74VHC541-Q100; 74VHCT541-Q100 Octal buffer/line driver; 3-state Rev. 1 – 4 June 2013

Product data sheet

1. **General description**

The 74VHC541-Q100; 74VHCT541-Q100 are high-speed Si-gate CMOS devices.

The 74VHC541-Q100; 74VHCT541-Q100 are octal non-inverting buffer/line drivers with 3-state bus compatible outputs.

The output enable inputs $\overline{OE0}$ and $\overline{OE1}$ control the 3-state outputs.

A HIGH on \overline{OE} n causes the outputs to assume a high-impedance OFF-state.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

Features and benefits 2.

- Automotive product gualification in accordance with AEC-Q100 (Grade 1) Specified from –40 °C to +85 °C and from –40 °C to +125 °C
- Balanced propagation delays
- All inputs have a Schmitt-trigger action
- Inputs accept voltages higher than V_{CC}
- The 74VHC541-Q100 operates with CMOS input level
- The 74VHCT541-Q100 operates with TTL input level
- ESD protection:
 - MIL-STD-883, method 3015 exceeds 2000 V
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)
- Multiple package options

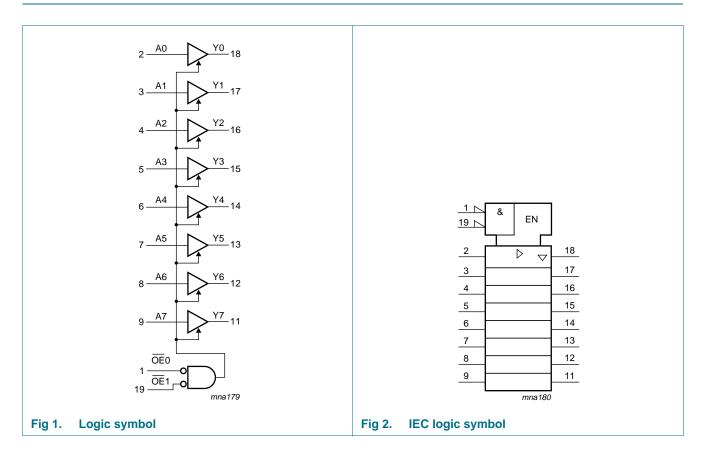


Octal buffer/line driver; 3-state

3. Ordering information

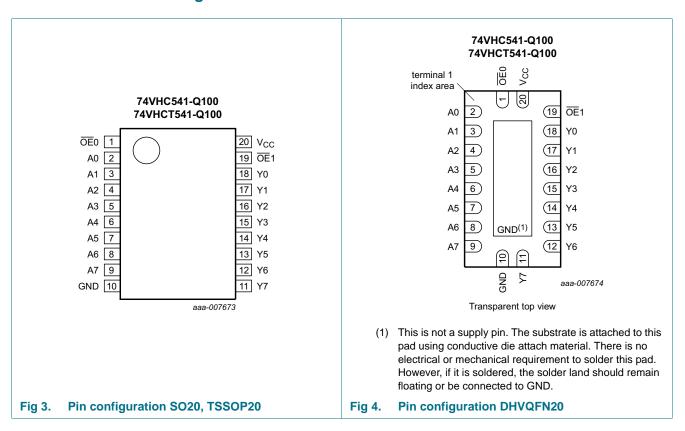
Table 1. Ordering information											
Type number	Package										
	Temperature range	Name	Description	Version							
74VHC541D-Q100	–40 °C to +125 °C	SO20	plastic small outline package; 20 leads;	SOT163-1							
74VHCT541D-Q100			body width 7.5 mm								
74VHC541PW-Q100	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads;	SOT360-							
74VHCT541PW-Q100			body width 4.4 mm								
74VHC541BQ-Q100	–40 °C to +125 °C	DHVQFN20	plastic dual-in-line compatible thermal enhanced	SOT764-1							
74VHCT541BQ-Q100			very thin quad flat package; no leads; 20 terminals; body $2.5 \times 4.5 \times 0.85$ mm								

4. Functional diagram



Octal buffer/line driver; 3-state

Pinning information 5.



