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Team Nexperia

Quad 2-input multiplexer Rev. 2 — 2 May 2013

Product data sheet

General description 1.

The 74LVC157A-Q100 is a quad 2-input multiplexer which select four bits of data from two sources under the control of a common select input (S). The four outputs present the selected data in the true (non-inverted) form. The enable input (E) is active LOW. When pin E is HIGH, all of the outputs (1Y to 4Y) are forced LOW regardless of all the other input conditions. Moving the data from two groups of registers to four common output buses is a common use of the 74LVC157A-Q100. The state of the common data select input (S) determines the particular register from which the data comes. It can also be used as function generator.

It is useful for implementing highly irregular logic by generating any 4 of the 16 different functions of two variables with one variable common.

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.

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.

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

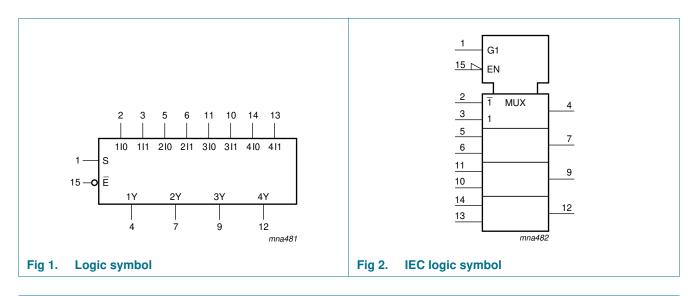
- Automotive product qualification in accordance with AEC-Q100 (Grade 1) Specified from –40 °C to +85 °C and from –40 °C to +125 °C
- 5 V tolerant inputs for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- Direct interface with TTL levels
- Complies 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:
 - 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

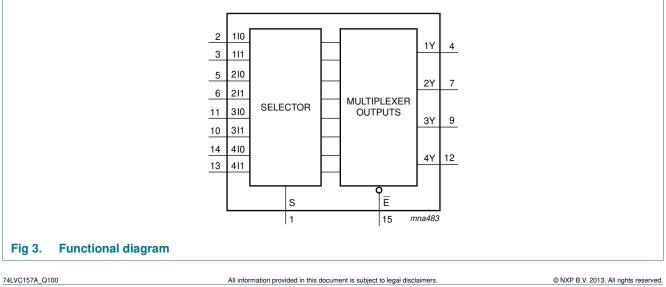


Ordering information 3.

Type number	Package						
	Temperature range	Name	Description	Version			
74LVC157AD-Q100	–40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1			
74LVC157ADB-Q100	–40 °C to +125 °C	SSOP16	plastic shrink small outline package; 16 leads; body width 5.3 mm	SOT338-1			
74LVC157APW-Q100	–40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1			
74LVC157ABQ-Q100	–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	SOT763-1			

4. Functional diagram

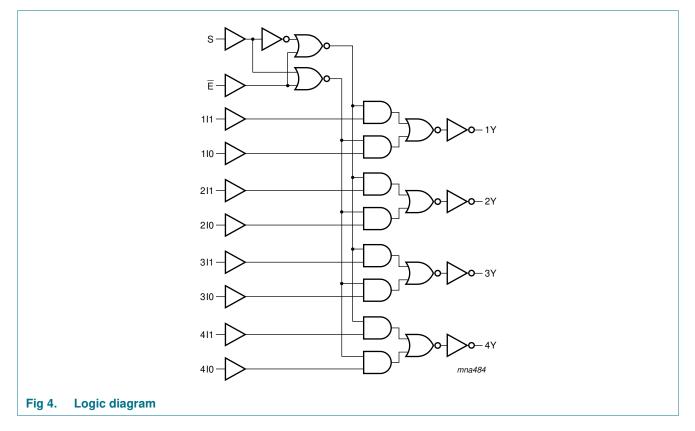




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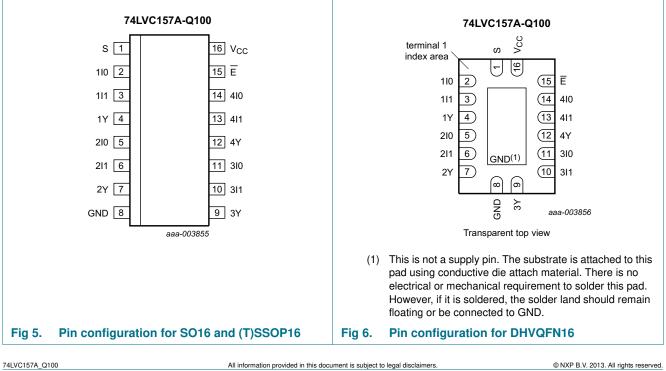
74LVC157A-Q100

Quad 2-input multiplexer



Pinning information 5.

