Quad 2-input multiplexer with 5 V tolerant inputs/outputs; 3-state

Rev. 6 — 28 November 2011

Product data sheet

1. General description

The 74LVC257A is a quad 2-input multiplexer with 3-state outputs, which select 4 bits of data from two sources and are controlled by a common data select input (pin S). The data inputs from source 0 (pins 1I0 to 4I0) are selected when pin S is LOW and the data inputs from source 1 (pins 1I1 to 4I1) are selected when pin S is HIGH. Data appears at the outputs (pins 1Y to 4Y) in true (non-inverting) form from the selected inputs. The device is the logic implementation of a 4-pole, 2-position switch, where the position of the switch is determined by the logic levels applied to pin S. The outputs are forced to a high-impedance OFF-state when pin OE is HIGH.

Inputs can be driven from either 3.3 V or 5.0 V devices. When disabled, up to 5.5 V can be applied to the outputs. These features allow the use of these devices as translators in mixed 3.3 V and 5 V applications.

2. Features and benefits

- 5 V tolerant inputs/outputs, for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low-power consumption
- Direct interface with TTL levels
- Output drive capability 50 Ω transmission lines at 85 °C
- 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-A115B exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

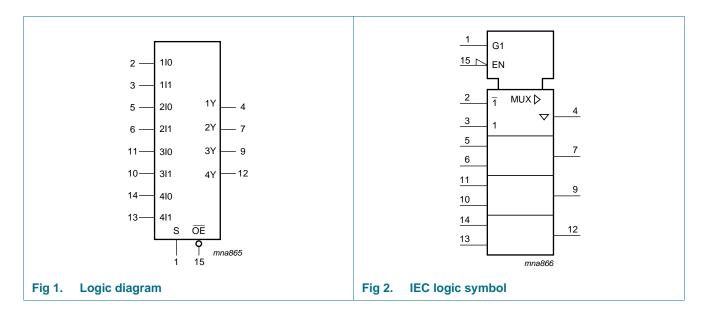


Quad 2-input multiplexer with 5V tolerant; 3-state

3. Ordering information

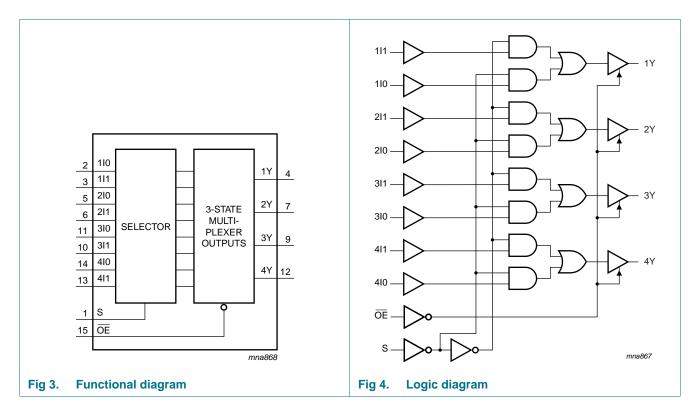
Type number	Package								
	Temperature range	Name	Description	Version					
74LVC257AD	–40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1					
74LVC257ADB	–40 °C to +125 °C	SSOP16	plastic shrink small outline package; 16 leads; body width 5.3 mm	SOT338-					
74LVC257APW	–40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-7					
74LVC257ABQ	–40 °C to +125 °C	DHVQFN16	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body $2.5 \times 3.5 \times 0.85$ mm	SOT763-					

4. Functional diagram

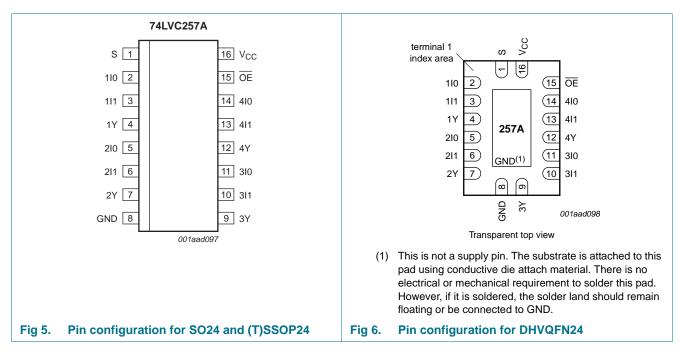


74LVC257A

Quad 2-input multiplexer with 5V tolerant; 3-state



5. Pinning information



5.1 Pinning

Quad 2-input multiplexer with 5V tolerant; 3-state

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	3-state multiplexer output
210	5	data input from source 0
211	6	data input from source 1
2Y	7	3-state multiplexer output
GND	8	ground (0 V)
3Y	9	3-state multiplexer output
311	10	data input from source 1
310	11	data input from source 0
4Y	12	3-state multiplexer output
411	13	data input from source 1
410	14	data input from source 0
OE	15	3-state output enable input (active LOW)
V _{CC}	16	supply voltage

