74AHC157; 74AHCT157

Quad 2-input multiplexer

Rev. 5 — 7 March 2024

Product data sheet

1. General description

The 74AHC/AHCT157 are high-speed Si-gate CMOS devices and are pin compatible with Low Power Schottky TTL (LSTTL). They are specified in compliance with JEDEC standard no. 7A.

The 74AHC/AHCT157 are quad 2-input multiplexer which select 4 bits of data from two sources under the control of a common data select input (S). The enable input (\overline{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 74AHC/AHCT157. 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 74AHC/AHCT157 is logic implementation of a 4-pole, 2-position switch, where the position of the switch is determine by the logic levels applied to S.

The logic equations are:

- 1Y = E × (1I1 × S + 1I0 × S)
- $2Y = \overline{E} \times (211 \times S + 210 \times \overline{S})$
- $3Y = \overline{E} \times (311 \times S + 310 \times \overline{S})$
- $4Y = \overline{E} \times (411 \times S + 410 \times \overline{S})$

2. Features and benefits

- Balanced propagation delays
- All inputs have a Schmitt-trigger action
- Inputs accepts voltages higher than V_{CC}
- Multiple input enable for easy expansion
- Ideal for memory chip select decoding
- For 74AHC157 only: operates with CMOS input levels
- For 74AHCT157 only: operates with TTL input levels
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

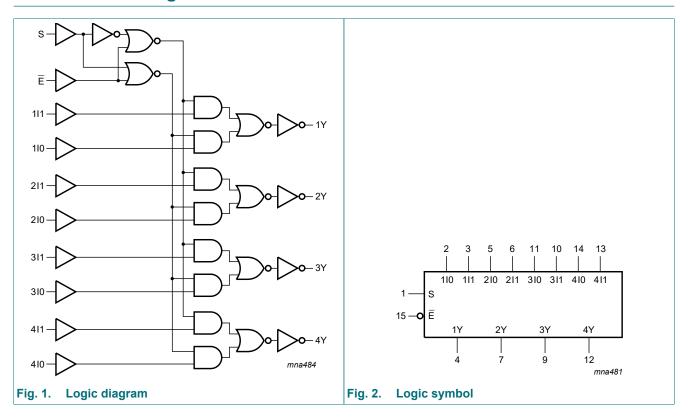


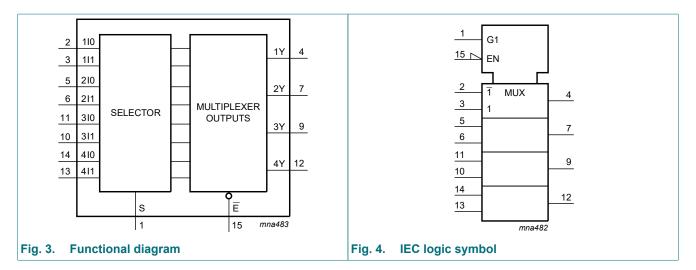
3. Ordering information

Table 1. Ordering information

Type number	Package								
	Temperature range	Name	Description	Version					
74AHC157D 74AHCT157D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1					
74AHC157PW 74AHCT157PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1					
74AHC157BQ 74AHCT157BQ	-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					

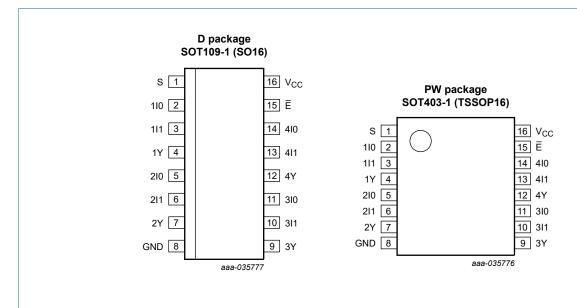
4. Functional diagram



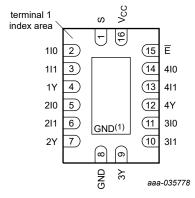


5. Pinning information

5.1. Pinning



BQ package SOT763-1 (DHVQFN16)



Transparent top view

(1) This is not a ground pin. There is no electrical or mechanical requirement to solder the pad. In case soldered, the solder land should remain floating or connected to GND.