5.2 Pin description

Table 2.	Pin description	
Symbol	Pin	Description
OE0	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

5.1 Pinning

Octal buffer/line driver; 3-state

6. Functional description

Control		Input	Output
OE0	OE1	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		-0.5	+7.0	V
I _{IK}	input clamping current	V _I < -0.5 V	<u>[1]</u> –20	-	mA
Ι _{ΟΚ}	output clamping current	$V_{\rm O}$ < –0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	<u>[1]</u> _	±20	mA
Ι _Ο	output current	$V_{O} = -0.5 \text{ V}$ to (V_{CC} + 0.5 V)	-	±25	mA
I _{CC}	supply current		-	75	mA
I _{GND}	ground current		-75	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 \ ^{\circ}C \ to +125 \ ^{\circ}C$			
	SO20 package		[2] _	500	mW
	TSSOP20 package		<u>[3]</u>	500	mW
	DHVQFN20 package		<u>[4]</u> _	500	mW
-					

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

[2] P_{tot} derates linearly with 8 mW/K above 70 °C.

[3] P_{tot} derates linearly with 5.5 mW/K above 60 °C.

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

Octal buffer/line driver; 3-state

8. Recommended operating conditions

Table 5. Recommended operating conditions

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

Symbol	Parameter	Conditions	74VH0	C541-Q10	00	74VH0	74VHCT541-Q100		
			Min	Тур	Max	Min	Тур	Max	
V _{CC}	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	0	-	5.5	V
Vo	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	V_{CC} = 3.3 V \pm 0.3 V	-	-	100	-	-	-	ns/V
		$V_{CC} = 5.0 \text{ V} \pm 0.5 \text{ V}$	-	-	20	-	-	20	ns/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	Тур	Max	Min	Max	Min	Max	
For type	74VHC541-Q1	00								
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V _{CC} = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V _{IL}	LOW-level	V _{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V _{CC} = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V _{ОН}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_{O} = -50 \ \mu A; \ V_{CC} = 2.0 \ V$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_{O} = -50 \ \mu A; \ V_{CC} = 3.0 \ V$	2.9	3.0	-	2.9	-	2.9	-	V
		$I_{O} = -50 \ \mu A; \ V_{CC} = 4.5 \ V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	V
		$I_{O} = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.8	-	3.70	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_0 = 50 \ \mu A; \ V_{CC} = 2.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 50 \ \mu A; \ V_{CC} = 3.0 \ V$	-	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
		$I_0 = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
		$I_0 = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
I _{OZ}	OFF-state output current		-	-	±0.25	-	±2.5	-	±10.0	μA
I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 0 V$ to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
lcc	supply current		-	-	4.0	-	40	-	80	μA
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Octal buffer/line driver; 3-state

Symbol	Parameter	Conditions		25 °C		_40 °C	to +85 °C	–40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
CI	input capacitance		-	3.0	10	-	10	-	10	pF
Co	output capacitance		-	4.0	-	-	-	-	-	pF
For type	74VHCT541-Q	100								
V _{IH}	HIGH-level input voltage	V_{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V_{CC} = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -8.0 mA	3.94	-	-	3.8	-	3.70	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 V$								
	output voltage	I _O = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
I _{OZ}	OFF-state output current	per input pin; $V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 5.5 V$; $I_O = 0 A$; $V_O = V_{CC}$ or GND; other pins at V_{CC} or GND	-	-	±0.25	-	±2.5	-	±10.0	μA
lı	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 0$ V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
I _{CC}	supply current		-	-	4.0	-	40	-	80	μΑ
ΔI _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A};$ other pins at V_{CC} or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
CI	input capacitance		-	3	10	-	10	-	10	pF
Co	output capacitance		-	4.0	-	-	-	-	-	pF

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

Octal buffer/line driver; 3-state

10. Dynamic characteristics

Table 7.Dynamic characteristics

GND = 0 V. For test circuit, see Figure 7.