6. Functional description

Table 3. Function table^[1]

Input OE	Output			
OE	S	nl0	nl1	nY
Н	Х	Х	Х	Z
L	Н	Х	L	L
L	Н	Х	Н	Н
L	L	L	Х	L
L	L	Н	Х	Н

[1] H = HIGH voltage level

L = LOW voltage level

X = don't care

Z = high-impedance OFF-state

Quad 2-input multiplexer with 5V tolerant; 3-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	+6.5	V
I _{IK}	input clamping current	V ₁ < 0	-50	-	mA
VI	input voltage		<u>[1]</u> –0.5	+6.5	V
Ι _{ΟΚ}	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0	-	±50	mA
Vo	output voltage	HIGH or LOW state	[2] -0.5	V _{CC} + 0.5	V
		output 3-state	[2] -0.5	+6.5	V
lo	output current	$V_{O} = 0 V$ to V_{CC}	-	±50	mA
I _{CC}	supply current		-	100	mA
I _{GND}	ground current		-100	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 \ ^{\circ}C$ to +125 $^{\circ}C$	<u>[3]</u>	500	mW

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

[2] The output voltage ratings may be exceeded if the 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		1.65	-	3.6	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	HIGH or LOW state	0	-	V _{CC}	V
		3-state	0	-	5.5	V
T _{amb}	ambient temperature	in free air	-40	-	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	V_{CC} = 1.65 V to 2.7 V	0	-	20	ns/V
		V_{CC} = 2.7 V to 3.6 V	0	-	10	ns/V

Quad 2-input multiplexer with 5V tolerant; 3-state

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	-40	–40 °C to +85 °C			–40 °C to +125 °C		
			Min	Typ[1]	Max	Min	Max		
V _{IH}	HIGH-level	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V	
	input voltage	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{\text{CC}}$	-	-	$0.65 \times V_{\text{CC}}$	-	V	
		V_{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V	
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2.0	-	-	2.0	-	V	
VIL	LOW-level	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V	
	input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V	
		V_{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V	
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	0.8	-	0.8	V	
/ _{ОН}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$							
	output voltage	$I_{O} = -100 \ \mu A;$ $V_{CC} = 1.65 \ V \text{ to } 3.6 \ V$	$V_{CC}-0.2$	-	-	$V_{CC}-0.3$	-	V	
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	1.05	-	V	
		$I_{O} = -8$ mA; $V_{CC} = 2.3$ 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	
		$I_{O} = -24$ mA; $V_{CC} = 3.0$ V	2.2	-	-	2.0	-	V	
V _{OL} LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I _O = 100 μA; V _{CC} = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V	
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.65	V	
		I_{O} = 8 mA; V_{CC} = 2.3 V	-	-	0.6	-	0.8	V	
		$I_0 = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	-	0.6	V	
		$I_{O} = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.8	V	
I	input leakage current	V_{CC} = 3.6 V; V_{I} = 5.5 V or GND	-	±0.1	±5	-	±20	μA	
oz	OFF-state output current	$\label{eq:VI} \begin{array}{l} V_{I} = V_{IH} \text{ or } V_{IL}; \ V_{CC} = 3.6 \ V; \\ V_{O} = 5.5 \ V \text{ or } \ GND; \end{array}$	-	±0.1	±5	-	±20	μΑ	
OFF	power-off leakage current	V_{CC} = 0 V; V _I or V _O = 5.5 V	-	±0.1	±10	-	±20	μA	
СС	supply current	$\label{eq:VCC} \begin{array}{l} V_{CC} = 3.6 \ \text{V}; \ \text{V}_{\text{I}} = \text{V}_{CC} \ \text{or GND}; \\ I_{O} = 0 \ \text{A} \end{array}$	-	0.1	10	-	40	μΑ	
∆l _{CC}	additional supply current	per input pin; $V_{CC} = 2.7 V \text{ to } 3.6 V;$ $V_{I} = V_{CC} - 0.6 V; I_{O} = 0 A$	-	5	500	-	5000	μA	
Cı	input capacitance	$V_{CC} = 0 V$ to 3.6 V; V _I = GND to V _{CC}	-	5.0	-	-	-	pF	