Pinning 5.1



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 _{CC}	16	supply voltage

6. Functional description

Table 3.	Function table ^[1]			
Input				Output
E	S	nl0	nl1	nY
Н	Х	Х	Х	L
L	L	L	Х	L
L	L	Н	Х	Н
L	Н	Х	L	L
L	Н	Х	Н	Н

[1] H = HIGH voltage level; L = LOW voltage level; X = don't care

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
I _{OK}	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0	-	±50	mA
Vo	output voltage		[2] -0.5	$V_{CC} + 0.5$	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	$T_{amb} = -40 \ ^{\circ}C \ to \ +125 \ ^{\circ}C$	[3] _	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.

[3] For SO16 packages: above 70 °C the value of P_D derates linearly with 8 mW/K. For (T)SSOP16 packages: above 60 °C the value of P_D derates linearly with 5.5 mW/K. For DHVQFN16 packages: above 60 °C the value of P_D derates linearly with 4.5 mW/K.

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		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	-	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	$V_{CC} = 1.65 \text{ V}$ to 2.7 V	0	-	20	ns/V
		$V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	0	-	10	ns/V
-						

Quad 2-input multiplexer

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 +8	35 °C	–40 °C to	o +125 ℃	Uni
			Min	Typ <mark>[1]</mark>	Мах	Min	Max	
VIH	HIGH-level	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	V
		$V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$	1.7	-	-	1.7	-	V
		$V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	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
		$V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$	-	-	0.7	-	0.7	V
		$V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	-	-	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	
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	1.65	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	۷
		$I_{O} = -18 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.4	-	-	2.25	-	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	V
V _{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	
		$I_{O} = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	0.8	V
		$I_{O} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	-	0.6	V
		$I_{O} = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.8	۷
I	input leakage current	V_{CC} = 3.6 V; V_{I} = 5.5 V or GND	-	±0.1	±5	-	±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	μA
71 ^{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
CI	input capacitance	$V_{CC} = 0 V$ to 3.6 V; V _I = GND to V _{CC}	-	5.0	-	-	-	рF

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

Quad 2-input multiplexer

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	–40 °C to +85 °C			–40 °C to +125 °C	
				Min	Typ <mark>[1]</mark>	Max	Min	Max	
pd	propagation delay	nI0, nI1 to nY; see Figure 8	[2]						
		V _{CC} = 1.2 V		-	16	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V		1.0	4.8	10.2	1.0	11.8	ns
		$V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$		1.5	2.8	5.8	1.5	6.7	ns
		$V_{CC} = 2.7 V$		1.0	2.9	5.9	1.0	7.5	ns
		$V_{CC} = 3.0 V \text{ to } 3.6 V$		1.0	2.5	5.2	1.0	6.5	ns
		E to nY; see Figure 7	[2]						
		V _{CC} = 1.2 V		-	17	-	-	-	ns
	$V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$		0.5	4.8	12.8	0.5	14.7	ns	
	V_{CC} = 2.3 V to 2.7 V		1.5	2.8	7.2	1.5	8.3	ns	
		$V_{CC} = 2.7 V$		1.0	2.9	7.8	1.0	10.0	ns
		V_{CC} = 3.0 V to 3.6 V		1.0	2.6	6.5	1.0	8.5	ns
	S to nY; see Figure 8	[2]							
	V _{CC} = 1.2 V		-	16	-	-	-	ns	
	$V_{CC} = 1.65 \text{ V}$ to 1.95 V		1.0	5.1	12.4	1.0	14.3	ns	
	V_{CC} = 2.3 V to 2.7 V		1.5	3.0	7.0	1.5	8.1	ns	
		$V_{CC} = 2.7 V$		1.0	3.1	7.3	1.0	9.5	ns
		V_{CC} = 3.0 V to 3.6 V		1.0	2.7	6.3	1.0	8.0	ns
t _{sk(o)}	output skew time	V_{CC} = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns
C _{PD}	power dissipation	per input; $V_I = GND$ to V_{CC}	[4]						
	capacitance	$V_{CC} = 1.65 \text{ V}$ to 1.95 V		-	9.4	-	-	-	pF
		V_{CC} = 2.3 V to 2.7 V		-	12.8	-	-	-	рF
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		-	15.9	-	-	-	рF