Symbol	Parameter	Conditions			25 °C		–40 °C	to +85 °C	–40 °C t	o +125 °C	Unit
				Min	Typ[1]	Max	Min	Max	Min	Max	
For type	74VHC541-Q	100									
t _{pd}	propagation	An to Yn; see Figure 5	[2]								
	delay	V_{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	5.0	7.0	1.0	8.5	1.0	9.0	ns
		C _L = 50 pF		-	7.0	10.5	1.0	12.0	1.0	13.5	ns
		V_{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.5	5.0	1.0	6.0	1.0	6.5	ns
		C _L = 50 pF			5.0	7.0	1.0	8.0	1.0	9.0	ns
t _{en}	enable time	OEn to Yn; see Figure 6	[2]								
		V_{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	5.5	10.5	1.0	11.0	1.0	13.5	ns
		C _L = 50 pF		-	7.5	14.0	1.0	16.0	1.0	17.5	ns
		V_{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.5	7.2	1.0	8.5	1.0	9.0	ns
		C _L = 50 pF		-	5.0	9.2	1.0	10.5	1.0	11.5	ns
t _{dis}	disable time	OEn to Yn; see Figure 6	[2]								
		V_{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	6.0	11.0	1.0	12.0	1.0	14.0	ns
		C _L = 50 pF		-	9.5	15.4	1.0	17.5	1.0	19.5	ns
		V_{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	4.5	7.5	1.0	8.0	1.0	9.5	ns
		C _L = 50 pF		-	6.5	8.8	1.0	10.0	1.0	11.0	ns
C _{PD}	power dissipation	$\begin{array}{l} C_L = 50 \text{ pF}; \text{f}_i = 1 \text{ MHz}; \\ V_I = \text{GND to } V_{\text{CC}} \end{array}$	<u>[3]</u>	-	10	-	-	-	-	-	pF

capacitance

Octal buffer/line driver; 3-state

Symbol	Parameter	Conditions			25 °C		–40 °C	to +85 °C	–40 °C t	to +125 °C	Unit
				Min	Typ[1]	Max	Min	Max	Min	Max	-
For type	74VHCT541-	Q100									
t _{pd}	propagation	An to Yn; see Figure 5	[2]								
	delay	V_{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.5	5.5	1.0	6.5	1.0	7.0	ns
		C _L = 50 pF		-	5.0	8.5	1.0	9.5	1.0	11.0	ns
t _{en}	enable time	OEn to Yn; see Figure 6									
		V_{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	4.0	7.0	1.0	8.0	1.0	9.0	ns
		C _L = 50 pF		-	5.5	10.0	1.0	12.0	1.0	12.5	ns
t _{dis}	disable time	OEn to Yn; see Figure 6	[2]								
		V_{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	5.0	7.0	1.0	8.0	1.0	9.0	ns
		C _L = 50 pF		-	7.0	10.0	1.0	12.0	1.0	12.5	ns
C _{PD}	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}; \text{ f} = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	<u>[3]</u>	-	12	-	-	-	-	-	pF

Table 7. Dynamic characteristics ... continued

[1] Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V and V_{CC} = 5.0 V).

[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;

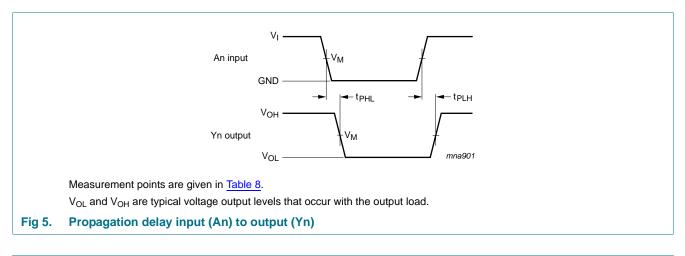
 f_o = output frequency in MHz;

 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in Volts.

