Quad 2-input multiplexer Rev. 7 — 21 January 2015

General description 1.

The 74HC157; 74HCT157 is a high-speed Si-gate CMOS device and is pin compatible with Low-power Schottky TTL. It is specified in compliance with JEDEC standard no. 7A.

The 74HC/HCT157 are quad 2-input multiplexers which select 4 bits of data from two sources under the control of a common data select input (S). The enable input (E) is active LOW. When \overline{E} is HIGH, all of the outputs (1Y to 4Y) are forced LOW regardless of all other input conditions.

Moving the data from two groups of registers to four common output buses is a common use of the 74HC/HCT157. 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. The device is useful for implementing highly irregular logic by generating any four of the 16 different functions of two variables with one variable common. The 74HC/HCT157 is logic implementation of a 4-pole, 2-position switch, where the position of the switch is determined by the logic levels applied to S.

The logic equations are:

 $1Y = \overline{E} \times (1I1 \times S + 1I0 \times \overline{S})$ $2Y = \overline{E} \times (2I1 \times S + 2I0 \times \overline{S})$ $3Y = \overline{E} \times (3I1 \times S + 3I0 \times \overline{S})$ $4Y = \overline{E} \times (4I1 \times S + 4I0 \times \overline{S})$

The 74HC/HCT157 is identical to the 74HC158 but has non-inverting (true) outputs.

Features and benefits 2.

- Low-power dissipation
- Non-inverting data path
- ESD protection:
 - HBM JESD22-A114F exceeds 2 000 V
 - MM JESD22-A115-A exceeds 200 V
- Specified from –40 °C to +85 °C and from –40 °C to +125 °C

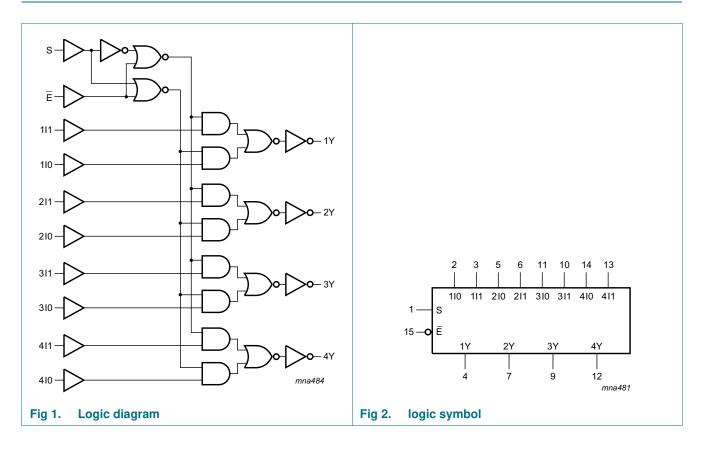


3. Ordering information

Table 1. Ordering information

Type number	Package				
	Temperature range	Name	Description	Version	
74HC157N	–40 °C to +125 °C	DIP16	plastic dual in-line package; 16 leads (300 mil)	SOT38-4	
74HCT157N					
74HC157D	–40 °C to +125 °C	-40 °C to +125 °C SO16 plastic small outline pack		SOT109-1	
74HCT157D	1		3.9 mm		
74HC157DB	–40 °C to +125 °C	SSOP16	plastic shrink small outline package; 16 leads;	SOT338-1	
74HCT157DB			body width 5.3 mm		
74HC157PW	–40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads;	SOT403-1	
74HCT157PW	1		body width 4.4 mm		
74HC157BQ	–40 °C to +125 °C	DHVQFN16	plastic dual in-line compatible thermal enhanced very	SOT763-1	
74HCT157BQ			thin quad flat package; no leads; 16 terminals; body $2.5 \times 3.5 \times 0.85$ mm		