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

6 of 18

Quad 2-input multiplexer with 5V tolerant; 3-state

10. Dynamic characteristics

Table 7. Dynamic characteristics

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

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	–40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation delay	nI0, nI1 to nY; see Figure 7	[2]						
		V _{CC} = 1.2 V		-	16	-	-	-	ns
		V_{CC} = 1.65 V to 1.95 V		1.5	5.2	10.6	1.5	12.3	ns
		V_{CC} = 2.3 V to 2.7 V		1.0	2.8	5.5	1.0	6.4	ns
		$V_{CC} = 2.7 V$		1.0	2.8	5.4	1.0	7.0	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	2.4	4.6	1.0	6.0	ns
		S to nY; see Figure 7	[2]						
		V _{CC} = 1.2 V		-	18	-	-	-	ns
		V_{CC} = 1.65 V to 1.95 V		1.0	6.0	14.8	1.0	17.1	ns
		V_{CC} = 2.3 V to 2.7 V		1.0	3.2	7.7	1.0	8.9	ns
		$V_{CC} = 2.7 V$		1.0	3.2	7.5	1.0	9.5	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	2.7	6.4	1.0	8.0	ns
t _{en}	enable time	OE to nY; see Figure 8	[2]						
		V _{CC} = 1.2 V		-	15	-	-	-	ns
		V_{CC} = 1.65 V to 1.95 V		1.5	5.8	12.7	1.5	14.7	ns
		V_{CC} = 2.3 V to 2.7 V		1.5	3.3	7.0	1.5	8.1	ns
		$V_{CC} = 2.7 V$		1.5	3.4	6.7	1.5	8.5	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	2.7	5.6	1.0	7.0	ns
t _{dis}	disable time	OE to nY; see Figure 8	[2]						
		V _{CC} = 1.2 V		-	8	-	-	-	ns
		V_{CC} = 1.65 V to 1.95 V		2.2	4.0	8.2	2.2	9.4	ns
		V_{CC} = 2.3 V to 2.7 V		0.5	2.2	4.4	0.5	5.1	ns
		$V_{CC} = 2.7 V$		1.5	3.0	4.7	1.5	6.0	ns
		V_{CC} = 3.0 V to 3.6 V		1.0	2.8	4.3	1.0	5.5	ns
sk(o)	output skew time	V_{CC} = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns

Quad 2-input multiplexer with 5V tolerant; 3-state

Symbol	Parameter	Conditions		–40 °C to +85 °C		–40 °C to	Unit		
				Min	Typ[1]	Max	Min	Max	
C _{PD} power dissipation		per input; $V_I = GND$ to V_{CC}	<u>[4]</u>						
capacitance	capacitance	V_{CC} = 1.65 V to 1.95 V		-	8.0	-	-	-	pF
		V_{CC} = 2.3 V to 2.7 V		-	11.4	-	-	-	pF
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		-	14.4	-	-	-	pF

Table 7. Dynamic characteristics ...continued

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

[1] 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.

 t_{dis} is the same as t_{PLZ} and t_{PHZ} .

- [3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.
- [4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

 $\mathsf{P}_{\mathsf{D}} = \mathsf{C}_{\mathsf{P}\mathsf{D}} \times \mathsf{V}_{\mathsf{C}\mathsf{C}}{}^2 \times \mathsf{f}_i \times \mathsf{N} + \Sigma(\mathsf{C}_{\mathsf{L}} \times \mathsf{V}_{\mathsf{C}\mathsf{C}}{}^2 \times \mathsf{f}_{\mathsf{o}}) \text{ where:}$

