# 74HCS126

# **Quad buffer/line driver with Schmitt-trigger inputs and 3-state** outputs

Rev. 1 — 23 July 2025

**Product data sheet** 

### 1. General description

The 74HCS126 is a quad buffer/line driver with 3-state outputs controlled by the output enable inputs (nOE). A LOW on nOE causes the outputs to assume a high-impedance OFF-state. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of  $V_{\rm CG}$ .

All inputs are Schmitt-trigger inputs, capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

### 2. Features and benefits

- Wide supply voltage range from 2.0 V to 6.0 V
- Schmitt-trigger inputs
- Low power consumption
  - Typical supply current (I<sub>CC</sub>) of 100 nA
  - Typical input leakage current (I<sub>I</sub>) of ±10 nA
- ±7.8 mA output drive at 6 V
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards:
  - JESD7A (2.0 V to 6.0 V)
- · ESD protection:
  - HBM ANSI/ESDA/JEDEC JS-001 class 3A exceeds 4000 V
  - CDM ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1500 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

# 3. Ordering information

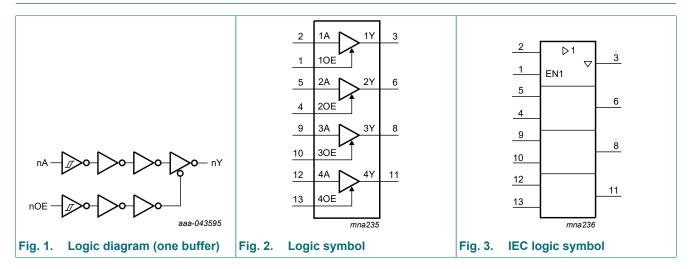
**Table 1. Ordering information** 

Type number	Package			
	Temperature range	Name	Description	Version
74HCS126D	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74HCS126PW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1
74HCS126BQ	-40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm	SOT762-1



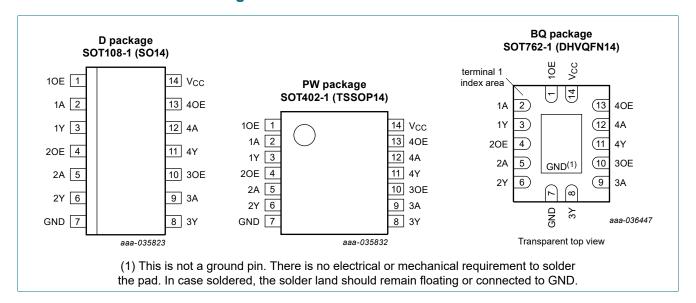
#### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

# 4. Functional diagram



# 5. Pinning information

### 5.1. Pinning



### 5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
10E, 20E, 30E, 40E	1, 4, 10, 13	data enable input (active HIGH)
1A, 2A, 3A, 4A	2, 5, 9, 12	data input
1Y, 2Y, 3Y, 4Y	3, 6, 8, 11	data output
GND	7	ground (0 V)
Vcc	14	supply voltage

#### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

# 6. Functional description

#### Table 3. Function table

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

	Input	Output
nOE	nA	nY
Н	L	L
Н	Н	Н
L	X	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	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	[1]	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$	[1]	-	±20	mA
Io	output current	$V_O = 0 V \text{ to } V_{CC}$		-	±35	mA
I <sub>CC</sub>	supply current			-	70	mA
I <sub>GND</sub>	ground current			-70	-	mA
Tj	junction temperature		[2]	-	+150	°C
T <sub>stg</sub>	storage temperature			-65	+150	°C
V <sub>ESD</sub>	electrostatic discharge	HBM ANSI/ESDA/JEDEC JS-001 class 3A exceeds 4000 V		-	±4000	V
		CDM ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1500 V		-	±1500	V
P <sub>tot</sub>	total power dissipation		[3]	-	500	mW

<sup>[1]</sup> The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed.