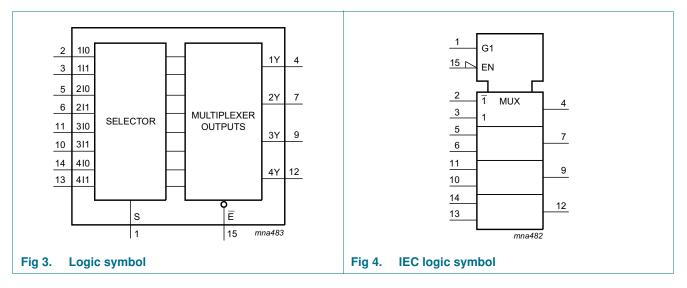
4. Functional diagram



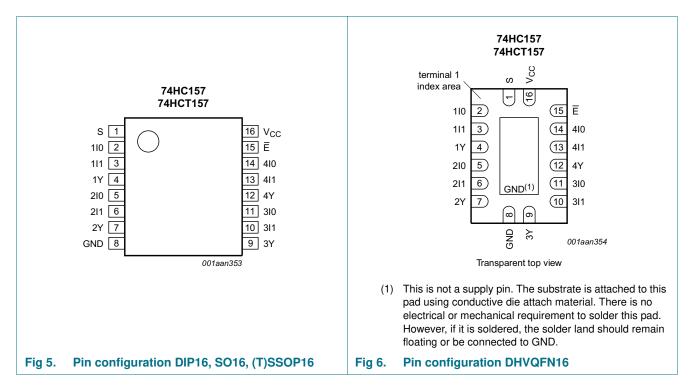
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74HC157; 74HCT157

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5. Pinning information



5.1 Pinning

5.2 Pin description

Table 2. Pi	n description	
Symbol	Pin	Description
S	1	common data select input
110 to 410	2, 5, 11, 14	data inputs from source 0
111 to 411	3, 6, 10, 13	data inputs from source 1
1Y to 4Y	4, 7, 9, 12	multiplexer outputs
GND	8	ground (0 V)
Ē	15	enable input (active LOW)
V _{CC}	16	supply voltage

6. Functional description

Table 3. Function table^[1]

Input	nput					
Ē	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	+7	V
l _{IK}	input clamping current	$V_{I}<-0.5$ V or $V_{I}>V_{CC}$ + 0.5 V		-	±20	mA
I _{OK}	output clamping current	$V_O < -0.5$ V or $V_O > V_{CC}$ + 0.5 V		-	±20	mA
I _O	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$		-	±25	mA
I _{CC}	supply current			-	+50	mA
I _{GND}	ground current			-	-50	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$				
		SO16 package	[1]	-	500	mW
		(T)SSOP16 package	[2]	-	500	mW
		DHVQFN16 package	[3]	-	500	mW

[1] P_{tot} derates linearly with 8 mW/K above 70 °C.

[2] P_{tot} derates linearly with 5.5 mW/K above 60 °C.

[3] P_{tot} derates linearly with 4.5 mW/K above 60 °C.

74HC_HCT157 Product data sheet

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions 74HC157		74HCT157			Unit		
			Min	Тур	Max	Min	Тур	Max	
V _{CC}	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V _{CC}	0	-	V _{CC}	V
Vo	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	$V_{CC} = 2.0 V$	-	-	625	-	-	-	ns/V
		$V_{CC} = 4.5 V$	-	1.67	139	-	1.67	139	ns/V
		$V_{CC} = 6.0 V$	-	-	83	-	-	-	ns/V

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	T _{ar}	_{nb} = 25	°C	T _{amb} = −40 °C to +85 °C		T _{amb} = -40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC157	7	1								
VIH	HIGH-level	V _{CC} = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V _{CC} = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V _{IL}	LOW-level	V _{CC} = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
	V _{CC} = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V	
V _{OH}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
output voltage	$I_{O} = -20 \ \mu A; V_{CC} = 2.0 \ V$	1.9	2.0	-	1.9	-	1.9	-	V	
		$I_{O} = -20 \ \mu A; V_{CC} = 4.5 \ V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -20 \ \mu A; V_{CC} = 6.0 \ V$	5.9	6.0	-	5.9	-	5.9	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.98	4.32	-	3.84	-	3.7	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.48	5.81	-	5.34	-	5.2	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_{O} = 20 \ \mu A; V_{CC} = 2.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_{O} = 20 \ \mu A; V_{CC} = 4.5 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_{O} = 20 \ \mu A; V_{CC} = 6.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_{O} = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		$I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0 V$	-	-	±0.1	-	±1.0	-	±1.0	μA
I _{CC}	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = V_{CC} \text{ or } GND; \ I_{O} = 0 \ A; \\ V_{CC} = 6.0 \ V \end{array}$	-	-	8.0	-	80	-	160	μA