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

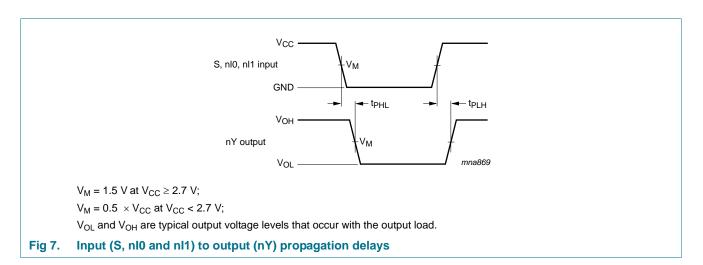
 C_L = output load capacitance in pF

V_{CC} = supply voltage in Volts

N = number of inputs switching

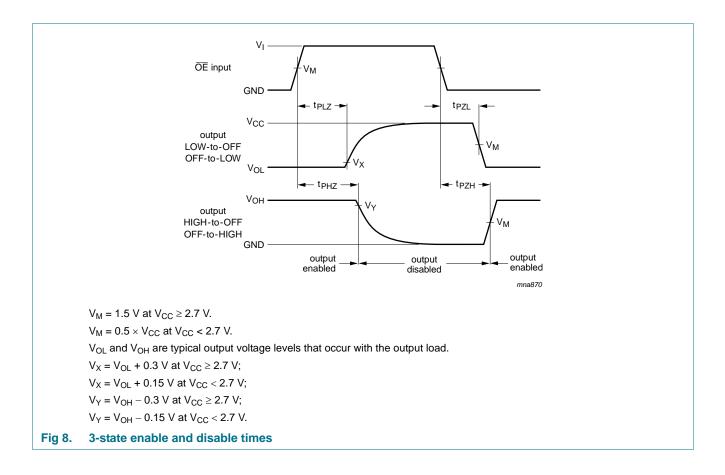
 $\Sigma(C_L \times V_{CC}{}^2 \times f_o)$ = sum of the outputs

11. Waveforms



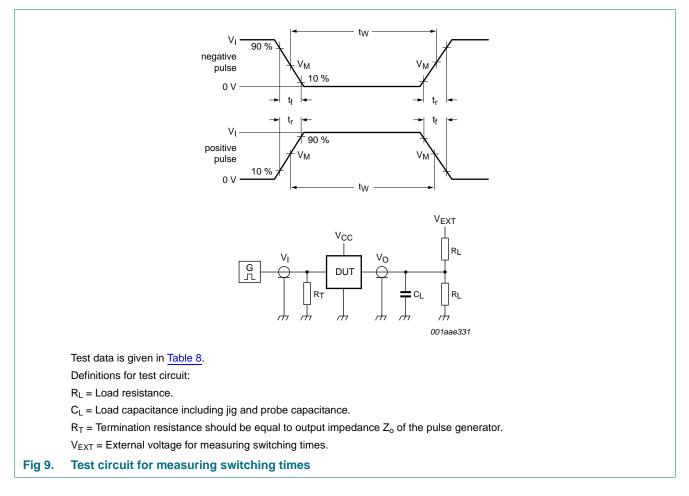
74LVC257A

Quad 2-input multiplexer with 5V tolerant; 3-state



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	Tabl	le 8.	Test	data
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Supply voltage	Input		Load	Load		V _{EXT}		
	VI	t _r , t _f	CL	RL	t _{PLH} , t _{PHL}	t _{PLZ} , t _{PZL}	t _{PHZ} , t _{PZH}	
1.2 V	V _{CC}	\leq 2 ns	30 pF	1 kΩ	open	$2 \times V_{CC}$	GND	
1.65 V to 1.95 V	V _{CC}	\leq 2 ns	30 pF	1 kΩ	open	$2\times V_{CC}$	GND	
2.3 V to 2.7 V	V _{CC}	\leq 2 ns	30 pF	500 Ω	open	$2\times V_{CC}$	GND	
2.7 V	2.7 V	\leq 2.5 ns	50 pF	500 Ω	open	$2\times V_{CC}$	GND	
3.0 V to 3.6 V	2.7 V	\leq 2.5 ns	50 pF	500 Ω	open	$2\times V_{CC}$	GND	