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11. Waveforms



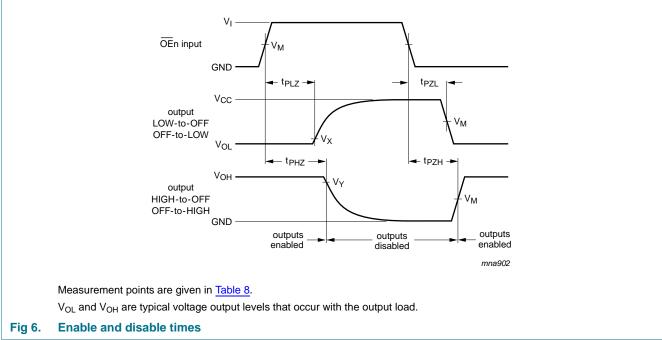


Table 8.Measurement points

Туре	Input	Output					
	V _M	V _M	V _X	V _Y			
74VHC541-Q100	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V			
74VHCT541-Q100	1.5 V	0.5V _{CC}	V _{OL} + 0.3 V	$V_{OH} - 0.3 \ V$			

74VHC_VHCT541_Q100

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74VHC541-Q100; 74VHCT541-Q100

Octal buffer/line driver; 3-state

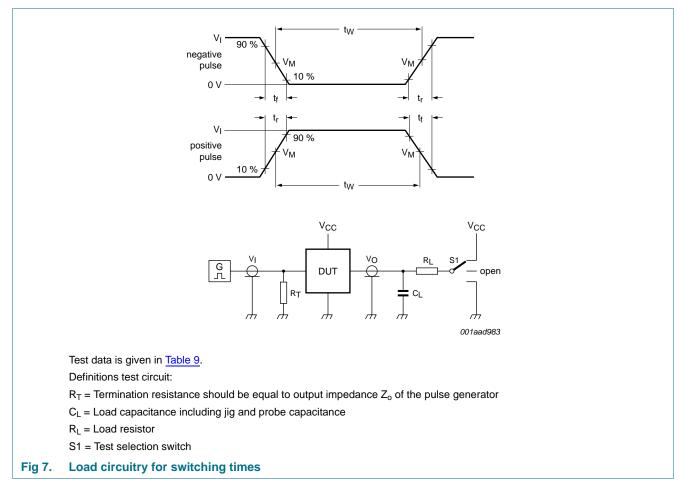


Table 9. Test data

Туре	Input		Load		S1 position			
	VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
74VHC541-Q100	V _{CC}	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	
74VHCT541-Q100	3.0 V	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	

Octal buffer/line driver; 3-state

12. Package outline

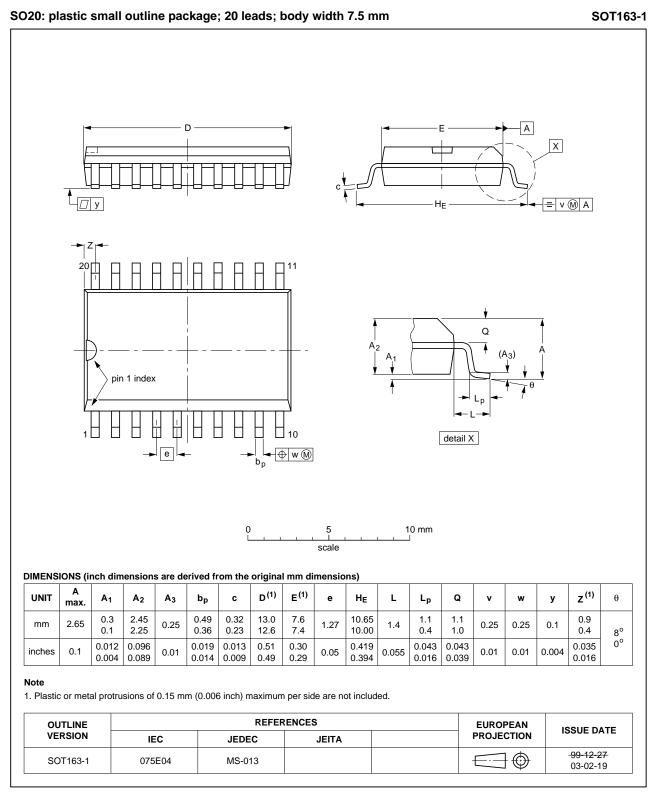


Fig 8. Package outline SOT163-1 (SO20)