[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.

[2] t_{pd} is the same as t_{PLH} and t_{PHL} .

[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 μ W).

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

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

 C_{L} = output load capacitance in pF

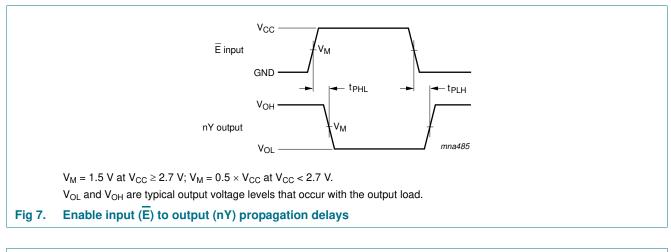
 V_{CC} = supply voltage in V

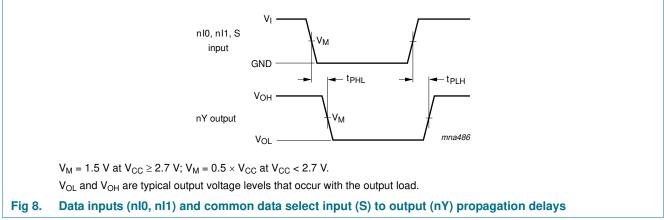
N = number of inputs switching

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

Quad 2-input multiplexer

11. Waveforms





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74LVC157A-Q100

Quad 2-input multiplexer

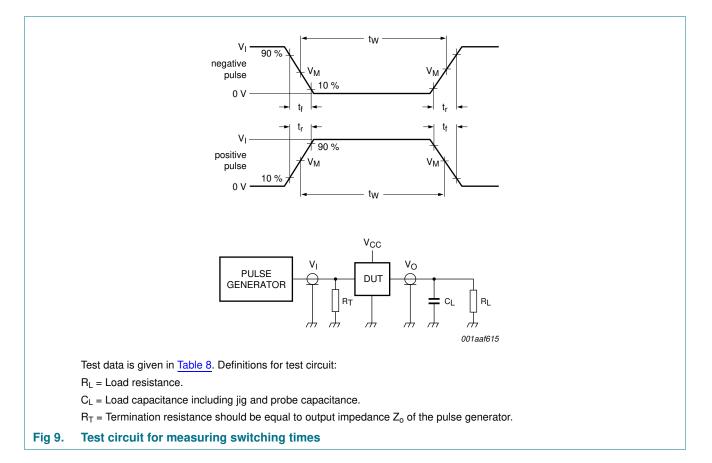


Table 8. Test data

Supply voltage	Input		Load		
	VI	t _r , t _f	CL	RL	
1.2 V	V _{CC}	\leq 2 ns	30 pF	1 kΩ	
1.65 V to 1.95 V	V _{CC}	\leq 2 ns	30 pF	1 kΩ	
2.3 V to 2.7 V	V _{CC}	\leq 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	\leq 2.5 ns	50 pF	500 Ω	