74LVC257A

Quad 2-input multiplexer with 5V tolerant; 3-state

12. Package outline

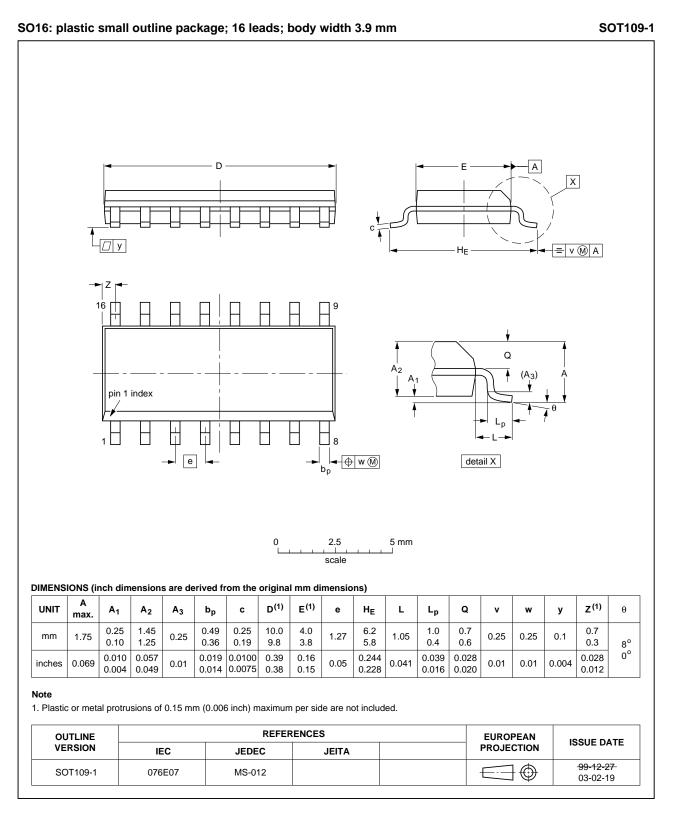


Fig 10. Package outline SOT109-1 (SO16)

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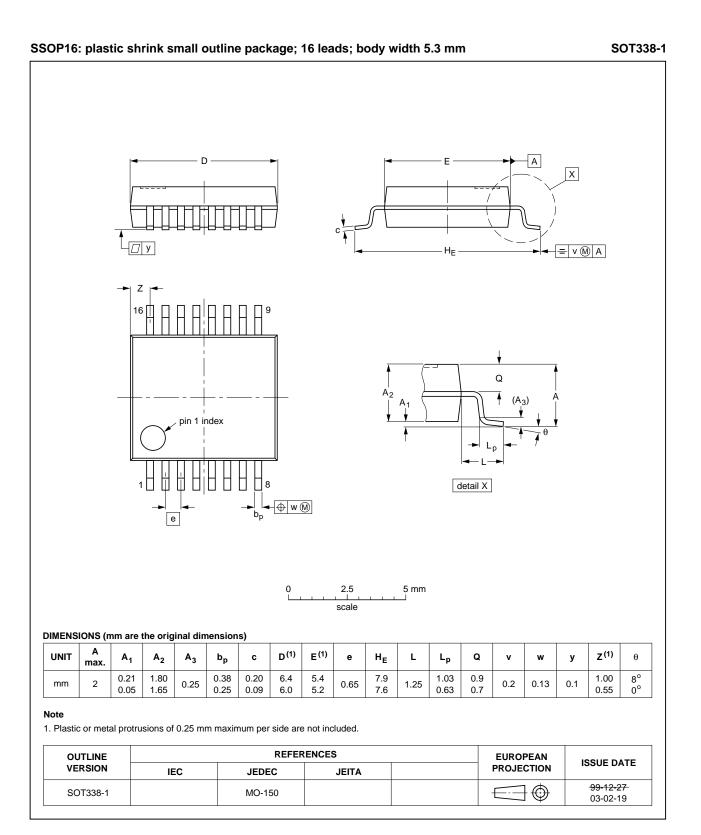


Fig 11. Package outline SOT338-1 (SSOP16)

