

74AHC2G241-Q100; 74AHCT2G241-Q100

Dual buffer/line driver; 3-state

Rev. 1 — 12 November 2013

Product data sheet

1. General description

The 74AHC2G241-Q100 and 74AHCT2G241-Q100 are high-speed Si-gate CMOS devices. They provide a dual non-inverting buffer/line driver with 3-state outputs. The 3-state outputs are controlled by the output enable inputs $\overline{1OE}$ and 2OE. A HIGH level at pin $\overline{1OE}$ causes output 1Y to assume a high-impedance OFF-state. A LOW level at pin 2OE causes output 2Y to assume a high-impedance OFF-state. Schmitt-trigger action at all inputs makes the circuit highly tolerant for slower input rise and fall times.

The AHC device has CMOS input switching levels and supply voltage range 2 V to 5.5 V.

The AHCT device has TTL input switching levels and supply voltage range 4.5 V to 5.5 V.

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 $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ and from $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$
- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- Multiple package options
- 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)



3. Ordering information

Table 1. Ordering information

Type number	Package			Version
	Temperature range	Name	Description	
74AHC2G241DP-Q100 74AHCT2G241DP-Q100	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2
74AHC2G241DC-Q100 74AHCT2G241DC-Q100	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1

4. Marking

Table 2. Marking

Type number	Marking code ^[1]
74AHC2G241DP-Q100	A241
74AHCT2G241DP-Q100	C241
74AHC2G241DC-Q100	A41
74AHCT2G241DC-Q100	C41

[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram

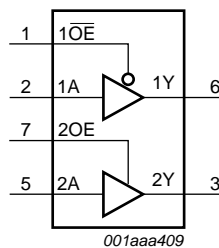


Fig 1. Logic symbol

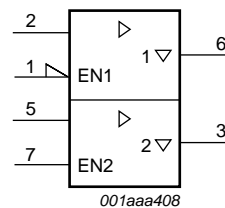


Fig 2. IEC logic symbol

6. Pinning information

6.1 Pinning

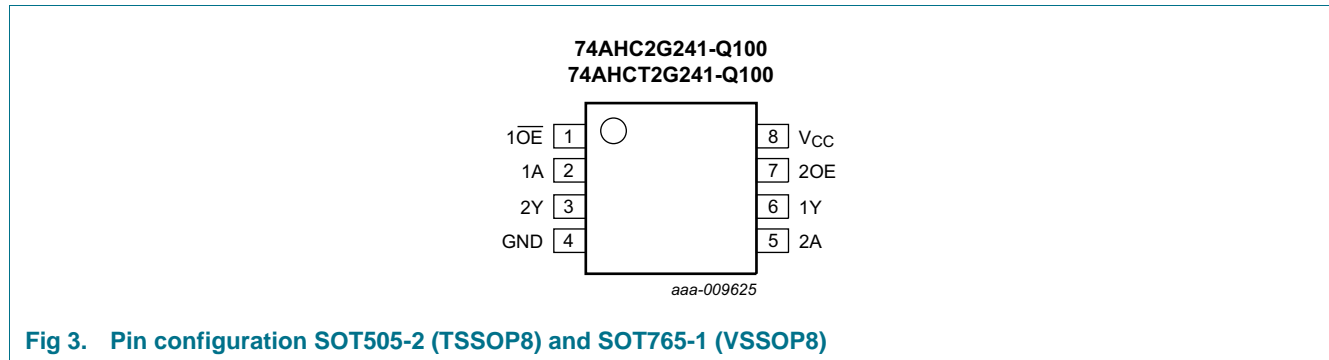


Fig 3. Pin configuration SOT505-2 (TSSOP8) and SOT765-1 (VSSOP8)

6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
$\overline{1OE}$	1	output enable input (active LOW)
1A	2	data input
2Y	3	data output
GND	4	ground (0 V)
2A	5	data input
1Y	6	data output
2OE	7	output enable input (active HIGH)
V _{CC}	8	supply voltage

7. Functional description

Table 4. Function table^[1]

Input		Output	Input		Output
$\overline{1OE}$	1A	1Y	2OE	2A	2Y
L	L	L	H	L	L
L	H	H	H	H	H
H	X	Z	L	X	Z

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

8. Limiting values

Table 5. 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
I_{IK}	input clamping current	$V_I < -0.5$ V	[1] -20	-	mA
I_{OK}	output clamping current	$V_O < -0.5$ V or $V_O > V_{CC} + 0.5$ V	[1] -	± 20	mA
I_O	output current	-0.5 V $< V_O < V_{CC} + 0.5$ 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	$T_{amb} = -40$ °C to +125 °C	[2] -	250	mW

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

[2] For TSSOP8 package: above 55 °C the value of P_{tot} derates linearly with 2.5 mW/K.
For VSSOP8 package: above 110 °C the value of P_{tot} derates linearly with 8 mW/K.

9. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74AHC2G241-Q100			74AHCT2G241-Q100			Unit
			Min	Typ	Max	Min	Typ	Max	
V_{CC}	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
V_I	input voltage		0	-	5.5	0	-	5.5	V
V_O	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 ± 0.3 V	-	-	100	-	-	-	ns/V
		$V_{CC} = 5.0$ V ± 0.5 V	-	-	20	-	-	20	ns/V

10. Static characteristics

Table 7. 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	
74AHC2G241-Q100										
V _{IH}	HIGH-level input voltage	V _{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
		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 input voltage	V _{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
		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 _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}								
		I _O = -50 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I _O = -50 μA; V _{CC} = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I _O = -50 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
I _O = -8.0 mA; V _{CC} = 4.5 V	3.94	-	-	3.8	-	3.70	-	V		
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}								
		I _O = 50 μA; V _{CC} = 2.0 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 = 4.0 mA; V _{CC} = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
I _O = 8.0 mA; V _{CC} = 4.5 V	-	-	0.36	-	0.44	-	0.55	V		
I _{OZ}	OFF-state output current	V _I = V _{CC} or GND; V _{CC} = 5.5 V	-	-	0.25	-	2.5	-	10	μA
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	1.0	-	10	-	40	μA
C _I	input capacitance		-	1.5	10	-	10	-	10	pF
74AHCT2G241-Q100										
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 output voltage	V _I = V _{IH} or V _{IL} ; V _{CC} = 4.5 V								
		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 output voltage	V _I = V _{IH} or V _{IL} ; V _{CC} = 4.5 V								
		I _O = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V

Table 7. 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	
I_{OZ}	OFF-state output current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	0.25	-	2.5	-	10	μ A
I_I	input leakage current	$V_I = 5.5$ V or GND; $V_{CC} = 0$ V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μ A
I_{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.0	-	10	-	40	μ A
ΔI_{CC}	additional supply current	per input pin; $V_I = 3.4$ V; other inputs at V_{CC} or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.35	-	1.5	-	1.5	mA
C_I	input capacitance		-	1.5	10	-	10	-	10	pF

11. Dynamic characteristics

Table 8. Dynamic characteristics
 GND = 0 V; for test circuit see [Figure 7](#).

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
74AHC2G241-Q100										
t_{pd}	propagation delay	nA to nY; see Figure 4								
		$V_{CC} = 3.0$ V to 3.6 V								
		$C_L = 15$ pF	-	4.7	8.0	1.0	9.5	1.0	11.5	ns
		$C_L = 50$ pF	-	6.6	11.5	1.0	13.0	1.0	14.5	ns
		$V_{CC} = 4.5$ V to 5.5 V								
		$C_L = 15$ pF	-	3.4	5.5	1.0	6.5	1.0	7.0	ns
t_{en}	enable time	$1\overline{OE}$ to 1Y; see Figure 5								
		$V_{CC} = 3.0$ V to 3.6 V								
		$C_L = 15$ pF	-	5.0	8.0	1.0	9.5	1.0	11.5	ns
		$C_L = 50$ pF	-	6.9	11.5	1.0	13.0	1.0	14.5	ns
		$V_{CC} = 4.5$ V to 5.5 V								
		$C_L = 15$ pF	-	3.6	5.1	1.0	6.0	1.0	6.5	ns
		$C_L = 50$ pF	-	4.9	7.5	1.0	8.5	1.0	9.5	ns
		$2OE$ to 2Y; see Figure 6								
		$V_{CC} = 3.0$ V to 3.6 V								
		$C_L = 15$ pF	-	4.9	8.0	1.0	9.5	1.0	10.0	ns
		$C_L = 50$ pF	-	7.0	11.5	1.0	13.0	1.0	14.5	ns
		$V_{CC} = 4.5$ V to 5.5 V								
$C_L = 15$ pF	-	3.6	5.6	1.0	6.3	1.0	7.0	ns		
$C_L = 50$ pF	-	5.4	8.0	1.0	9.0	1.0	9.5	ns		

Table 8. Dynamic characteristics ...continued
GND = 0 V; for test circuit see Figure 7.