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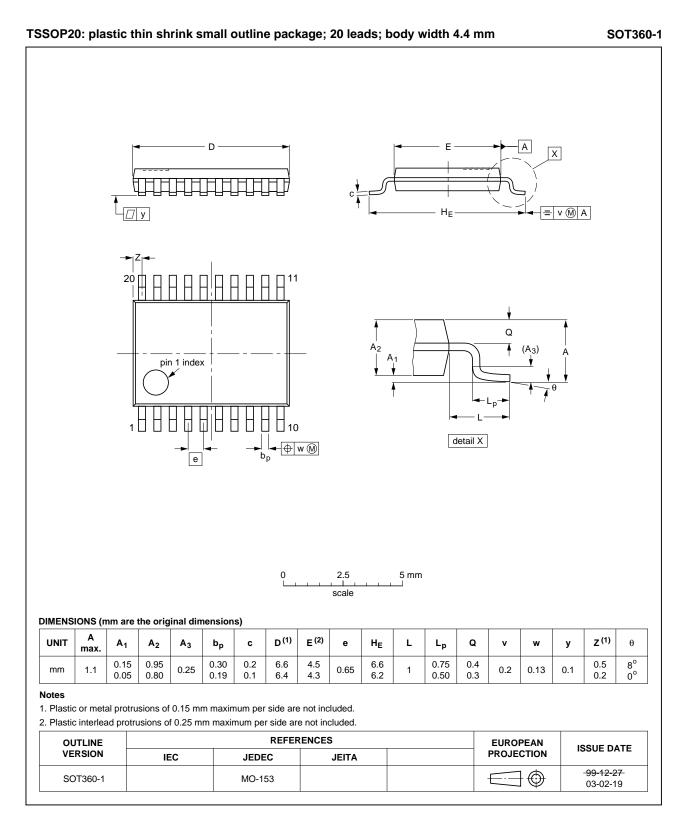
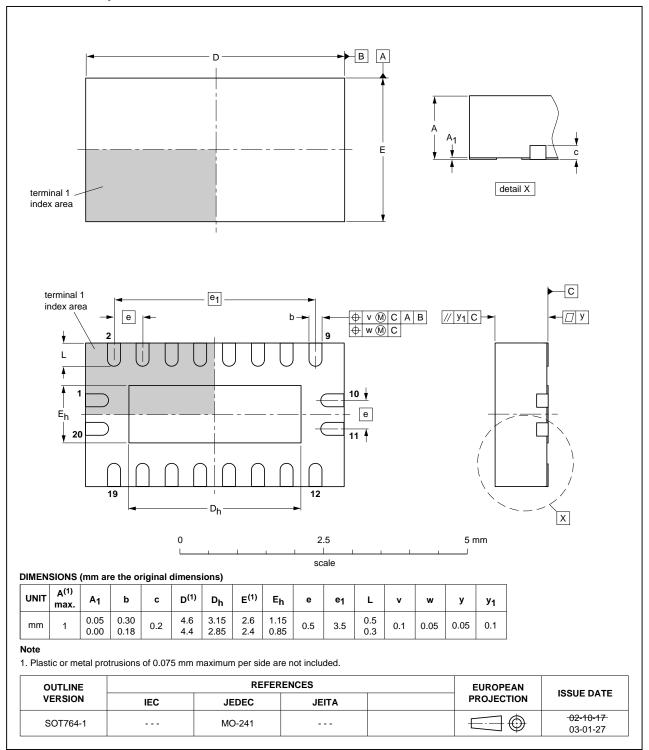


Fig 9. Package outline SOT360-1 (TSSOP20)

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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.	able 10. Abbreviations				
Acronym	Description				
CDM	Charged Device Model				
CMOS	Complementary Metal Oxide Semiconductor				
DUT	Device Under Test				
ESD	ElectroStatic Discharge				
HBM	Human Body Model				
MIL	Military				
MM	Machine Model				
TTL	Transistor-Transistor Logic				

14. Revision history

Table 11. Revision hist	Revision history						
Document ID	Release date	Data sheet status	Change notice	Supersedes			
74VHC_VHCT541 v.1	20130604	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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Octal buffer/line driver; 3-state

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