5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
S	1	common data select input
110 to 410	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)
V _{CC}	16	supply voltage

6. Functional description

Table 3. Function table

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

Input	put						
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			

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	+7.0	V
VI	input voltage			-0.5	+7.0	V
I _{IK}	input clamping current	V _I < -0.5 V	[1]	-20	-	mA
I _{OK}	output clamping current	V_{O} < -0.5 V or V_{O} > V_{CC} + 0.5 V	[1]	-	±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			-	75	mA
I _{GND}	ground current			-75	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C	[2]	-	500	mW

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

^[2] 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	74AHC157			7	57	Unit	
			Min	Тур	Max	Min	Тур	Max	
V _{CC}	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	0	-	5.5	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	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	-	-	100	-	-	-	ns/V
	fall rate	V _{CC} = 5.0 V ± 0.5 V	-	-	20	-	-	20	ns/V

9. Static characteristics

Table 6. Static characteristics

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max]
74AHC1	57									
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V _{CC} = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V _{IL}	LOW-level	V _{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V _{CC} = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V _{OH}	HIGH-level	V _I = V _{IH} or V _{IL}								
	output voltage	I _O = -50 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I _O = -50 μA; V _{CC} = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I _O = -50 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I_{O} = -4.0 mA; V_{CC} = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		I_{O} = -8.0 mA; V_{CC} = 4.5 V	3.94	-	-	3.8	-	3.70	-	V
V _{OL}	LOW-level	V _I = V _{IH} or V _{IL}								
	output voltage	$I_O = 50 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu A; V_{CC} = 3.0 V$	-	0	0.1	-	0.1	-	0.1	V
		I _O = 50 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I_{O} = 4.0 mA; V_{CC} = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		I_{O} = 8.0 mA; V_{CC} = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	4.0	-	40	-	80	μΑ
C _I	input capacitance		-	3.0	10	-	10	-	10	pF
C _O	output capacitance		-	4.0	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHCT	157									
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -8.0 mA	3.94	-	-	3.8	-	3.70	-	V
V _{OL} LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$									
	output voltage	I _O = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
Icc	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	4.0	-	40	-	80	μΑ
ΔI _{CC}	additional supply current	per input pin; $V_1 = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A};$ other pins at V_{CC} or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
Cı	input capacitance		-	3	10	-	10	-	10	pF
Co	output capacitance		-	4.0	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; for test circuit see Fig. 7.

Symbol	Parameter	Conditions		25 °C		-40 °C 1	to +85 °C	-40 °C t	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC1	57		'				1		-	
t _{pd}	propagation	nl0, nl1 to nY; see Fig. 5 [2]								
	delay	V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	4.4	9.7	1.0	11.5	1.0	12.5	ns
		C _L = 50 pF	-	6.3	13.2	1.0	15.0	1.0	16.5	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	3.2	6.4	1.0	7.5	1.0	8.0	ns
		C _L = 50 pF	-	4.6	8.4	1.0	9.5	1.0	10.5	ns
		S to nY; see <u>Fig. 5</u> [2]								
		V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	4.8	13.6	1.0	16.0	1.0	17.0	ns
		C _L = 50 pF	-	6.8	17.1	1.0	19.5	1.0	21.5	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	3.6	8.6	1.0	10.0	1.0	11.0	ns
		C _L = 50 pF	-	5.2	10.6	1.0	12.0	1.0	13.5	ns
		E to nY; see Fig. 6 [2]								
		V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	5.9	13.2	1.0	15.5	1.0	16.5	ns
		C _L = 50 pF	-	8.4	16.7	1.0	19.0	1.0	21.0	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	4.2	8.1	1.0	9.5	1.0	10.5	ns
		C _L = 50 pF	-	6.0	10.1	1.0	11.5	1.0	13.0	ns
C _{PD}	power dissipation	C_L = 50 pF; f_i = 1 MHz; [3] V _I = GND to V _{CC}								
	capacitance	4 outputs switching via S	-	31	-	-	-	-	-	pF
		1 output switching via I	-	13	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C to	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHCT	157									'
t _{pd}	propagation	nl0, nl1 to nY; see Fig. 5 [2]								
	delay	V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	3.2	6.4	1.0	7.5	1.0	8.0	ns
		C _L = 50 pF	-	4.6	8.7	1.0	9.8	1.0	11.0	ns
		S to nY; see Fig. 5								
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	3.7	8.6	1.0	10.0	1.0	11.0	ns
		C _L = 50 pF	-	5.2	10.4	1.0	12.0	1.0	13.0	ns
		E to nY; see Fig. 6 [2]								
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	4.7	8.1	1.0	9.5	1.0	10.5	ns
		C _L = 50 pF	-	6.7	10.6	1.0	12.0	1.0	13.5	ns
C _{PD}	power dissipation	C_L = 50 pF; f_i = 1 MHz; [3] V _I = GND to V _{CC}								
	capacitance	4 outputs switching via S	-	41	-	-	-	-	-	pF
		1 output switching via I	-	16	-	-	-	-	-	pF

- Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V and V_{CC} = 5.0 V).
- [2]
- t_{pd} is the same as t_{PLH} and t_{PHL} . C_{PD} is used to determine the dynamic power dissipation P_D (μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

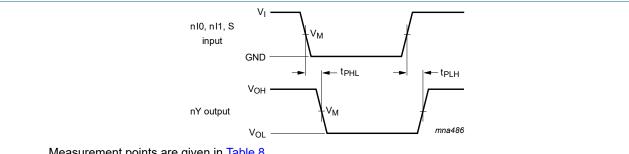
 f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in Volts.