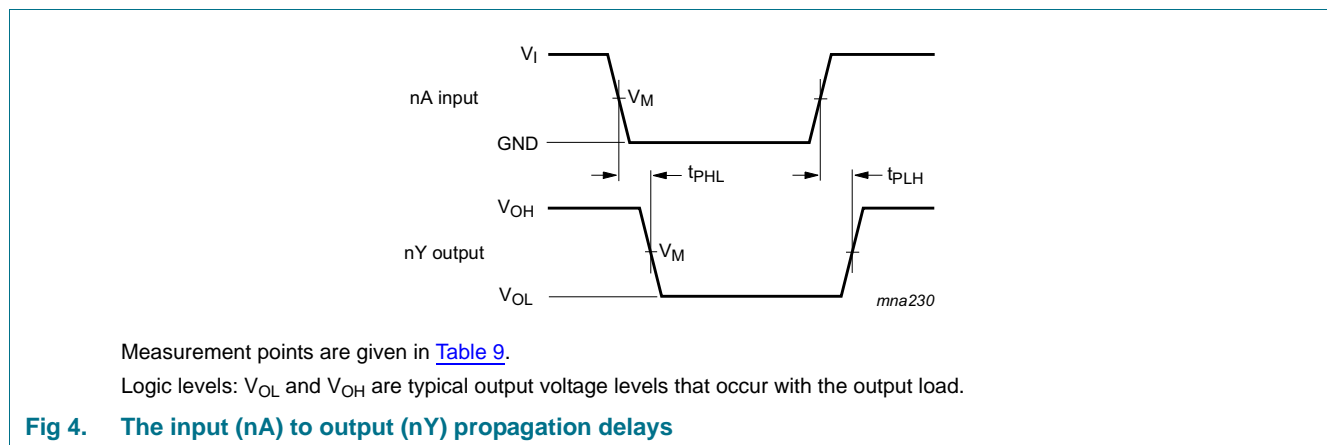
Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
t_{dis}	disable time	$1\overline{OE}$ to 1Y; see Figure 5 [1]								
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$ [2]								
		$C_L = 15\text{ pF}$	-	6.0	9.7	1.0	11.5	1.0	12.5	ns
		$C_L = 50\text{ pF}$	-	8.3	13.2	1.0	15.0	1.0	16.5	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ [3]								
		$C_L = 15\text{ pF}$	-	4.1	6.8	1.0	8.0	1.0	8.5	ns
		$C_L = 50\text{ pF}$	-	5.7	8.8	1.0	10.0	1.0	11.0	ns
		2OE to 2Y; see Figure 6 [1]								
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$ [2]								
		$C_L = 15\text{ pF}$	-	6.3	9.7	1.0	11.5	1.0	12.5	ns
		$C_L = 50\text{ pF}$	-	9.0	13.2	1.0	15.0	1.0	16.5	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ [3]								
$C_L = 15\text{ pF}$	-	4.3	6.8	1.0	8.0	1.0	8.5	ns		
$C_L = 50\text{ pF}$	-	6.1	8.8	1.0	10.0	1.0	11.0	ns		
C_{PD}	power dissipation capacitance	per buffer; $C_L = 50\text{ pF}$; $f_i = 1\text{ MHz}$; $V_I = \text{GND to }V_{CC}$ [4]	-	10	-	-	-	-	-	pF
74AHCT2G241-Q100										
t_{pd}	propagation delay	nA to nY; see Figure 4 [1]								
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ [3]								
		$C_L = 15\text{ pF}$	-	3.4	5.5	1.0	6.5	1.0	7.0	ns
		$C_L = 50\text{ pF}$	-	4.7	7.5	1.0	8.5	1.0	9.5	ns
t_{en}	enable time	$1\overline{OE}$ to 1Y; see Figure 5 [1]								
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ [3]								
		$C_L = 15\text{ pF}$	-	3.9	5.1	1.0	6.0	1.0	6.5	ns
		$C_L = 50\text{ pF}$	-	5.1	7.5	1.0	8.5	1.0	9.5	ns
		2OE to 2Y; see Figure 6 [1]								
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ [3]								
		$C_L = 15\text{ pF}$	-	3.4	5.6	1.0	6.3	1.0	6.5	ns
		$C_L = 50\text{ pF}$	-	4.8	7.5	1.0	9.0	1.0	9.5	ns

