# 74LVC157A

# **Quad 2-input multiplexer**Rev. 10 — 20 September 2021

10 — 20 September 2021 Product data sheet

### 1. General description

The 74LVC157A is a quad 2-input multiplexer. The device features select (S) and enable  $\overline{\mathbb{E}}$  inputs. A HIGH on S selects data source 1, a LOW data source 0. A HIGH on  $\overline{\mathbb{E}}$  forces all the outputs (1Y to 4Y) LOW. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V applications.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

#### 2. Features and benefits

- Overvoltage tolerant inputs to 5.5 V
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- · Direct interface with TTL levels
- Complies with JEDEC standard:
- JESD8-7A (1.65 V to 1.95 V)
  - JESD8-5A (2.3 V to 2.7 V)
  - JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-B exceeds 200 V
  - CDM JESD22-C101E exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

### 3. Ordering information

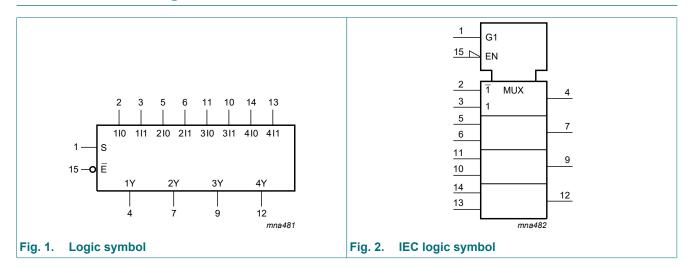
**Table 1. Ordering information** 

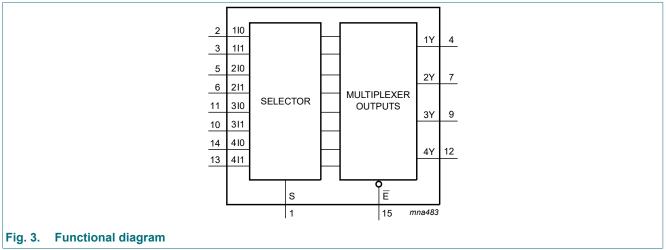
Type number	Package										
	Temperature range	Name	Description	Version							
74LVC157AD	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1							
74LVC157APW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1							
74LVC157ABQ	-40 °C to +125 °C	DHVQFN16	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 × 3.5 × 0.85 mm	SOT763-1							



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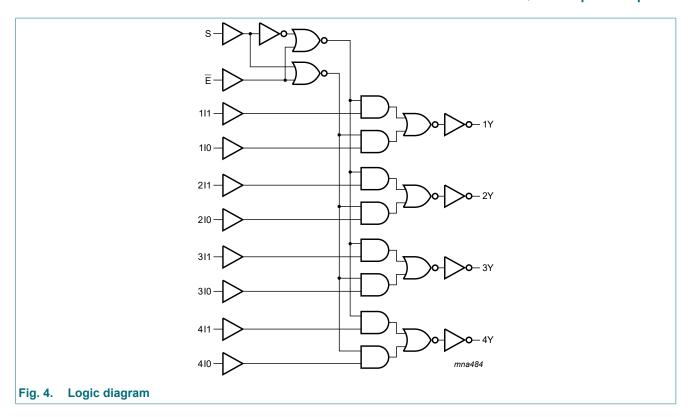
### 4. Functional diagram