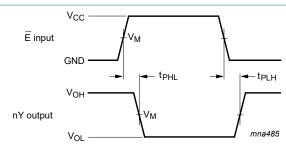
10.1. Waveforms and test circuit



Measurement points are given in Table 8.

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

Fig. 5. Propagation delay input (nl0, nl1, S) to output (nYn)



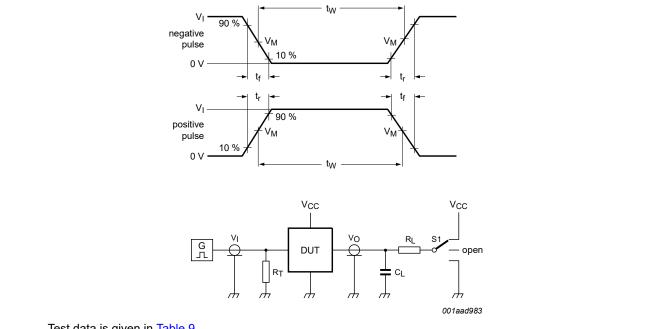
Measurement points are given in Table 8.

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

Fig. 6. Propagation delay input (E) to output (nY)

Table 8. Measurement points

Туре	Input	Output
	V _M	V _M
74AHC157	0.5 × V _{CC}	0.5 × V _{CC}
74AHCT157	1.5 V	0.5 × V _{CC}



Test data is given in Table 9.

Definitions test circuit:

 R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator;

C_L = Load capacitance including jig and probe capacitance;

R_I = Load resistance;

S1 = Test selection switch.

Fig. 7. Test circuit for measuring switching times

Table 9. Test data

Туре	Input		Load		S1 position			
	V _I	t _r , t _f	CL	R_L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t_{PZL}, t_{PLZ}	
74AHC157	V _{CC}	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	
74AHCT157	3.0 V	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	

11. Package outline

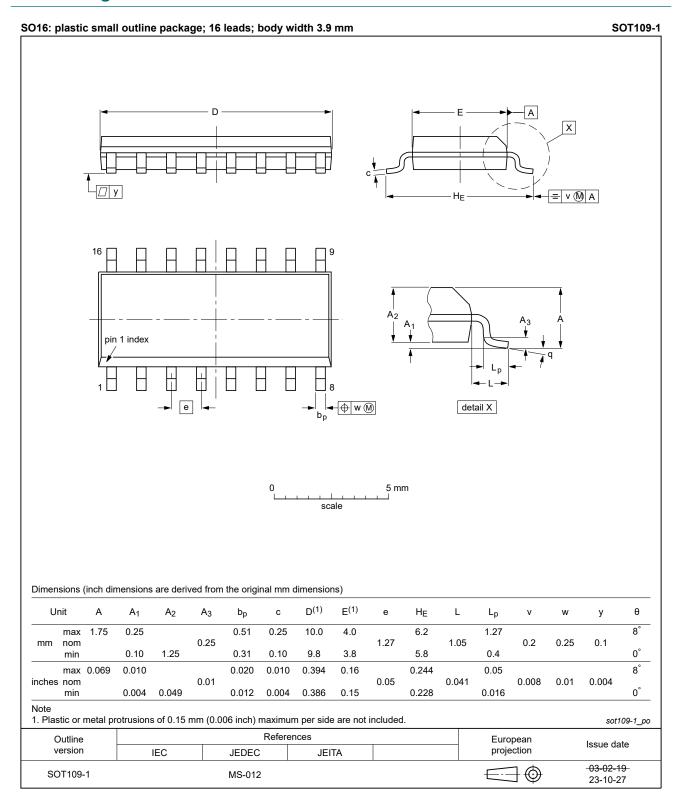


Fig. 8. Package outline SOT109-1 (SO16)