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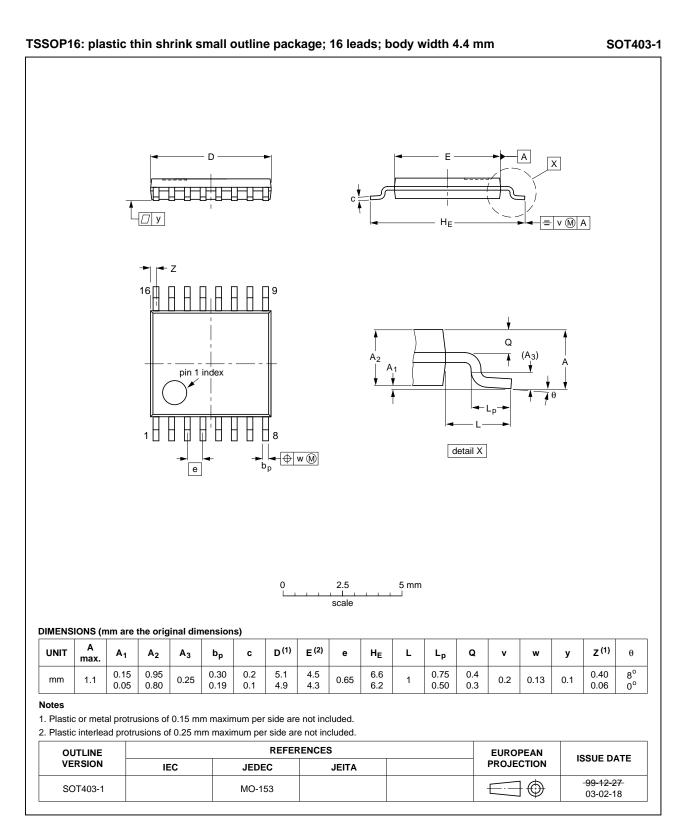
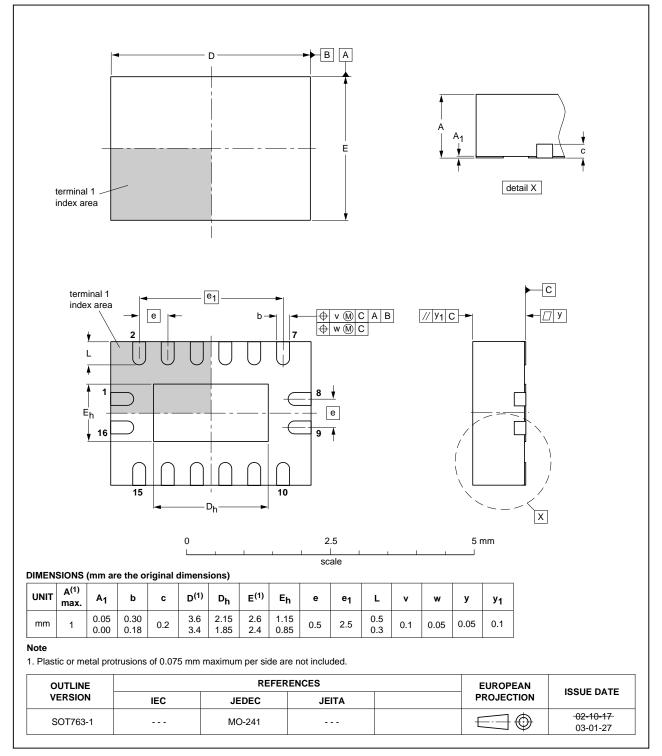


Fig 12. Package outline SOT403-1 (TSSOP16)

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Quad 2-input multiplexer with 5V tolerant; 3-state



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 13. Package outline SOT763-1 (DHVQFN16)

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Quad 2-input multiplexer with 5V tolerant; 3-state

13. Abbreviations

Table 9.	Abbreviations
Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

14. Revision history

Table 10. Revision h	istory			
Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC257A v.6	20111128	Product data sheet	-	74LVC257A v.5
Modifications:	 Value changes for 	t _{pd} , t _{en} and t _{dis} in <u>Table 7</u>	"Dynamic characteristics"	1
	 Typographical error 	rs corrected		
74LVC257A v.5	20111108	Product data sheet	-	74LVC257A v.4
Modifications:	 The format of this of NXP Semiconduct 	document has been redes ors.	igned to comply with the r	new identity guidelines of
	 Legal texts have be 	een adapted to the new c	ompany name where app	propriate.
	• <u>Table 4, Table 5, Table 5</u>	able 6, Table 7 and Table	8: values added for lowe	r voltage ranges.
74LVC257A v.4	040123	Product specification	-	74LVC257A v.3
74LVC257A v.3	031117	Product specification	-	74LVC257A v.2
74LVC257A v.2	980729	Product specification	-	74LVC257A v.1
74LVC257A v.1	-	-	-	-

Quad 2-input multiplexer with 5V tolerant; 3-state

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".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nxp.com.

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17. Contents

1	General description 1
2	Features and benefits 1
3	Ordering information 2
4	Functional diagram 2
5	Pinning information 3
5.1	Pinning 3
5.2	Pin description 4
6	Functional description 4
7	Limiting values 5
8	Recommended operating conditions 5
9	Static characteristics 6
10	Dynamic characteristics 7
11	Waveforms 8
12	Package outline 11
13	Abbreviations 15
14	Revision history 15
15	Legal information 16
15.1	Data sheet status 16
15.2	Definitions 16
15.3	Disclaimers
15.4	Trademarks 17
16	Contact information 17
17	Contents 18

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Date of release: 28 November 2011 Document identifier: 74LVC257A

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