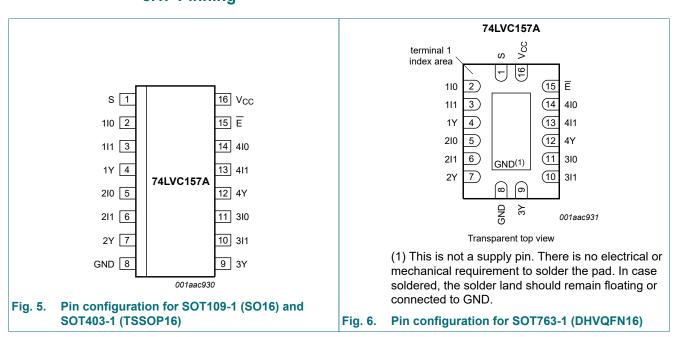
**Product data sheet** 

#### **Quad 2-input multiplexer**



### 5. Pinning information

#### 5.1. Pinning



**Quad 2-input multiplexer** 

### 5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
S	1	common data select input
110	2	data input from source 0
111	3	data input from source 1
1Y	4	multiplexer output
210	5	data input from source 0
211	6	data input from source 1
2Y	7	multiplexer output
GND	8	ground (0 V)
3Y	9	multiplexer output
311	10	data input from source 1
310	11	data input from source 0
4Y	12	multiplexer output
411	13	data input from source 1
410	14	data input from source 0
Ē	15	enable input (active LOW)
V <sub>CC</sub>	16	supply voltage

### 6. Functional description

#### Table 3. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = don't \ care$ 

Input	nput							
Ē	S	nI0	nl1	nY				
Н	X	Х	Х	L				
L	L	L	Х	L				
L	L	Н	Х	Н				
L	Н	Х	L	L				
L	Н	X	Н	Н				

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### 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	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0		-50	-	mA
V <sub>I</sub>	input voltage		[1]	-0.5	+6.5	V
lok	output clamping current	$V_O > V_{CC}$ or $V_O < 0$		-	±50	mA
Vo	output voltage		[2]	-0.5	V <sub>CC</sub> + 0.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$		-	±50	mA
I <sub>cc</sub>	supply current			-	100	mA
I <sub>GND</sub>	ground current			-100	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C	[3]	-	500	mW

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

### 8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall	V <sub>CC</sub> = 1.65 V to 2.7 V	0	-	20	ns/V
	rate	V <sub>CC</sub> = 2.7 V to 3.6 V	0	-	10	ns/V

<sup>[2]</sup> The output voltage ratings may be exceeded if the output current ratings are observed.

<sup>[3]</sup> For SOT109-1 (SO16) package: P<sub>tot</sub> derates linearly with 12.4 mW/K above 110 °C. For SOT403-1 (TSSOP16) package: P<sub>tot</sub> derates linearly with 8.5 mW/K above 91 °C. For SOT763-1 (DHVQFN16) package: P<sub>tot</sub> derates linearly with 11.2 mW/K above 106 °C.

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### 9. Static characteristics

**Table 6. Static characteristics** 

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

Symbol	Parameter	Conditions	-40	°C to +85	5 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 1.2 V	1.08	-	-	1.08	-	V
	input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65 x V <sub>CC</sub>	-	-	0.65 x V <sub>CC</sub>	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 1.2 V	-	-	0.12	-	0.12	V
	input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35 x V <sub>CC</sub>	-	0.35 x V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	output voltage	I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V	V <sub>CC</sub> - 0.2	-	-	V <sub>CC</sub> - 0.3	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	-	-	1.05	-	V
		$I_O = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	1.65	-	V
		$I_O = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	V
		$I_O = -18 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.4	-	-	2.25	-	V
		$I_O = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	output voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.65	V
		$I_O = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	0.8	V
		$I_{O}$ = 12 mA; $V_{CC}$ = 2.7 V	-	-	0.4	-	0.6	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	-	0.8	V
I <sub>I</sub>	input leakage current	$V_{CC} = 3.6 \text{ V}; V_I = 5.5 \text{ V or GND}$	-	±0.1	±5	-	±20	μΑ
I <sub>CC</sub>	supply current	$V_{CC} = 3.6 \text{ V}; V_{I} = V_{CC} \text{ or GND}; I_{O} = 0 \text{ A}$	-	0.1	10	-	40	μΑ
Δl <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 0.6 \text{ V};$ $V_{CC} = 2.7 \text{ V to } 3.6 \text{ V};$ $I_O = 0 \text{ A}$	-	5	500	-	5000	μA
Cı	input capacitance	$V_{CC}$ = 0 V to 3.6 V; $V_I$ = GND to $V_{CC}$	-	5.0	-	-	-	pF

<sup>[1]</sup> All typical values are measured at  $V_{CC}$  = 3.3 V (unless stated otherwise) and  $T_{amb}$  = 25 °C.