# 8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$V_{CC}$	supply voltage		2.0	5.0	6.0	V
VI	input voltage		0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	V
$T_{amb}$	ambient temperature		-40	+25	+125	°C

<sup>[2]</sup> Guaranteed by design.

<sup>[3]</sup> For SOT108-1 (SO14) package: P<sub>tot</sub> derates linearly with 10.1 mW/K above 100 °C. For SOT402-1 (TSSOP14) package: P<sub>tot</sub> derates linearly with 7.3 mW/K above 81 °C.

For SOT762-1 (DHVQFN14) package: Ptot derates linearly with 9.6 mW/K above 98 °C.

### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

# 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 to	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
$V_{T+}$	positive-going	see Fig. 4 and Fig. 5								
	threshold voltage	V <sub>CC</sub> = 2.0 V	0.7	-	1.5	0.7	1.5	0.7	1.5	V
	voitage	V <sub>CC</sub> = 4.5 V	1.7	-	3.15	1.7	3.15	1.7	3.15	V
		V <sub>CC</sub> = 6 V	2.1	-	4.2	2.1	4.2	2.1	4.2	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.4V <sub>CC</sub>	-	0.7V <sub>CC</sub>	0.4V <sub>CC</sub>	0.7V <sub>CC</sub>	0.4V <sub>CC</sub>	0.7V <sub>CC</sub>	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.38V <sub>CC</sub>	-	0.7V <sub>CC</sub>	0.38V <sub>CC</sub>	0.7V <sub>CC</sub>	0.38V <sub>CC</sub>	0.7V <sub>CC</sub>	V
V <sub>T-</sub>	negative-	see <u>Fig. 4</u> and <u>Fig. 5</u>								
	going threshold	V <sub>CC</sub> = 2.0 V	0.3	-	1.0	0.3	1.0	0.3	1.0	V
	voltage	V <sub>CC</sub> = 4.5 V	0.9	-	2.2	0.9	2.2	0.9	2.2	V
	-	V <sub>CC</sub> = 6 V	1.2	-	3.0	1.2	3.0	1.2	3.0	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.2V <sub>CC</sub>	-	0.5V <sub>CC</sub>	0.2V <sub>CC</sub>	0.5V <sub>CC</sub>	0.2V <sub>CC</sub>	0.5V <sub>CC</sub>	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.2V <sub>CC</sub>	-	0.49V <sub>CC</sub>	0.2V <sub>CC</sub>	0.49V <sub>CC</sub>	0.2V <sub>CC</sub>	0.49V <sub>CC</sub>	V
V <sub>H</sub>	hysteresis	see Fig. 4 and Fig. 5								
	voltage[1]	V <sub>CC</sub> = 2.0 V	0.2	0.52	1.0	0.2	1.0	0.2	1.0	V
		V <sub>CC</sub> = 4.5 V	0.4	0.85	1.4	0.4	1.4	0.4	1.4	V
		V <sub>CC</sub> = 6 V	0.6	1.1	1.6	0.6	1.6	0.6	1.6	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.1V <sub>CC</sub>	0.72	0.38V <sub>CC</sub>	0.1V <sub>CC</sub>	0.38V <sub>CC</sub>	0.1V <sub>CC</sub>	0.38V <sub>CC</sub>	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.09V <sub>CC</sub>	0.94	0.29V <sub>CC</sub>	0.09V <sub>CC</sub>	0.29V <sub>CC</sub>	0.09V <sub>CC</sub>	0.29V <sub>CC</sub>	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>OH</sub> = -20 μA; V <sub>CC</sub> = 2.0 V to 6 V	V <sub>CC</sub> -0.1	V <sub>CC</sub> -0.002	-	V <sub>CC</sub> -0.1	-	V <sub>CC</sub> -0.1	-	V
		I <sub>OH</sub> = -4 mA; V <sub>CC</sub> = 3.0 V	2.7	2.85	-	2.7	-	2.7	-	V
		I <sub>OH</sub> = -6 mA; V <sub>CC</sub> = 4.5 V	4.0	4.3	-	4.0	-	4.0	-	V
		I <sub>OH</sub> = -7.8 mA; V <sub>CC</sub> = 6.0 V	5.48	5.75	-	5.4	-	5.4	-	V
$V_{OL}$	LOW-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	I <sub>OL</sub> = 20 μA; V <sub>CC</sub> = 2.0 V to 6 V	-	0.002	0.1	-	0.1	-	0.1	V
		I <sub>OL</sub> = 4 mA; V <sub>CC</sub> = 3.0 V	-	0.14	0.25	-	0.25	-	0.25	V
		I <sub>OL</sub> = 6 mA; V <sub>CC</sub> = 4.5 V	-	0.18	0.26	-	0.30	-	0.30	V
		I <sub>OL</sub> = 7.8 mA; V <sub>CC</sub> = 6.0 V	-	0.22	0.26	-	0.33	-	0.33	V
l <sub>l</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	±0.01	±0.1	-	±0.25	-	±1.0	μA
l <sub>OZ</sub>	OFF-state output current	$V_{CC} = 6.0 \text{ V};$ $V_{O} = V_{CC} \text{ or GND}$	-	±0.05	±0.25	-	±1.0	-	±2.0	μA