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Symbol	Parameter	Conditions	T _{ar}	_{nb} = 25	°C	T _{amb} = −40 °C to +85 °C		T _{amb} = -40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
CI	input capacitance		-	3.5	-					pF
74HCT1	57									
V _{IH}	HIGH-level input voltage	$V_{CC} = 4.5 V \text{ to } 5.5 V$	2.0	1.6	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	$V_{CC} = 4.5 V \text{ to } 5.5 V$	-	1.2	0.8	-	0.8	-	0.8	V
V _{OH} HIGH-level		$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -4 \text{ mA}$	3.98	4.32	-	3.84	-	3.7	-	V
V _{OL} LOW-level		$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 mA	-	0.15	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	±0.1	-	±1.0	-	±1.0	μA
I _{CC}	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = V_{CC} \text{ or } GND; \ I_{O} = 0 \ A; \\ V_{CC} = 5.5 \ V \end{array}$	-	-	8.0	-	80	-	160	μA
∆l _{CC}	additional supply current	$\label{eq:VI} \begin{array}{l} V_I = V_{CC} - 2.1 \ V; \\ \text{other inputs at } V_{CC} \ \text{or GND}; \\ V_{CC} = 4.5 \ V \ \text{to } 5.5 \ V; \ I_O = 0 \ \text{A} \end{array}$								
		per input pin; nI0, nI1 inputs	-	100	360	-	450	-	490	μA
		per input pin; \overline{E} input	-	60	216	-	270	-	294	μA
		per input pin; S input	-	100	360	-	450	-	490	μA
CI	input capacitance		-	3.5	-					pF

Table 6. Static characteristics ...continued

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

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); $C_L = 50 \text{ pF}$ unless otherwise specified; for test circuit see Figure 9.

Symbol	Parameter	Conditions		amb = 25	°C		= –40 °C -85 °C		= –40 °C 125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC157	7					1				
t _{pd}	propagation	nI0, nI1 to nY; see Figure 7	1]							
	delay	V _{CC} = 2.0 V	-	36	125	-	155	-	190	ns
		V _{CC} = 4.5 V	-	13	25	-	31	-	38	ns
		V _{CC} = 5 V; C _L = 15 pF	-	11	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	10	21	-	26	-	32	ns
		S to nY; see Figure 7	1]							
		V _{CC} = 2.0 V	-	41	125	-	155	-	190	ns
	V _{CC} = 4.5 V	-	15	25	-	31	-	38	ns	
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$	-	12	-	-	-	-	-	ns
		$V_{CC} = 6.0 V$	-	12	21	-	26	-	32	ns
		E to nY; see Figure 8	1]							
		V _{CC} = 2.0 V	-	39	115	-	145	-	175	ns
		V _{CC} = 4.5 V	-	14	23	-	29	-	35	ns
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$	-	11	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	11	20	-	25	-	30	ns
tt	transition	nY; see <u>Figure 7</u>	2]							
	time	V _{CC} = 2.0 V	-	19	75	-	95	-	110	ns
		V _{CC} = 4.5 V	-	7	15	-	19	-	22	ns
		V _{CC} = 6.0 V	-	6	13	-	16	-	19	ns
C _{PD}	power dissipation capacitance	$C_{L} = 50 \text{ pF}; f = 1 \text{ MHz};$ $V_{I} = \text{GND to } V_{\text{CC}}$	3] _	70	-	-	-	-	-	pF
74HCT1	57									
t _{pd}	propagation	nI0, nI1 to nY; see Figure 7	1]							
	delay	V _{CC} = 4.5 V	-	16	27	-	34	-	41	ns
		V _{CC} = 5 V; C _L = 15 pF	-	13	-	-	-	-	-	ns
		S to nY; see Figure 7	1]							
		V _{CC} = 4.5 V	-	22	37	-	46	-	56	ns
		V _{CC} = 5 V; C _L = 15 pF	-	19	-	-	-	-	-	ns
		E to nY; see Figure 8	1]							
		V _{CC} = 4.5 V	-	15	26	-	33	-	39	ns
		V _{CC} = 5 V; C _L = 15 pF	-	12	-	-	-	-	-	ns

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Symbol	Parameter	Conditions	T _{an}	_{nb} = 25	°C		: –40 °C 85 °C		: –40 °C I25 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
t _t	transition	nY; see Figure 7 [2]								
	time	V _{CC} = 4.5 V	-	7	15	-	19	-	22	ns
C _{PD}	power dissipation capacitance	$C_L = 50 \text{ pF}; f = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC} - 1.5 \text{ V}$	-	70	-	-	-	-	-	pF

