
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I <sub>O</sub> = -6.0 mA; V <sub>CC</sub> = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I <sub>O</sub> = -7.8 mA; V <sub>CC</sub> = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 6.0 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I <sub>O</sub> = 7.8 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
I	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0$ V	-	-	±0.1	-	±1.0	-	±1.0	μA
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 6.0 \text{ V};$ $V_{O} = V_{CC} \text{ or GND}$	-	-	±0.5	-	±5.0	-	±10	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	8.0	-	80	-	160	μA

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
CI	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT5	41-Q100	1						1	1	
V <sub>IH</sub>	HIGH-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -6.0 mA	3.98	4.32	-	3.84	-	3.7	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 20 μA;	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 6.0 mA;	-	0.16	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_1 = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	±0.1	-	±1.0	-	±1.0	μA
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 5.5 \text{ V};$ $V_{O} = V_{CC} \text{ or GND}$	-	-	±0.5	-	±5.0	-	±10	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	8.0	-	80	-	160	μA
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A};$ other inputs at $V_{CC}$ or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V								
		An input	-	70	252	-	315	-	343	μA
		OE1 input	-	150	540	-	675	-	735	μA
		OE2 input	-	100	360	-	450	-	490	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF

## **10.** Dynamic characteristics

#### Table 7. Dynamic characteristics

GND = 0 V;  $C_L = 50 pF$ ; for test circuit, see Fig. 7.

Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC54 <sup>-</sup>	1-Q100								1	
t <sub>pd</sub>	propagation	An to Yn; see Fig. 5 [1]								
	delay	V <sub>CC</sub> = 2.0 V	-	33	115	-	145	-	175	ns
	V <sub>CC</sub> = 4.5 V	-	12	23	-	29	-	35	ns	
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	10	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	10	20	-	25	-	30	ns
t <sub>en</sub>	enable time	OEn to Yn; see Fig. 6 [1]								
		V <sub>CC</sub> = 2.0 V	-	55	160	-	200	-	240	ns
		V <sub>CC</sub> = 4.5 V	-	20	32	-	40	-	48	ns
		V <sub>CC</sub> = 6.0 V	-	16	27	-	34	-	41	ns

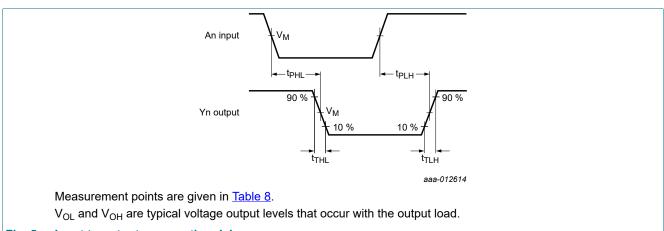
Symbol	Parameter	Conditions		25 °C		-40 °C te	o +85 °C	-40 °C te	o +125 °C	Unit
			Min	Тур	Max	Min	Мах	Min	Max	
t <sub>dis</sub>	disable time	OEn to Yn; see Fig. 6 [1]								
		V <sub>CC</sub> = 2.0 V	-	61	160	-	200	-	240	ns
		V <sub>CC</sub> = 4.5 V	-	22	32	-	40	-	48	ns
		V <sub>CC</sub> = 6.0 V	-	18	27	-	34	-	41	ns
t <sub>t</sub>	transition	see <u>Fig. 5</u> [1]								
	time	V <sub>CC</sub> = 2.0 V	-	14	60	-	75	-	90	ns
		V <sub>CC</sub> = 4.5 V	-	5	12	-	15	-	18	ns
		V <sub>CC</sub> = 6.0 V	-	4	10	-	13	-	15	ns
C <sub>PD</sub>	power dissipation capacitance	per package; [2] $V_1 = GND$ to $V_{CC}$	-	37	-	-	-	-	-	pF
74HCT5	41-Q100	1		1		I	I	1	1	-
t <sub>pd</sub>	propagation	An to Yn; see Fig. 5 [1]								
	delay	V <sub>CC</sub> = 4.5 V	-	15	28	-	35	-	42	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	12	-	-	-	-	-	ns
t <sub>en</sub>	enable time	OEn to Yn; see Fig. 6 [1]								
		V <sub>CC</sub> = 4.5 V	-	21	35	-	44	-	53	ns
t <sub>dis</sub>	disable time	OEn to Yn; see Fig. 6 [1]								
		V <sub>CC</sub> = 4.5 V	-	21	35	-	44	-	53	ns
tt	transition time	$V_{CC} = 4.5 V; see Fig. 5$ [1]	-	5	12	-	15	-	18	ns
C <sub>PD</sub>	power dissipation capacitance	per package; [2] $V_I = GND$ to $V_{CC} - 1.5 V$	-	39	-	-	-	-	-	pF