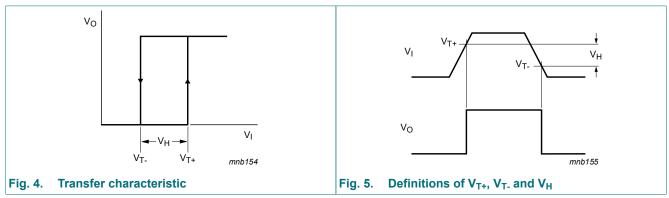
#### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

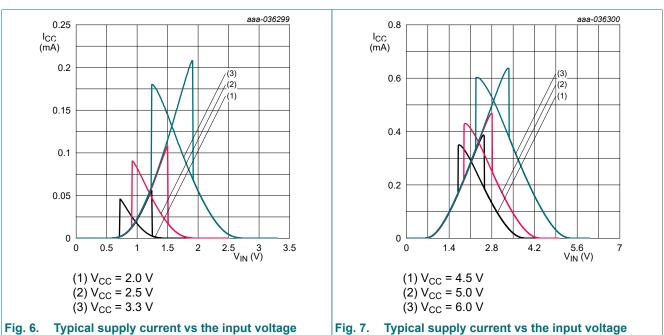
Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
I <sub>CC</sub>		V <sub>I</sub> = V <sub>CC</sub> or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 6.0 V	-	0.1	-	-	0.5	-	2.0	μΑ

#### [1] Guaranteed by design.

# 9.1. Transfer characteristic waveforms and graphs

### 9.1.1. For inputs



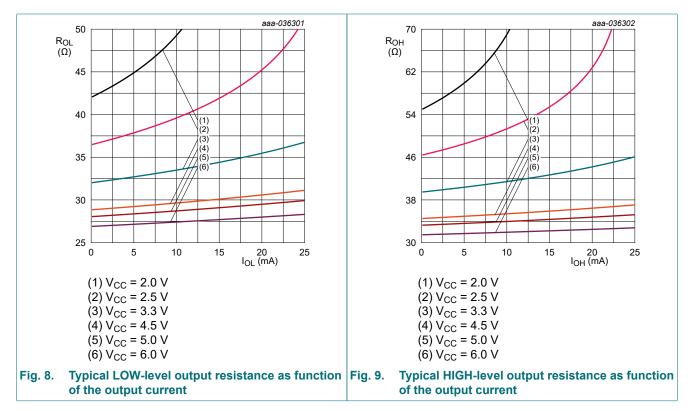


**Product data sheet** 

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#### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