Table 7. Dynamic characteristics ... continued

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

- [2] t_t is the same as t_{THL} and t_{TLH} .
- [3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

 f_i = input frequency in MHz;

 $f_o = output frequency in MHz;$

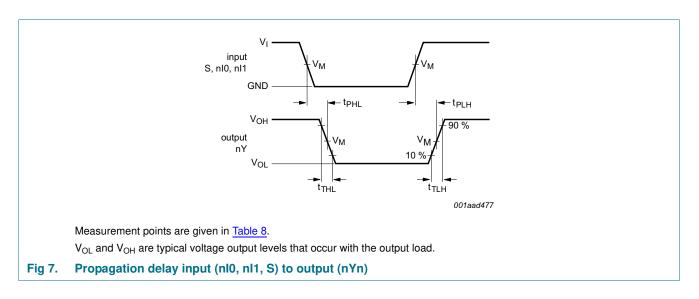
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11. Waveforms



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74HC157; 74HCT157

Quad 2-input multiplexer

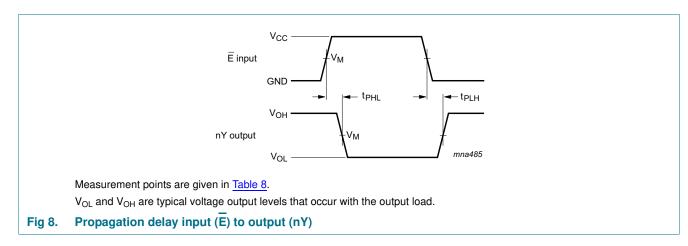


Table 8. Measurement points

Туре	Input	Output
	V _M	V _M
74HC157	0.5V _{CC}	0.5V _{CC}
74HCT157	1.3 V	1.3 V

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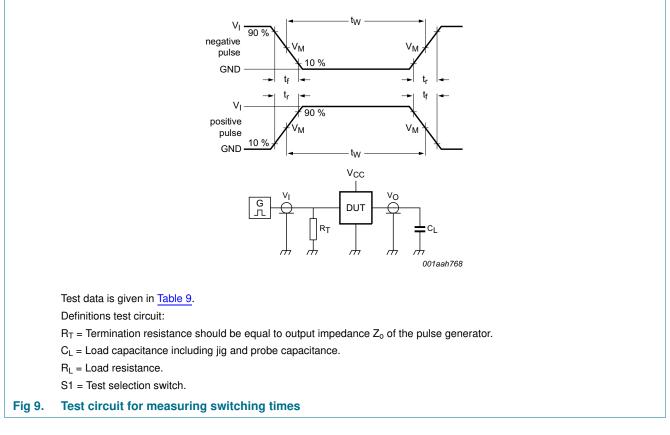


Table 9. Test data

Туре	Input L		Load	Test
	VI	t _r , t _f	CL	
74HC157	V _{CC}	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}
74HCT157	3.0 V	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}

Quad 2-input multiplexer

12. Package outline

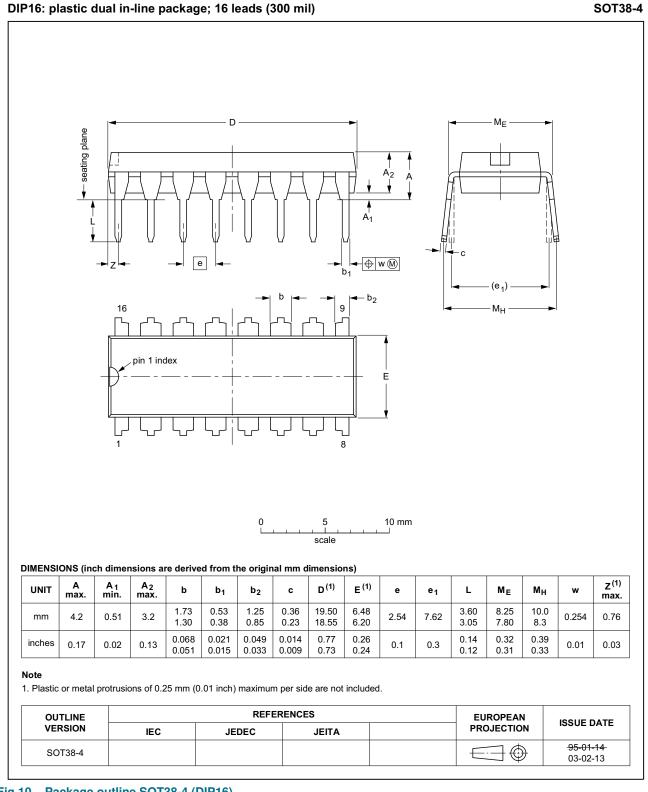


Fig 10. Package outline SOT38-4 (DIP16)

