74HC157-Q100; 74HCT157-Q100

Quad 2-input multiplexer

Rev. 3 — 24 July 2020

Product data sheet

1. General description

The 74HC157-Q100; 74HCT157-Q100 is a quad 2-input multiplexer. The device features select (S) and enable \overline{E} inputs. A HIGH on S selects data source 1, a LOW data source 0. A HIGH on \overline{E} forces all the outputs (1Y to 4Y) LOW. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

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
- Wide supply voltage range from 2.0 V to 6.0 V
- · CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards:
 - JESD8C (2.7 V to 3.6 V)
 - JESD7A (2.0 V to 6.0 V)
- Input levels:
 - For 74HC157-Q100: CMOS level
 - For 74HCT157-Q100: TTL level
- Non-inverting data path
- 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
- DHVQFN package with Side-Wettable Flanks enabling Automatic Optical Inspection (AOI) of solder joints

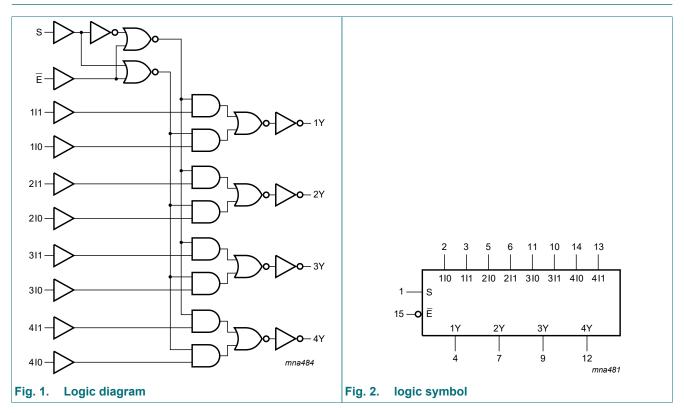
3. Ordering information

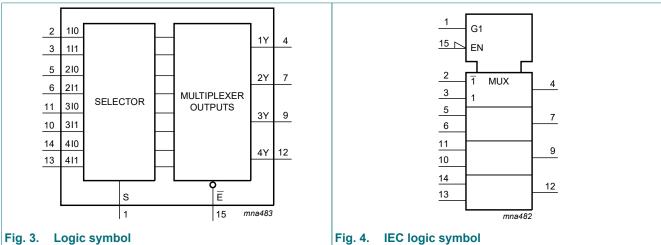
Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74HC157D-Q100	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads;	SOT109-1
74HCT157D-Q100			body width 3.9 mm	
74HC157PW-Q100	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package;	SOT403-1
74HCT157PW-Q100			16 leads; body width 4.4 mm	
74HC157BQ-Q100	-40 °C to +125 °C	DHVQFN16	plastic dual in-line compatible thermal	SOT763-1
74HCT157BQ-Q100			enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 × 3.5 × 0.85 mm	



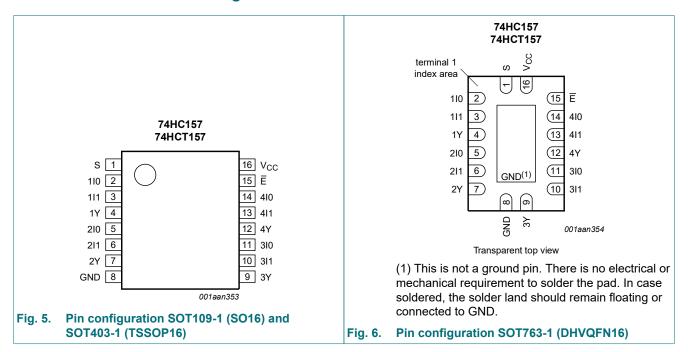
4. Functional diagram





5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Table 2. Fill description		
Symbol	Pin	Description
S	1	common data select input
1I0 to 4I0	2, 5, 11, 14	data inputs from source 0
1I1 to 4I1	3, 6, 10, 13	data inputs from source 1
1Y to 4Y	4, 7, 9, 12	multiplexer outputs
GND	8	ground (0 V)
E	15	enable input (active LOW)
Vcc	16	supply voltage