### 9.1.2. For outputs



# 10. Dynamic characteristics

#### **Table 7. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit see Section 10.1.

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 <sub>pd</sub>	propagation	nA to nY; see Fig. 10 [2]								
	delay	V <sub>CC</sub> = 2 V	-	15	39	-	46	-	50	ns
		V <sub>CC</sub> = 4.5 V	-	8	24	-	28	-	30	ns
		V <sub>CC</sub> = 6 V	-	7	21	-	24	-	26	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	9	33	-	39	-	42	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	7	24	-	28	-	30	ns
t <sub>en</sub>	enable time	nOE to nY; see Fig. 11 [3]								
		V <sub>CC</sub> = 2 V	-	18	28	-	33	-	36	ns
		V <sub>CC</sub> = 4.5 V	-	9	11	-	13	-	14	ns
		V <sub>CC</sub> = 6 V	-	7	10	-	11	-	12	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	10	16	-	18	-	20	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	7	11	-	13	-	14	ns

#### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to +125 °C		Unit
				Typ[1]	Max	Min	Max	Min	Max	1
t <sub>dis</sub>	disable time	nOE to nY; see Fig. 11 [4]								
		V <sub>CC</sub> = 2 V	-	15	27	-	27	-	27	ns
		V <sub>CC</sub> = 4.5 V	-	10	16	-	17	-	17	ns
		V <sub>CC</sub> = 6 V	-	9	13	-	14	-	14	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	10	19	-	19	-	20	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	9	16	-	17	-	17	ns
t <sub>t</sub>	transition	nY; see <u>Fig. 10</u> [5]								
	time	V <sub>CC</sub> = 2 V	-	9	13	-	15	-	16	ns
		V <sub>CC</sub> = 4.5 V	-	5	7	-	8	-	8	ns
		V <sub>CC</sub> = 6 V	-	4	6	-	7	-	7	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	5	8	-	9	-	10	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	4	7	-	8	-	8	ns
C <sub>I</sub>	input capacitance		-	1.5	-	-	5	-	5	pF
C <sub>PD</sub>	power dissipation capacitance	$f_i$ = 1 MHz; $C_L$ = 0 pF; [6] $V_I$ = GND to $V_{CC}$ ; $V_{CC}$ = 2.0 V to 6.0 V	-	10	-	-	-	-	-	pF

- [1] Typical values are measured at nominal supply voltage.
- [2]  $t_{\text{pd}}$  is the same as  $t_{\text{PHL}}$  and  $t_{\text{PLH}}$ .
- [3] t<sub>en</sub> is the same as t<sub>PZL</sub> and t<sub>PZH</sub>.
- $t_{\text{dis}}$  is the same as  $t_{\text{PLZ}}$  and  $t_{\text{PHZ}}$ . [4]
- [5]
- $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ .  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

f<sub>i</sub> = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

 $\Sigma(C_L \times V_{CC}^2 \times f_o) = \text{sum of outputs};$ 

C<sub>L</sub> = output load capacitance in pF;

V<sub>CC</sub> = supply voltage in V.

74HCS126

#### 10.1. Waveforms and test circuit

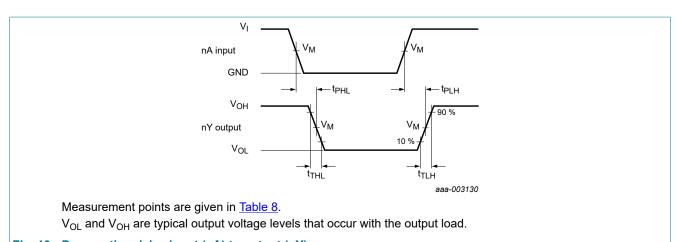


Fig. 10. Propagation delay input (nA) to output (nY)

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### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