74HC HCT157

Quad 2-input multiplexer

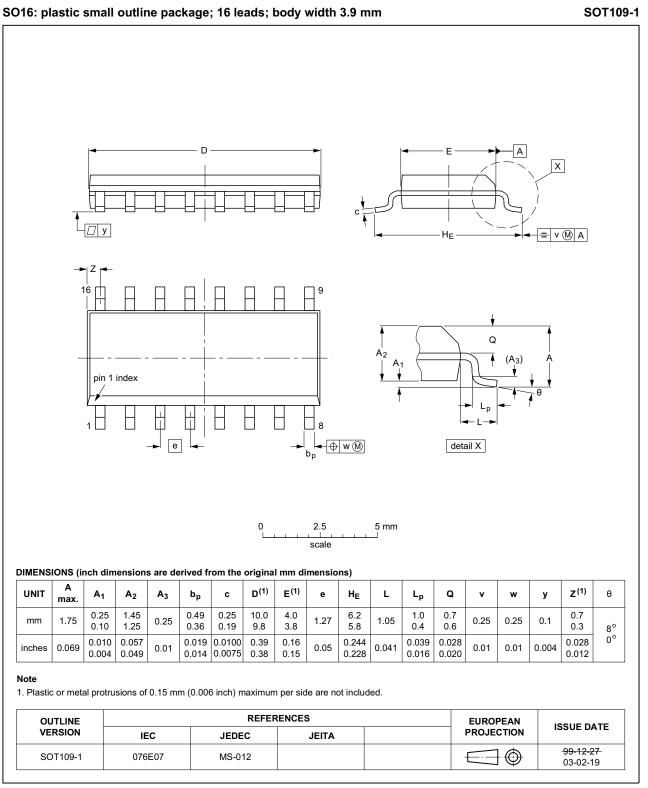


Fig 11. Package outline SOT109-1 (SO16)

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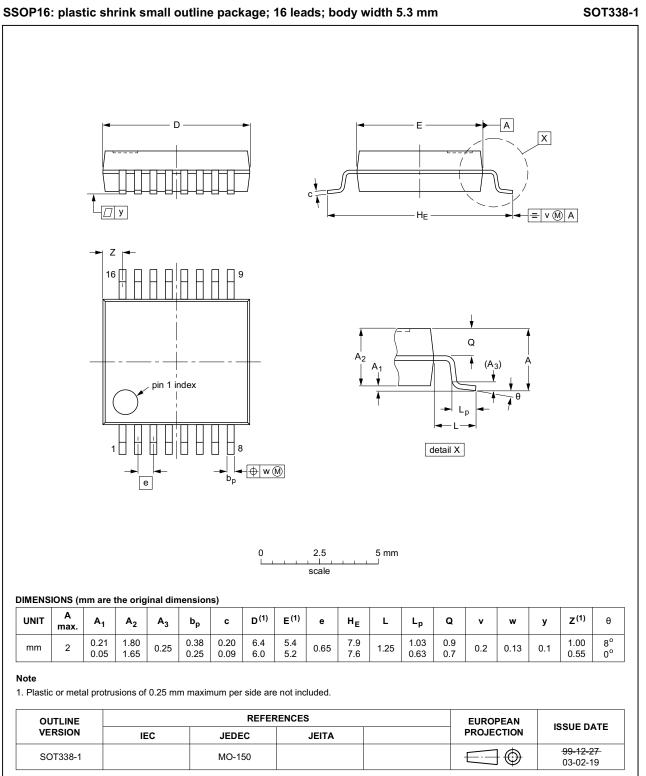


Fig 12. Package outline SOT338-1 (SSOP16)