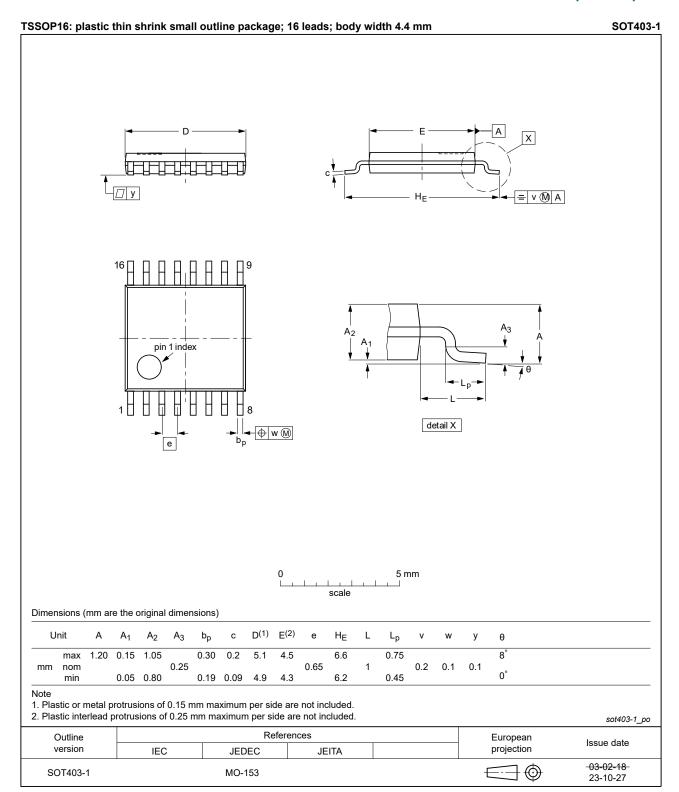


Fig. 9. Package outline SOT403-1 (TSSOP16)

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

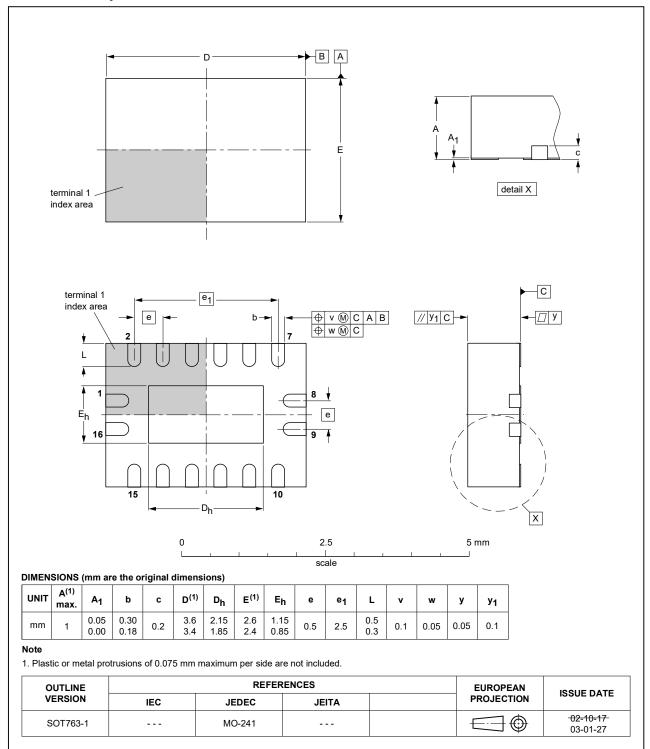


Fig. 10. Package outline SOT763-1 (DHVQFN16)

12. Abbreviations

Table 10. Abbreviations

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

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT157 v.5	20240307	Product data sheet	-	74AHC_AHCT157 v.4
Modifications:	• Fig. 8, Fig. 9: A MO-153.	Aligned SO and TSSOP packa	ge outline drawings	to JEDEC MS-012 and
74AHC_AHCT157 v.4	20230905	Product data sheet	-	74AHC_AHCT157 v.3
Modifications:	Section 2: ESI	Specification updated accord	ing to the latest JED	EC standard.
74AHC_AHCT157 v.3	20200910	Product data sheet	-	74AHC_AHCT157 v.2
Modifications:	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Table 4: Derating values for P_{tot} total power dissipation have been updated. 			
74AHC_AHCT157 v.2	20071109	Product data sheet	-	74AHC_AHCT157 v.1
Modifications:	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. Legal texts have been adapted to the new company name where appropriate. Section 3: DHVQFN16 package added. Section 7: derating values added for DHVQFN16 package. Section 11: outline drawing added for DHVQFN16 package. 			
74AHC_AHCT157 v.1	19990924	Product specification	-	-

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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Contents

1. General description	1
2. Features and benefits	1
3. Ordering information	2
4. Functional diagram	2
5. Pinning information	4
5.1. Pinning	4
5.2. Pin description	5
6. Functional description	5
7. Limiting values	5
7. Emiling valuoo	••••••••••••
-	
Recommended operating conditions Static characteristics	6
8. Recommended operating conditions	6
Recommended operating conditions Static characteristics	6 6 8
8. Recommended operating conditions 9. Static characteristics 10. Dynamic characteristics 10.1. Waveforms and test circuit	6
Recommended operating conditions Static characteristics Dynamic characteristics	6
8. Recommended operating conditions	6 8 9 11

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