t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.
 t<sub>en</sub> is the same as t<sub>PLL</sub> and t<sub>PZH</sub>.
 t<sub>dis</sub> is the same as t<sub>PLZ</sub> and t<sub>PHZ</sub>.
 t<sub>is</sub> is the same as t<sub>PLZ</sub> and t<sub>PHZ</sub>.

t<sub>i</sub> is the same as  $t_{THL}$  and  $t_{TLH}$ . [2]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ 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:

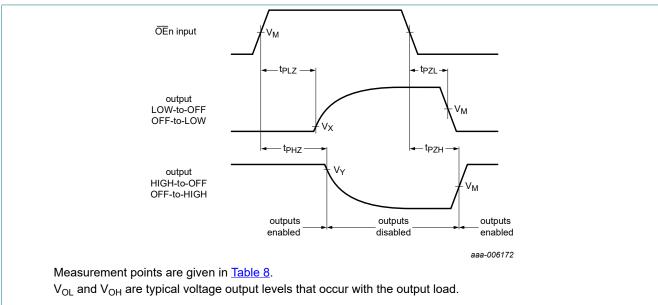
N = number of inputs switching;  $\Sigma(C_L \times V_{CC}^2 \times f_0)$  = sum of outputs.

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## 10.1. Waveforms and test circuit

#### Fig. 5. Input to output propagation delays

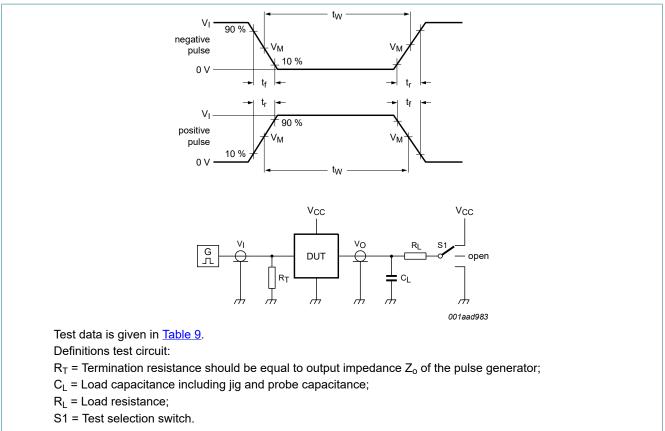


#### Fig. 6. 3-state enable and disable times

#### Table 8. Measurement points

Туре	Input	Output					
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>			
74HC541-Q100	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	0.1 × V <sub>CC</sub>	0.9 × V <sub>CC</sub>			
74HCT541-Q100	1.3 V	1.3 V	0.1 × V <sub>CC</sub>	$0.9 \times V_{CC}$			