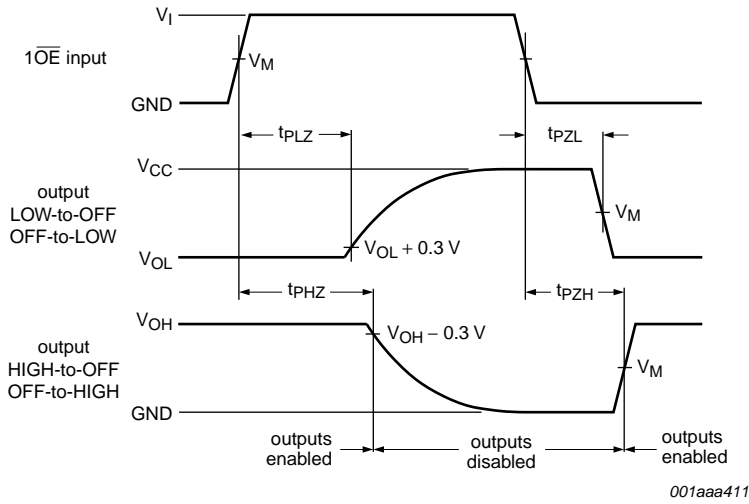
Table 8. Dynamic characteristics ...continued
GND = 0 V; for test circuit see Figure 7.

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Typ	Max	Min	Max	Min	Max		
t_{dis}	disable time	1OE to 1Y; see Figure 5 [1]									
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ [3]									
		$C_L = 15\text{ pF}$	-	4.5	6.8	1.0	8.0	1.0	8.5	ns	
		$C_L = 50\text{ pF}$	-	6.1	8.8	1.0	10.0	1.0	11.0	ns	
		2OE to 2Y; see Figure 6 [1]									
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ [3]									
C_{PD}	power dissipation capacitance	$C_L = 15\text{ pF}$	-	4.0	6.8	1.0	8.0	1.0	8.5	ns	
		$C_L = 50\text{ pF}$	-	5.7	8.8	1.0	10.0	1.0	11.0	ns	
		per buffer; $C_L = 50\text{ pF}; f_i = 1\text{ MHz};$ $V_I = \text{GND to }V_{CC}$	[4]	-	10	-	-	-	-	-	pF

- [1] 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} .
- [2] Typical values are measured at $V_{CC} = 3.3\text{ V}$.
- [3] Typical values are measured at $V_{CC} = 5.0\text{ V}$.
- [4] 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 V.

12. Waveforms and test circuit

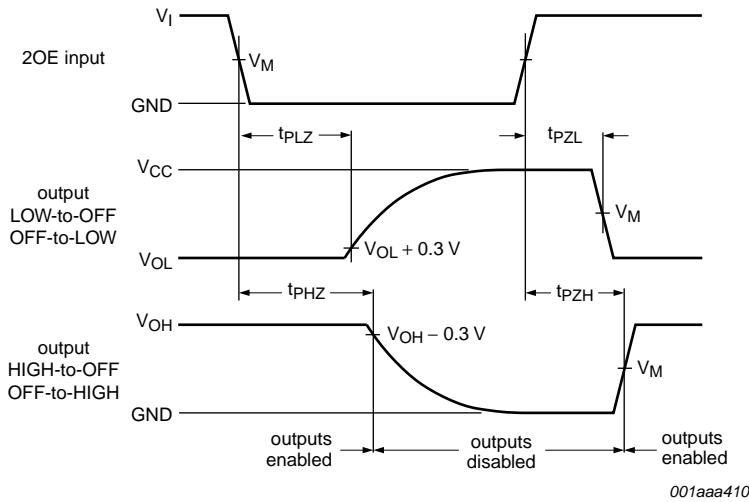




Measurement points are given in [Table 9](#).