6. Functional description

Table 3. Function table

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

Input				Output
E	S	nI0	nl1	nY
Н	Х	Х	Х	L
L	L	L	Х	L
L	L	Н	Х	Н
L	Н	Х	L	L
L	Н	X	Н	Н

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
I _{IK}	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$		-	±20	mA
I _{OK}	output clamping current	V_{O} < -0.5 V or V_{O} > V_{CC} + 0.5 V		-	±20	mA
Io	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 °C to +125 °C	[1]	-	500	mW

^[1] For SOT109-1 (SO16) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT403-1 (TSSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C. For SOT763-1 (DHVQFN16) package: P_{tot} derates linearly with 11.2 mW/K above 106 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74F	łC157-Q	100	74H	CT157-C	Q100	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
Δt/ΔV	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	Tar	_{nb} = 25	°C		-40 °C 35 °C		: -40 °C 25 °C	Unit
	$I_{O} = -20 \ \mu A; \ V_{CC} = 4.5 \ V_{IO} = -20 \ \mu A; \ V_{CC} = 6.0 \ V_{IO} = -4.0 \ mA; \ V_{CC} = 4.5 \ V_{IO} = -5.2 \ mA; \ V_{CC} = 6.0 \ V_{IO} = -5.2 \ mA; \ V_{CC} = 6.0 \ V_{IO} = 20 \ \mu A; \ V_{CC} = 2.0 \ V_{IO} = 20 \ \mu A; \ V_{CC} = 4.5 \ V_{IO} = 20 \ \mu A; \ V_{CC} = 6.0 \ V_{IO} = 4.0 \ mA; \ V_{CC} = 4.5 \ V_{IO} = 5.2 \ mA; \ V_{CC} = 6.0 \ mA; \ V_{CC}$		Min	Тур	Max	Min	Max	Min	Max	
74HC15	7-Q100									
V _{IH}	_	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}		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}		$V_I = V_{IH}$ or V_{IL}								
	output voltage	I _O = -20 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I _O = -20 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -20 μA; V _{CC} = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I _O = -4.0 mA; V _{CC} = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I _O = -5.2 mA; V _{CC} = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V _{OL}		$V_I = V_{IH}$ or V_{IL}								
	output voltage	I _O = 20 μA; V _{CC} = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 20 μA; V _{CC} = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 mA; V _{CC} = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I _O = 5.2 mA; V _{CC} = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
l _l	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	8.0	-	80	-	160	μΑ
C _I	input capacitance		-	3.5	-	-	-	-	-	pF

Symbol	Parameter	Conditions	Tai	_{mb} = 25	°C		-40 °C 35 °C		-40 °C 25 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT1	57-Q100								<u> </u>	
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 V$								
	output voltage	Ι _Ο = -20 μΑ	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -4 mA	3.98	4.32	-	3.84	-	3.7	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 V$								
	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
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	8.0	-	80	-	160	μA
ΔI _{CC}	additional supply current	$V_I = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A};$ other inputs at V_{CC} or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V								
		per input pin; nI0, nI1 inputs	-	100	360	-	450	-	490	μΑ
		per input pin; E input	-	60	216	-	270	-	294	μΑ
		per input pin; S input	-	100	360	-	450	-	490	μΑ
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); C_L = 50 pF unless otherwise specified; for test circuit see Fig. 9.

Symbol	Parameter	Conditions		T _{amb} = 25 °C				= -40 °C ·85 °C	T _{amb} to +	Unit	
				Min	Тур	Max	Min	Max	Min	Max	
74HC15	7-Q100										
t _{pd}	propagation	nl0, nl1 to nY; see Fig. 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 Fig. 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 V; C _L = 15 pF		-	12	-	-	-	-	-	ns
		V _{CC} = 6.0 V		-	12	21	-	26	-	32	ns
		E to nY; see Fig. 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 V; C _L = 15 pF		-	11	-	-	-	-	-	ns
		V _{CC} = 6.0 V		-	11	20	-	25	-	30	ns
t _t	transition	nY; see Fig. 7	[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 pF; f = 1 MHz; V_I = GND to V_{CC}	[3]	-	70	-	-	-	-	-	pF