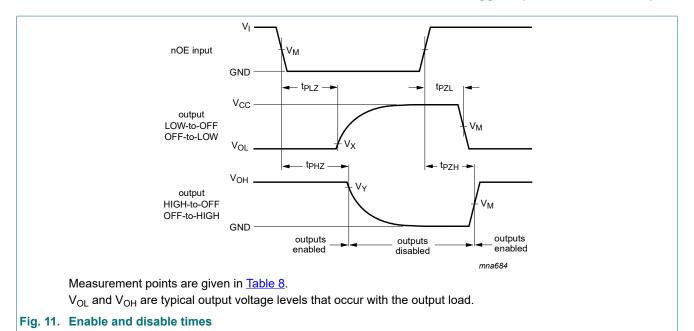
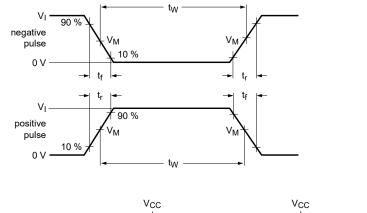
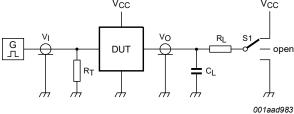


Table 8. Measurement points

Input	Output		
$V_{M}$	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>
0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	10 %	90 %

### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs





Test data is given in Table 9.

Definitions for test circuit:

 $\ensuremath{C_L}$  = load capacitance including jig and probe capacitance.

R<sub>L</sub> = load resistance.

 $R_T$  = termination resistance should be equal to the output impedance  $Z_o$  of the pulse generator.

S1 = test selection switch.

Fig. 12. Test circuit for measuring switching times

Table 9. Test data

Input		Load		S1 position			
V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	C <sub>L</sub> R <sub>L</sub> t		t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>	
V <sub>CC</sub>	2.5 ns	50 pF	1 kΩ	open	GND	V <sub>CC</sub>	

#### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

# 11. Package outline

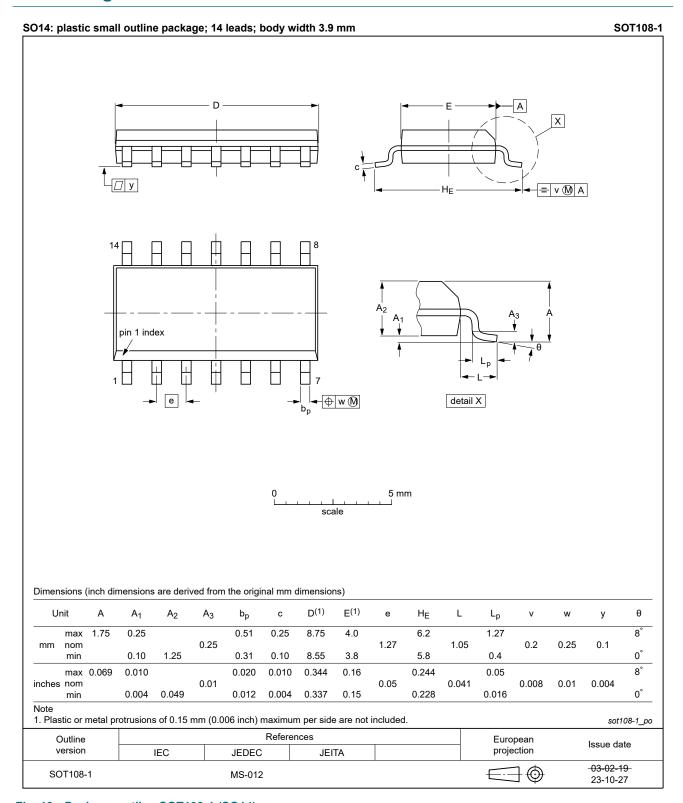


Fig. 13. Package outline SOT108-1 (SO14)

#### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

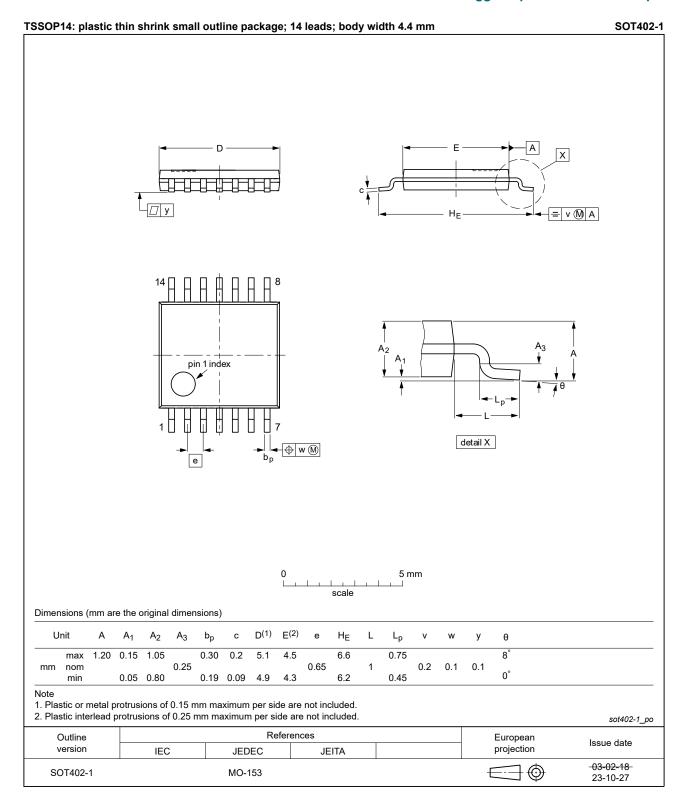


Fig. 14. Package outline SOT402-1 (TSSOP14)

#### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

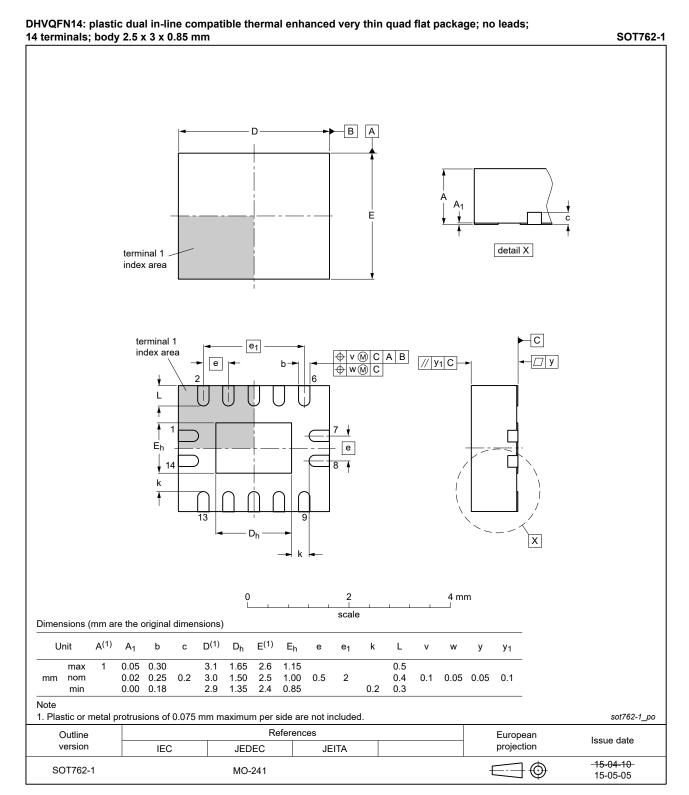


Fig. 15. Package outline SOT762-1 (DHVQFN14)

### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

# 12. Abbreviations

#### **Table 10. Abbreviations**

Acronym	escription			
CDM	M Charge Device Model			
DUT	Device Under Test			
ESD	ElectroStatic Discharge			
HBM	Human Body Model			

# 13. Revision history

### **Table 11. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HCS126 v.1	20250723	Product data sheet	-	-

#### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

### 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.

- Please consult the most recently issued document before initiating or completing a design.
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### Quad buffer/line driver with Schmitt-trigger inputs and 3-state outputs

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