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### 10. Dynamic characteristics

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

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 9.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
				Min	Typ[1]	Max	Min	Max	
t <sub>pd</sub>	propagation delay	nl0, nl1 to nY; see Fig. 7	[2]						
		V <sub>CC</sub> = 1.2 V		-	16	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		1.0	4.8	10.2	1.0	11.8	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.5	2.8	5.8	1.5	6.7	ns
		V <sub>CC</sub> = 2.7 V		1.0	2.9	5.9	1.0	7.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.0	2.5	5.2	1.0	6.5	ns
		Ē to nY; see Fig. 8	[2]						
		V <sub>CC</sub> = 1.2 V		-	17	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		0.5	4.8	12.8	0.5	14.7	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.5	2.8	7.2	1.5	8.3	ns
		V <sub>CC</sub> = 2.7 V		1.0	2.9	7.8	1.0	10.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.0	2.6	6.5	1.0	8.5	ns
		S to nY; see Fig. 7	[2]						
		V <sub>CC</sub> = 1.2 V		-	16	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		1.0	5.1	12.4	1.0	14.3	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.5	3.0	7.0	1.5	8.1	ns
		V <sub>CC</sub> = 2.7 V		1.0	3.1	7.3	1.0	9.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.0	2.7	6.3	1.0	8.0	ns
t <sub>sk(o)</sub>	output skew time	V <sub>CC</sub> = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns
C <sub>PD</sub>	power dissipation	per input; $V_I$ = GND to $V_{CC}$	[4]						
	capacitance	V <sub>CC</sub> = 1.65 V to 1.95 V		-	9.4	-	-	-	pF
		V <sub>CC</sub> = 2.3 V to 2.7 V		-	12.8	-	-	-	pF
		V <sub>CC</sub> = 3.0 V to 3.6 V		-	15.9	-	-	-	pF

Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.2 V, 1.8 V, 2.5 V, 2.7 V, and 3.3 V respectively.

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

 $f_i$  = input frequency in MHz;  $f_o$  = output frequency in MHz

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

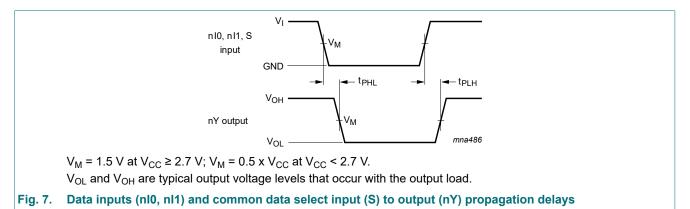
V<sub>CC</sub> = supply voltage in V

N = number of inputs switching  $\sum (C_L \times V_{CC}^2 \times f_o) = \text{sum of outputs}$ 

 $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ . Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).

**Quad 2-input multiplexer** 

#### 10.1. Waveforms and test circuit



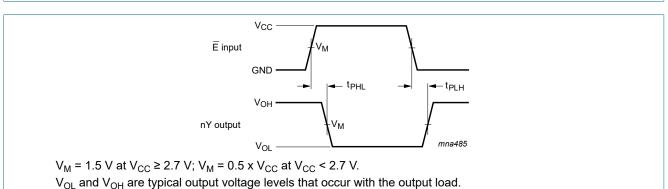
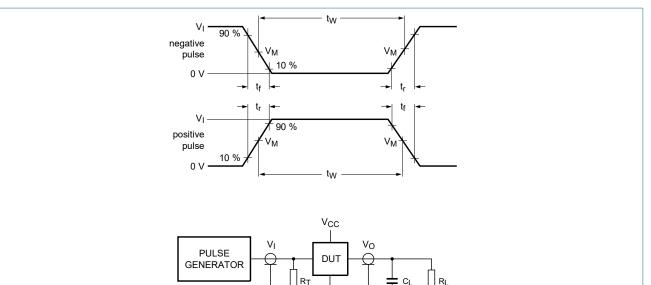


Fig. 8. Enable input  $(\overline{E})$  to output (nY) propagation delays

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Test data is given in Table 8. Definitions for test circuit:

 $R_L$  = Load resistance.