Quad 2-input multiplexer

12. Package outline

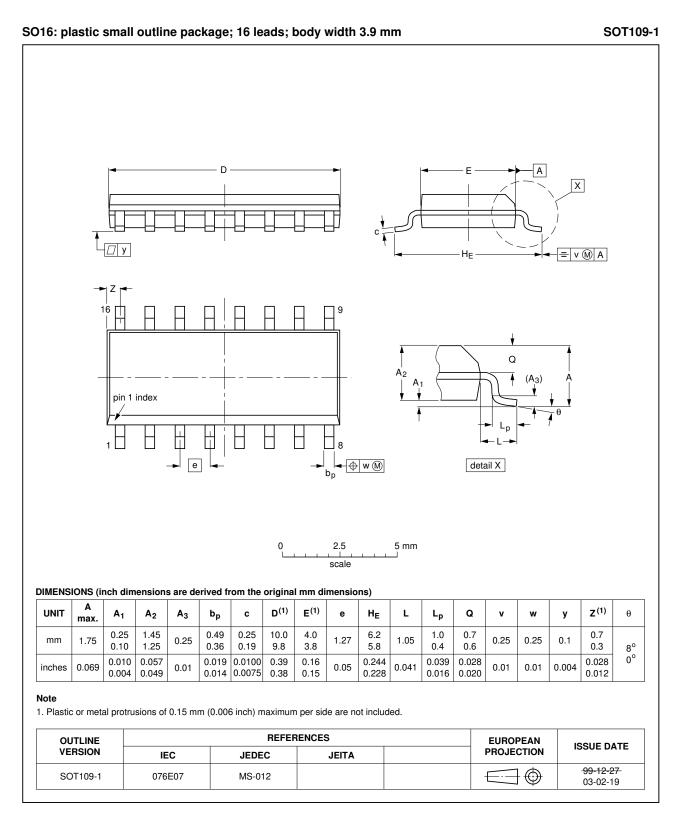


Fig 10. Package outline SOT109-1 (SO16)

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Quad 2-input multiplexer

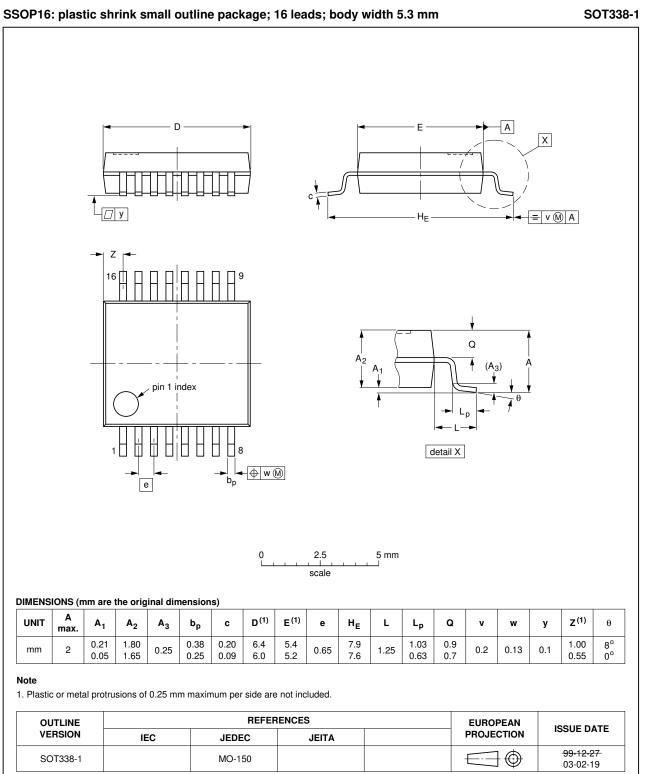


Fig 11. Package outline SOT338-1 (SSOP16)