#### Octal buffer/line driver; 3-state

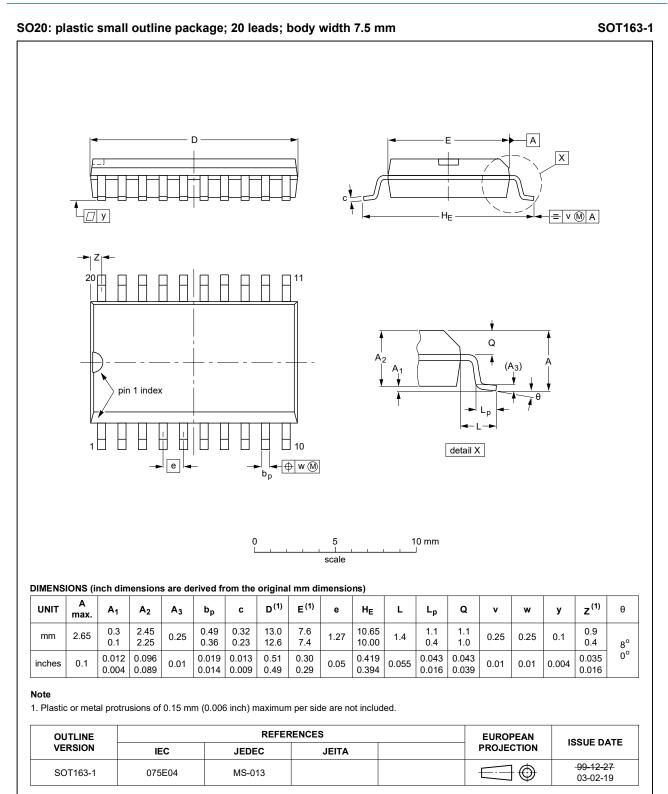


#### Fig. 7. Test circuit for measuring switching times

#### Table 9. Test data

Туре	Input		Load		S1 position			
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>	
74HC541-Q100	V <sub>CC</sub>	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>	
74HCT541-Q100	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>	

## 11. Package outline



#### Fig. 8. Package outline SOT163-1 (SO20)

74HC\_HCT541\_Q100

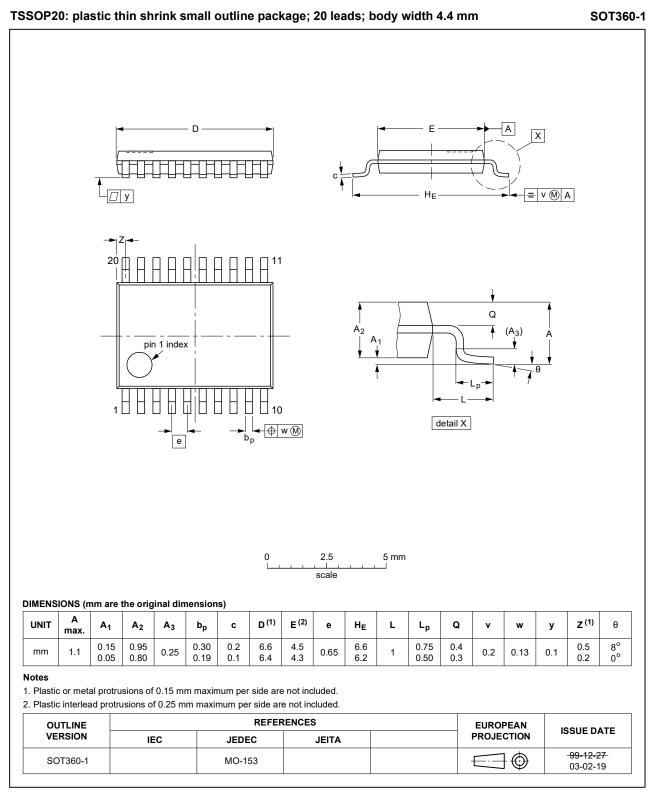


Fig. 9. Package outline SOT360-1 (TSSOP20)

<sup>74</sup>HC\_HCT541\_Q100

## 12. Abbreviations

Table 10. Abbrev	viations
Acronym	Description
ANSI	American National Standards Institute
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
ESDA	ElectroStatic Discharge Association
НВМ	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

## 13. Revision history

Table 11. Revision history						
Document ID	Release date	Data sheet status	Change notice	Supersedes		
74HC_HCT541_Q100 v.3	20240805	Product data sheet	-	74HC_HCT541_Q100 v.2		
Modifications:	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.					
74HC_HCT541_Q100 v.2	20210712	Product data sheet	-	74HC_HCT541_Q100 v.1		
Modifications:	guidelines c Legal texts <u>Section 2</u> u <u>Section 7</u> : C	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li><u>Section 2</u> updated.</li> <li><u>Section 7</u>: Derating values for P<sub>tot</sub> total power dissipation updated.</li> <li><u>Section 9</u>: Conditions for I<sub>OZ</sub> have changed. (errata)</li> </ul>				
74HC_HCT541_Q100 v.1	20140619	Product data sheet	-	-		

## 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.

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