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

Fig 5. The input (1OE) to output (1Y) enable and disable times



Measurement points are given in [Table 9](#).

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

Fig 6. The input (2OE) to output (2Y) enable and disable times

Table 9. Measurement points

Type	Input	Output
	V_M	V_M
74AHC2G241-Q100	$0.5V_{CC}$	$0.5V_{CC}$
74AHCT2G241-Q100	1.5 V	$0.5V_{CC}$

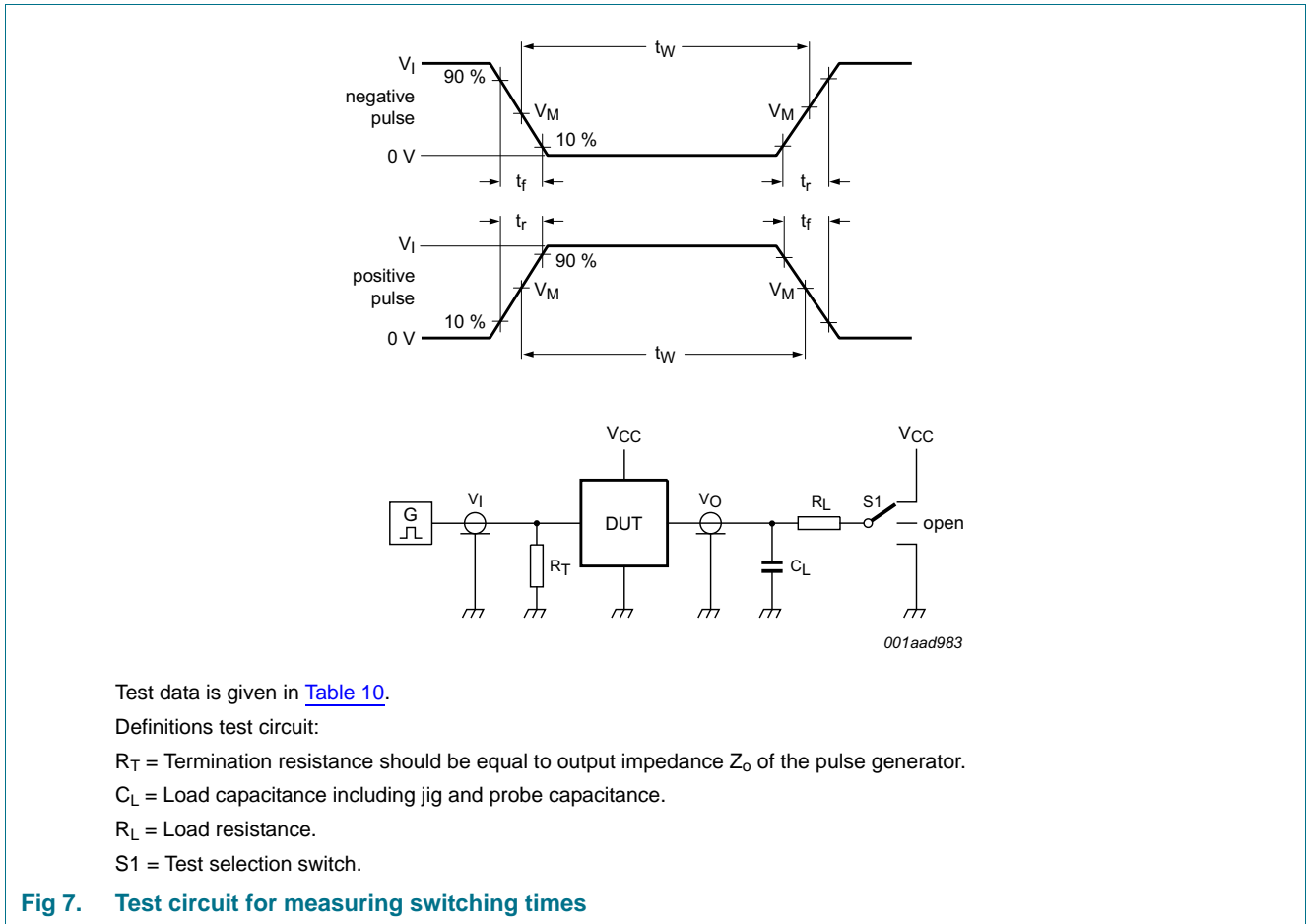


Table 10. Test data

Type	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}
74AHC2G241-Q100	V_{CC}	≤ 3 ns	15 pF, 50 pF	1 k Ω	open	GND	V_{CC}
74AHCT2G241-Q100	3 V	≤ 3 ns	15 pF, 50 pF	1 k Ω	open	GND	V_{CC}

13. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

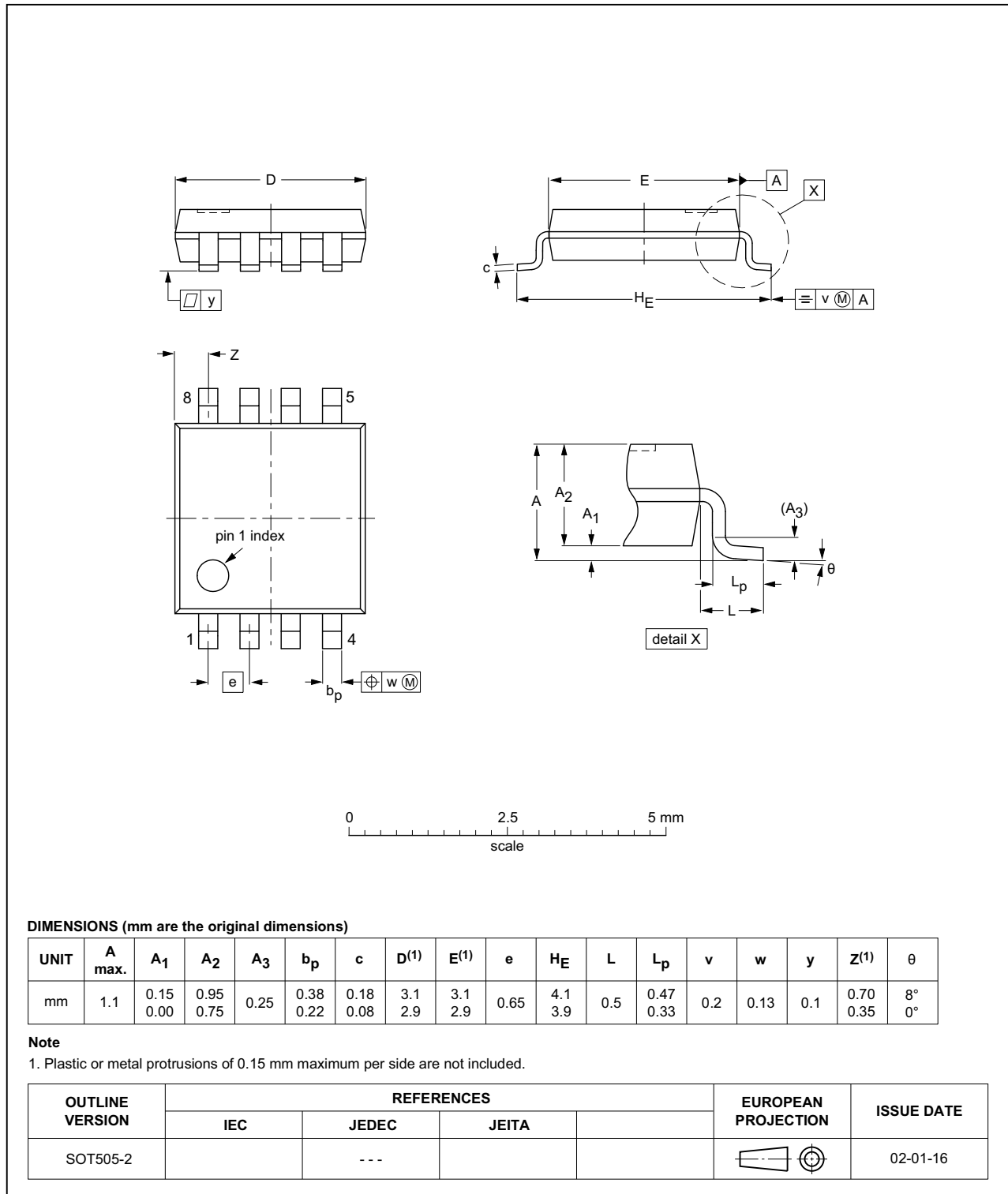


Fig 8. Package outline SOT505-2 (TSSOP8)

VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1

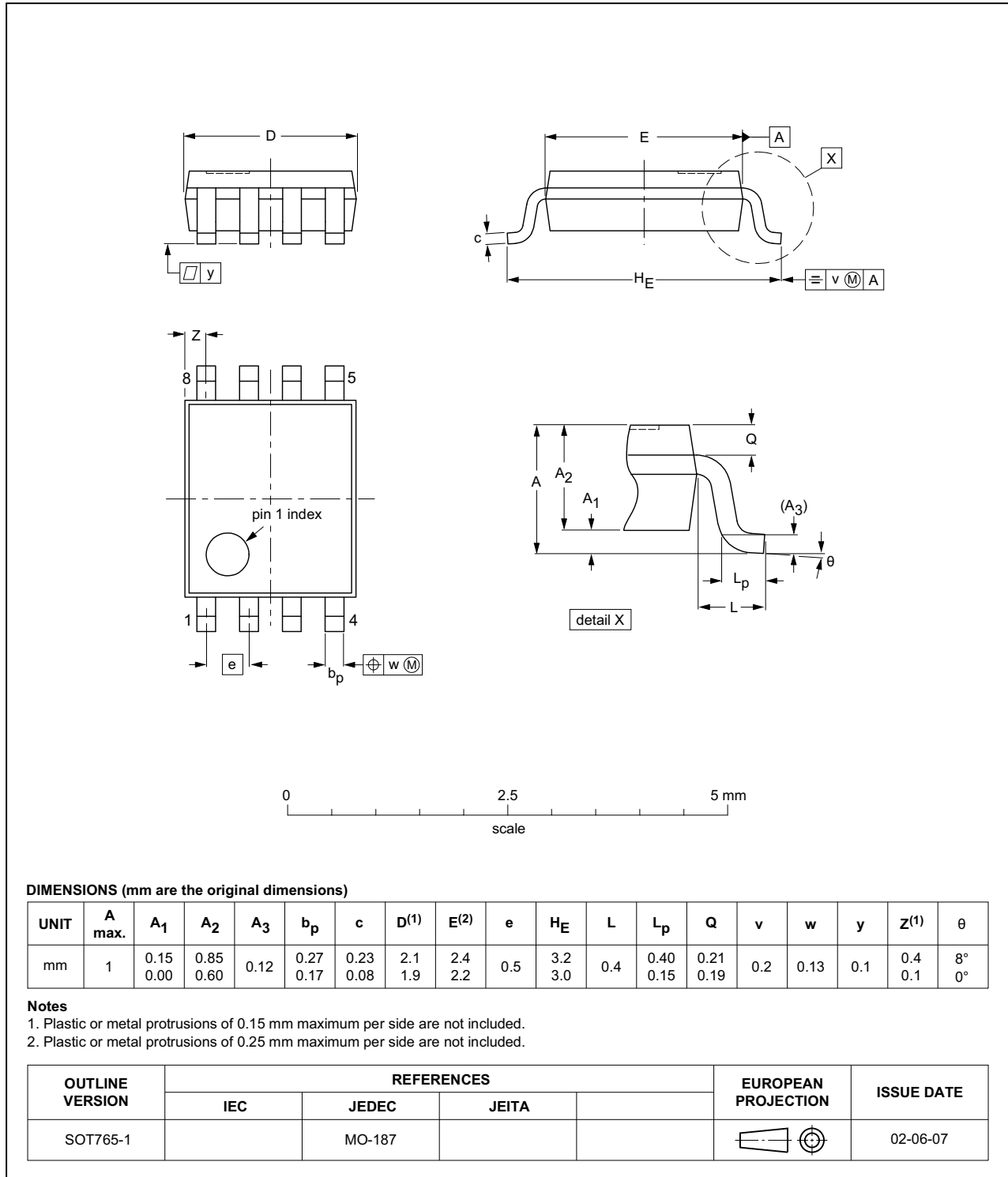


Fig 9. Package outline SOT765-1 (VSSOP8)

14. Abbreviations

Table 11. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MIL	Military
MM	Machine Model
TTL	Transistor-Transistor Logic

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT2G241_Q100 v.1	20131112	Product data sheet	-	-

16. Legal information

16.1 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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