Symbol	Parameter	Conditions		T _{ar}	_{nb} = 25	°C	- 34 - 4 			Unit	
				Min	Тур	Max	Min	Max	Min	Max	
74HCT1	57-Q100	,									_
t _{pd}	propagation	nI0, nI1 to nY; see Fig. 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 Fig. 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 Fig. 8	[1]								
		V _{CC} = 4.5 V		-	15	26	-	33	-	39	ns
		V _{CC} = 5 V; C _L = 15 pF		-	12	-	-	-	-	-	ns
t _t	transition	nY; see Fig. 7	[2]								
	time	V _{CC} = 4.5 V		-	7	15	-	19	-	22	ns
C _{PD}	power dissipation capacitance	C_L = 50 pF; f = 1 MHz; V _I = GND to V _{CC} - 1.5 V	[3]	-	70	-	-	-	-	-	pF

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

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

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

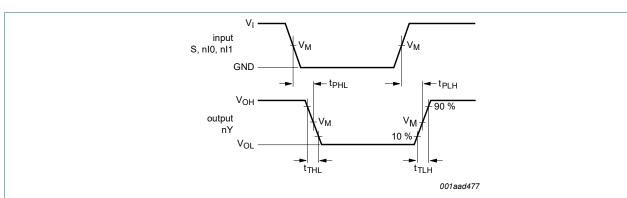
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

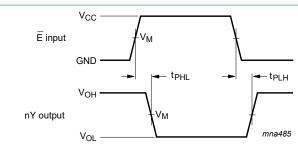
10.1. Waveforms



Measurement points are given in Table 8.

 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Propagation delay input (nI0, nI1, S) to output (nYn) Fig. 7.



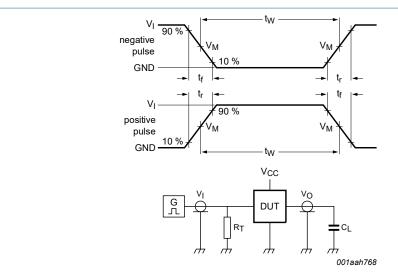
Measurement points are given in Table 8.

V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig. 8. Propagation delay input (E) to output (nY)

Table 8. Measurement points

Туре	Input	Output
	V _M	V _M
74HC157-Q100	0.5V _{CC}	0.5V _{CC}
74HCT157-Q100	1.3 V	1.3 V



Test data is given in Table 9.

Definitions test circuit:

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

 C_L = Load capacitance including jig and probe capacitance.

R_L = Load resistance.

S1 = Test selection switch.

Fig. 9. Test circuit for measuring switching times

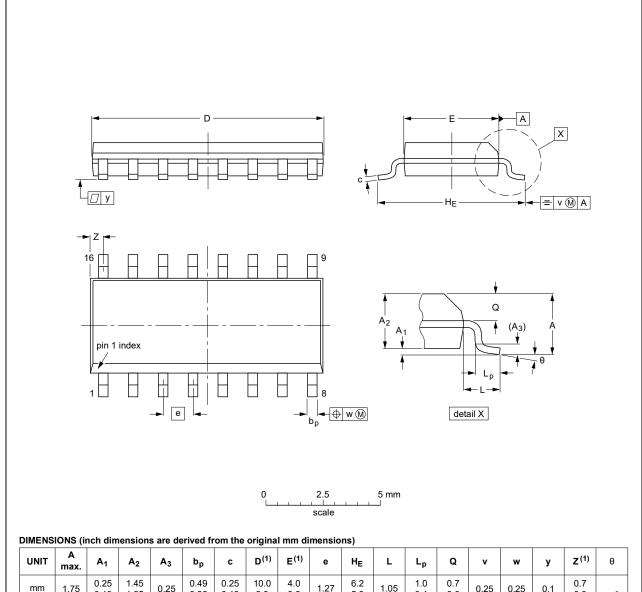
Table 9. Test data

Туре	Input		Load	Test
	V _I	t _r , t _f	CL	
74HC157-Q100	V _{CC}	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}
74HCT157-Q100	3.0 V	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}

11. Package outline

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

SOT109-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	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.