 $C_L$  = Load capacitance including jig and probe capacitance.

 $R_{T}$  = Termination resistance should be equal to output impedance  $Z_{\text{o}}$  of the pulse generator.

Fig. 9. Test circuit for measuring switching times

Table 8. Test data

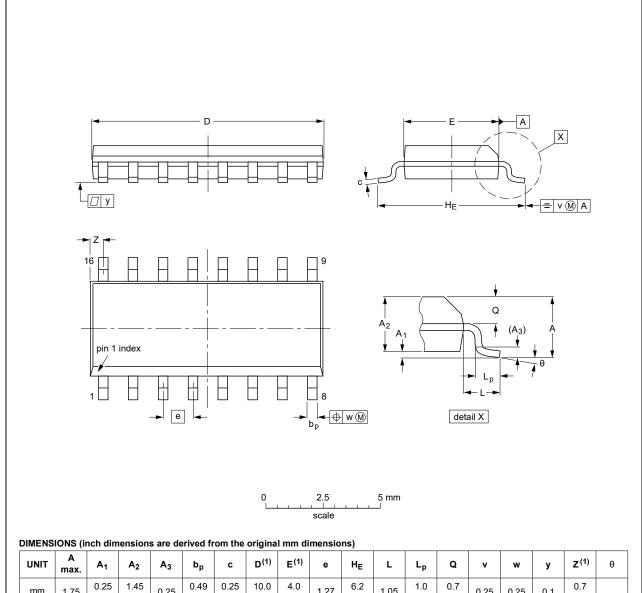
Supply voltage	Input		Load	Load			
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub>			
1.2 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ			
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ			
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2 ns	30 pF	500 Ω			
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω			
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω			

#### **Quad 2-input multiplexer**

### 11. Package outline

#### SO16: plastic small outline package; 16 leads; body width 3.9 mm

SOT109-1



UNIT	A max.	<b>A</b> <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(1)</sup>	е	HE	L	Lp	Q	v	w	у	Z <sup>(1)</sup>	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	10.0 9.8	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8°
inches	0.069	0.010 0.004	0.057 0.049	0.01		0.0100 0.0075	0.39 0.38	0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016	0.028 0.020	0.01	0.01	0.004	0.028 0.012	0°

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

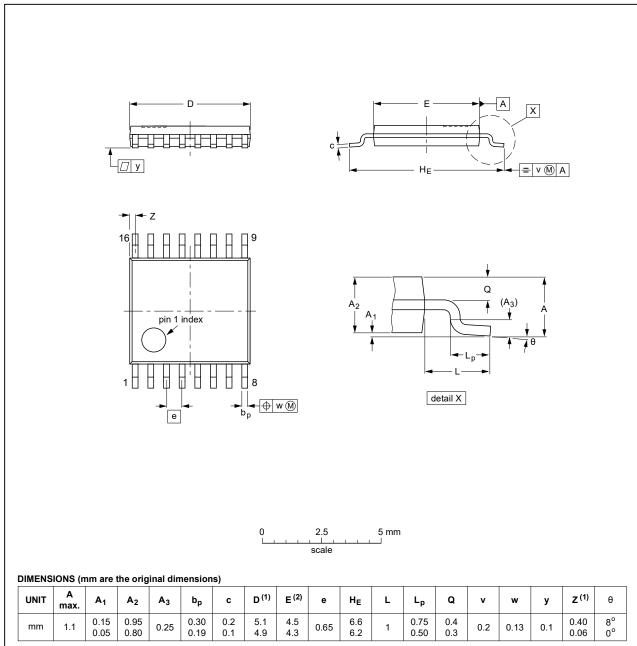
OUTLINE		REFER	RENCES	EUROPEAN ISSUE DATE		
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE	
SOT109-1	076E07	MS-012			<del>99-12-27</del> 03-02-19	