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Quad 2-input multiplexer

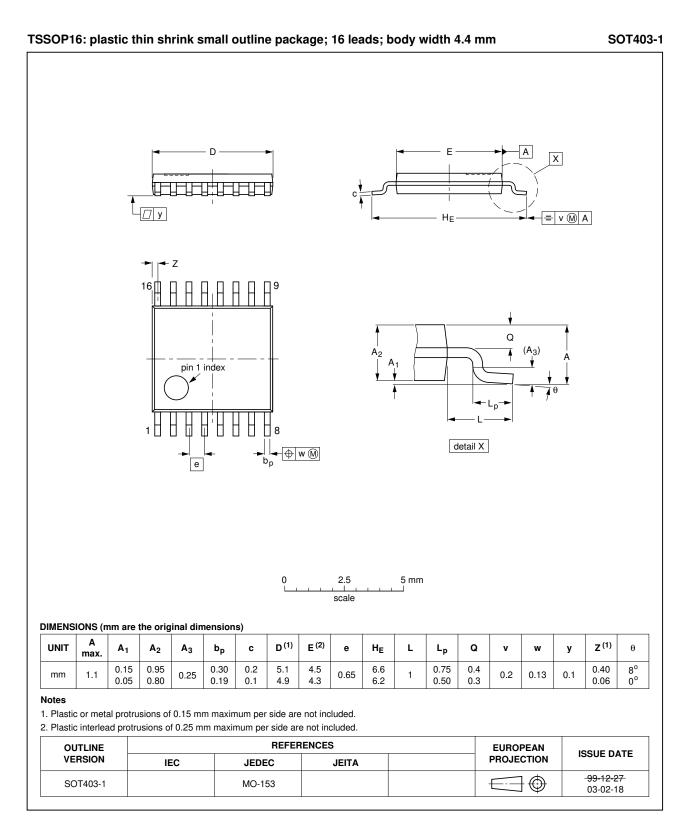
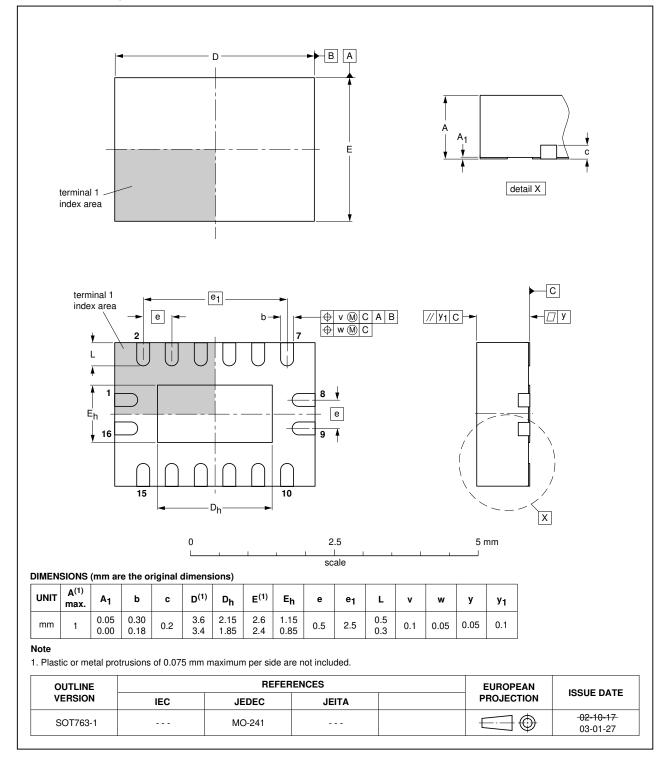


Fig 12. Package outline SOT403-1 (TSSOP16)

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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 13. Package outline SOT763-1 (DHVQFN16)

Quad 2-input multiplexer

13. Abbreviations

AcronymDescriptionCDMCharged Device ModelDUTDevice Under TestESDElectroStatic DischargeHBMHuman Body ModelMMMachine ModelTTLTransistor-Transistor Logic	Table 9.	Abbreviations
DUTDevice Under TestESDElectroStatic DischargeHBMHuman Body ModelMMMachine ModelTTLTransistor-Transistor Logic	Acronym	Description
ESDElectroStatic DischargeHBMHuman Body ModelMMMachine ModelTTLTransistor-Transistor Logic	CDM	Charged Device Model
HBM Human Body Model MM Machine Model TTL Transistor-Transistor Logic	DUT	Device Under Test
MM Machine Model TTL Transistor-Transistor Logic	ESD	ElectroStatic Discharge
TTL Transistor-Transistor Logic	HBM	Human Body Model
	MM	Machine Model
	TTL	Transistor-Transistor Logic
MIL Military	MIL	Military

14. Revision history

Table 10. Revision h	istory			
Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC157A_Q100 v.2	20130502	Product data sheet	-	74LVC157A_Q100 v.1
Modifications:	 74LVC157ADB-Q1 	00 added.		
74LVC157A_Q100 v.1	20120807	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".

[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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Quad 2-input multiplexer

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