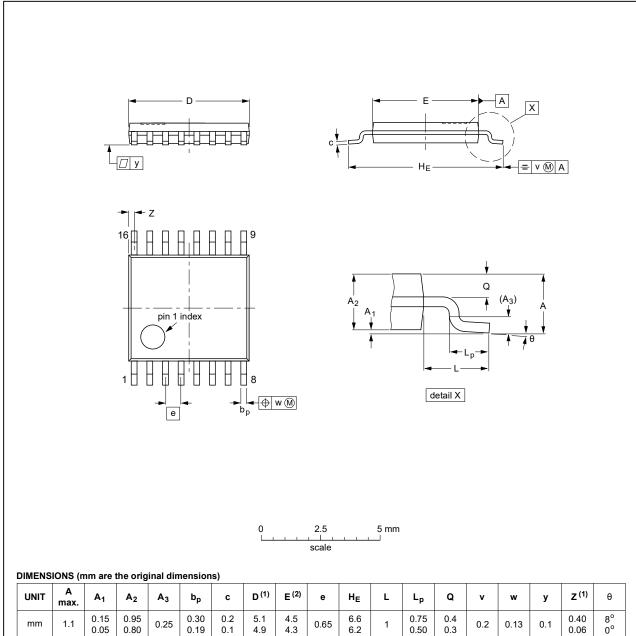
	OUTLINE VERSION		REFER	EUROPEAN	ISSUE DATE		
		IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
	SOT109-1	076E07	MS-012				99-12-27 03-02-19

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

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

SOT403-1



UNIT	max.	A ₁	A ₂	A ₃	b _p	С	(יים	E (2)	е	HE	L	Lp	Q	V	w	У	Z(')	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	5.1 4.9	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.40 0.06	8° 0°

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	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT403-1		MO-153				99-12-27 03-02-18	

Fig. 11. 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

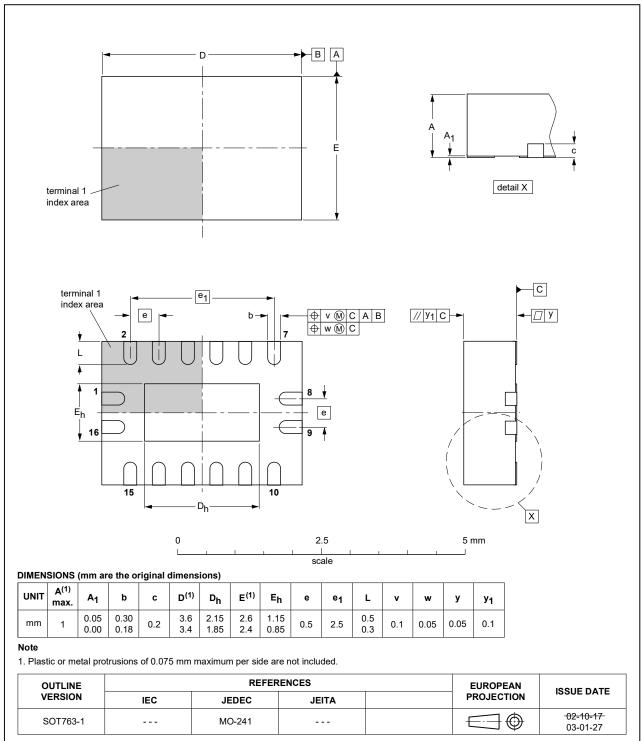


Fig. 12. Package outline SOT763-1 (DHVQFN16)

12. Abbreviations

Table 10. Abbreviations

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

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes			
74HC_HCT157_Q100 v.3	20200724	Product data sheet	-	74HC_HCT157_Q100 v.2			
Modifications:	Nexperia. Legal texts h Section 1 and	f this data sheet has been ave been adapted to the n d <u>Section 2</u> updated. ating values for P _{tot} total po	ew company name w				
74HC_HCT157_Q100 v.2	20150121	Product data sheet	-	74HC_HCT157_Q100 v.1			
Modifications:	<u>Table 7</u> : Power dissipation capacitance condition for 74HCT157 is corrected.						
74HC_HCT157_Q100 v.1	20120802	Product data sheet	-	-			

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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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