Fig. 10. Package outline SOT109-1 (SO16)

#### **Quad 2-input multiplexer**

TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm

SOT403-1



#### Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	ENCES	EUROPEAN ISSUE DATE		
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE	
SOT403-1		MO-153			<del>99-12-27</del> 03-02-18	

Fig. 11. Package outline SOT403-1 (TSSOP16)

#### **Quad 2-input multiplexer**

DHVQFN16: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 x 3.5 x 0.85 mm SOT763-1

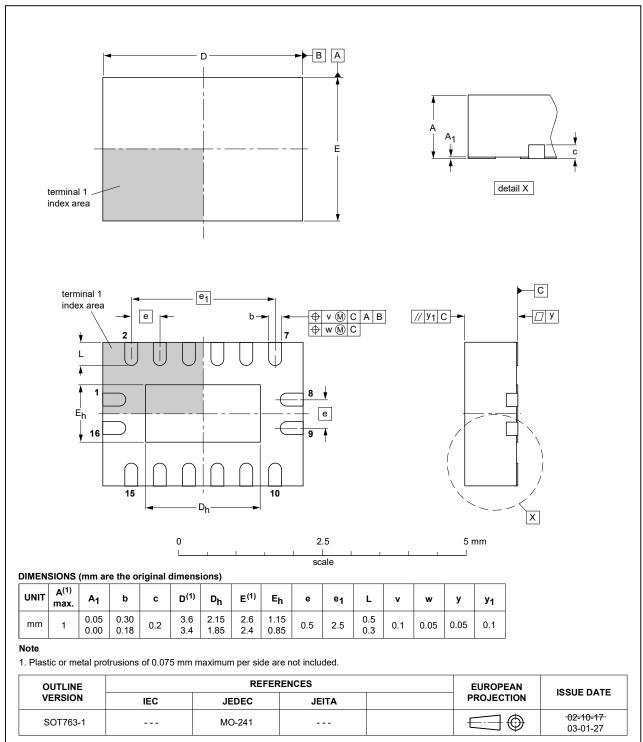


Fig. 12. Package outline SOT763-1 (DHVQFN16)

**Quad 2-input multiplexer** 

### 12. Abbreviations

#### **Table 9. Abbreviations**

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

### 13. Revision history

#### Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC157A v.10	20210920	Product data sheet	-	74LVC157A v.9	
Modifications:	<ul> <li>Type number 74LVC157ADB (SOT338-1/SSOP16) removed.</li> <li>Section 1 updated.</li> </ul>				
74LVC157A v.9	20200319	Product data sheet	-	74LVC157A v.8	
Modifications:	<u>Table 4</u> : Derating values for P <sub>tot</sub> total power dissipation updated.				
74LVC157A v.8	20171011	Product data sheet	-	74LVC157A v.7	
Modifications:	<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> </ul>				
74LVC157A v.7	20111125	Product data sheet	-	74LVC157A v.6	
Modifications:	<u>Table 7</u> : maximum values for lower voltage ranges changed (errata).				
74LVC157A v.6	20111027	Product data sheet	-	74LVC157A v.5	
Modifications:	<ul> <li>The format of this document has been redesigned to comply with the new identity guidelines o NXP Semiconductors.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Table 4, Table 5, Table 6, Table 7, and Table 8: values added for lower voltage ranges.</li> </ul>				
74LVC157A v.5	031202	Product specification	-	74LVC157A v.4	
74LVC157A v.4	030617	Product specification	-	74LVC157A v.3	
74LVC157A v.3	020315	Product specification	-	74LVC157A v.2	
74LVC157A v.2	980729	Product specification	-	-	

#### Quad 2-input multiplexer

### 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.
- [2] The term 'short data sheet' is explained in section "Definitions".
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#### **Quad 2-input multiplexer**

### **Contents**

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