Quad 2-input multiplexer

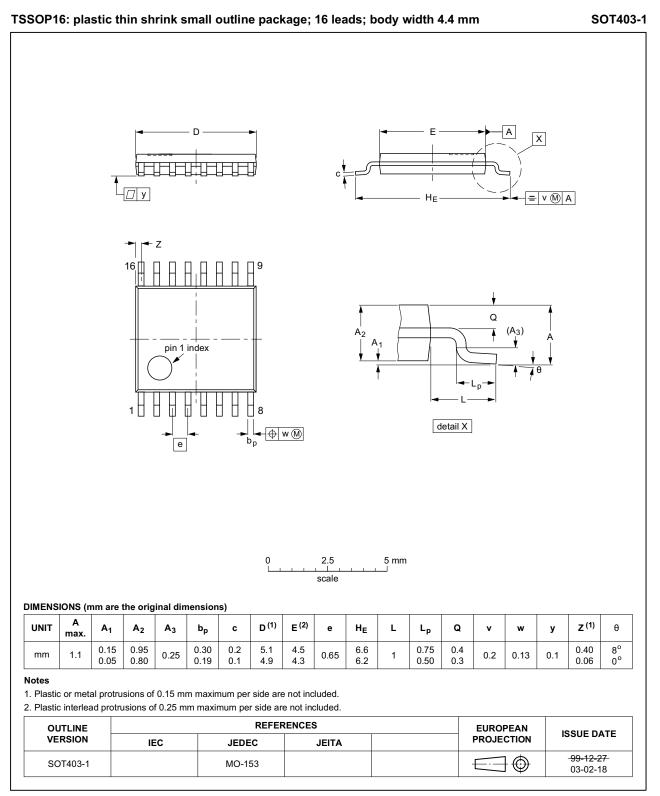
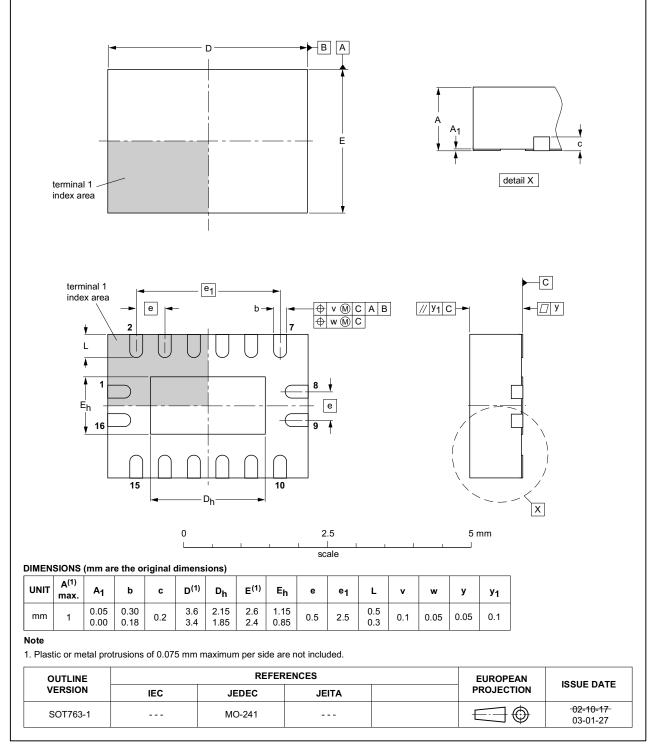


Fig 13. Package outline SOT403-1 (TSSOP16)

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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 14. Package outline SOT763-1 (DHVQFN16)

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13. Abbreviations

Table 10. Abbr	Table 10. Abbreviations					
Acronym	Description					
CMOS	Complementary Metal Oxide Semiconductor					
DUT	Device Under Test					
ESD	ElectroStatic Discharge					
HBM	Human Body Model					
MM	Machine Model					
TTL	Transistor-Transistor Logic					

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT157 v.7	20150121	Product data sheet	-	74HC_HCT157 v.6
Modifications:	<u>Table 7</u> : Power dissipation capacitance condition for 74HCT157 is corrected.			
74HC_HCT157 v.6	20120827	Product data sheet	-	74HC_HCT157 v.5
Modifications:	Package outline drawing DIP16 added.			
74HC_HCT157 v.5	20120425	Product data sheet	-	74HC_HCT157 v.4
Modifications:	Figure 7 updated with transition times.			
74HC_HCT157 v.4	20111219	Product data sheet	-	74HC_HCT157 v.3
74HC_HCT157 v.3	20101231	Product data sheet	-	74HC_HCT157_CNV v.2
74HC_HCT157_CNV v.2	19970827	Product specification	-	-

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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