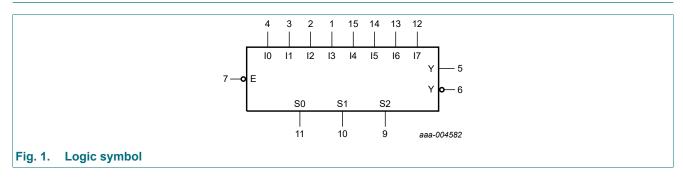
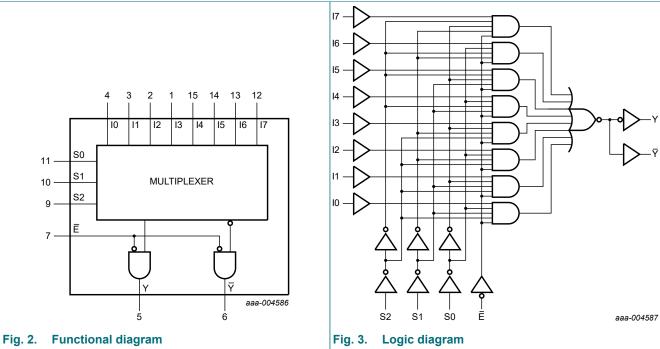
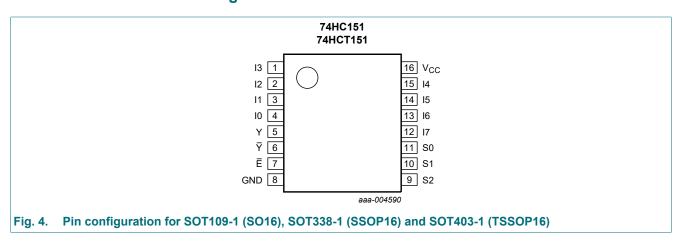
4. Functional diagram





5. Pinning information

5.1. Pinning



Product data sheet

5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
I0 to I7	4, 3, 2, 1, 15, 14, 13, 12	data inputs
Υ	5	multiplexer output
Y	6	complementary multiplexer output
Ē	7	enable input (active LOW)
GND	8	ground (0 V)
S0, S1, S2	11, 10, 9	common data select inputs
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	t											Outp	ut
E	S2	S1	S0	10	I1	12	13	14	15	16	17	Y	Υ
Н	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Н	L
L	L	L	L	L	Х	Х	Х	Х	Х	Х	Х	Н	L
L	L	L	L	Н	Х	Х	Х	Х	Х	Х	Х	L	Н
L	L	L	Н	Х	L	Х	Х	Х	Х	Х	Х	Н	L
L	L	L	Н	Х	Н	Х	Х	Х	Х	Х	Х	L	Н
L	L	Н	L	Х	Х	L	Х	Х	Х	Х	Х	Н	L
L	L	Н	L	Х	Х	Н	Х	Х	Х	Х	Х	L	Н
L	L	Н	Н	Х	Х	Х	L	Х	Х	Х	Х	Н	L
L	L	Н	Н	Х	Х	Х	Н	Х	Х	Х	Х	L	Н
L	Н	L	L	Х	Х	Х	Х	L	Х	Х	Х	Н	L
L	Н	L	L	Х	Х	Х	Х	Н	Х	Х	Х	L	Н
L	Н	L	Н	Х	Х	Х	Х	Х	L	Х	Х	Н	L
L	Н	L	Н	Х	Х	Х	X	Х	Н	Х	Х	L	Н
L	Н	Н	L	Х	Х	Х	Х	Х	Х	L	Х	Н	L
L	Н	Н	L	Х	Х	Х	Х	Х	Х	Н	Х	L	Н
L	Н	Н	Н	Х	Х	Х	Х	Х	Х	Х	L	Н	L
L	Н	Н	Н	Х	Х	Х	Х	Х	Х	Х	Н	L	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	$T_{amb} = -40 ^{\circ}\text{C to} + 125 ^{\circ}\text{C}$ [1] -	500	mW

^[1] For SOT109-1 (SO16) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT338-1 (SSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C. For SOT403-1 (TSSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions		74HC151		7	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	25 °C			-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC15	1									
	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	-	٧
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

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
V _{OH}	HIGH-level	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	-	٧
		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}	LOW-level	$V_I = V_{IH}$ 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
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	8.0	-	80	-	160	μA
Cı	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT1	51									
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	I _O = -20 μA	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	Ι _Ο = 20 μΑ	-	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 V; other inputs at V_{CC} or GND; V_{CC} = 4.5 V to 5.5 V; I_O = 0 A								
		per input pin; In inputs	-	45	162	-	203	-	221	μΑ
		per input pin; E input	-	30	108	-	135	-	147	μΑ
		per input pin; Sn input	-	150	540	-	675	-	735	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. 7.

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74HC15	1			-			1	1		
t _{pd}	propagation	In to Y; see Fig. 5	[1]							
	delay	V _{CC} = 2.0 V	-	52	170	-	215	-	255	ns
		V _{CC} = 4.5 V	-	19	34	-	43	-	51	ns
		V _{CC} = 5 V; C _L = 15 pF	-	17	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	15	29	-	37	-	43	ns
		In to ₹; see Fig. 5	[1]							
		V _{CC} = 2.0 V	-	58	185	-	230	-	280	ns
		V _{CC} = 4.5 V	-	21	37	-	46	-	56	ns
		V _{CC} = 5 V; C _L = 15 pF	-	17	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	17	31	-	39	-	48	ns
		Sn to Y; see Fig. 6	[1]							
		V _{CC} = 2.0 V	-	61	185	-	230	-	280	ns
		V _{CC} = 4.5 V	-	22	37	-	46	-	56	ns
		V _{CC} = 5 V; C _L = 15 pF	-	19	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	18	31	-	39	-	48	ns
		Sn to \overline{Y} ; see Fig. 6	[1]							
		V _{CC} = 2.0 V	-	61	205	-	255	-	310	ns
		V _{CC} = 4.5 V	-	22	41	-	51	-	62	ns
		V _{CC} = 5 V; C _L = 15 pF	-	19	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	18	35	-	43	-	53	ns
		E to Y; see Fig. 6								
		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
		Ē to ₹; see Fig. 6								
		V _{CC} = 2.0 V	-	47	145	-	180	-	220	ns
		V _{CC} = 4.5 V	-	17	29	-	36	-	44	ns
		V _{CC} = 5 V; C _L = 15 pF	-	14	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	14	25	-	31	-	38	ns
t _t	transition	Y, ₹; see <u>Fig. 5</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 pF; f = 1 MHz; V_I = GND to V_{CC}	[3] -	40	-	-	-	-	-	pF

Product data sheet

Symbol	Parameter	Conditions			25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
				Min	Тур	Max	Min	Max	Min	Max	
74HCT1	51										
t _{pd}	propagation	In to Y; see Fig. 5	[1]								
	delay	V _{CC} = 4.5 V		-	22	38	-	48	-	57	ns
		V _{CC} = 5 V; C _L = 15 pF		-	19	-	-	-	-	-	ns
		In to ₹; see Fig. 5	[1]								
		V _{CC} = 4.5 V		-	22	38	-	48	-	57	ns
		V _{CC} = 5 V; C _L = 15 pF		-	19	-	-	-	-	-	ns
		Sn to Y; see Fig. 6	[1]								
		V _{CC} = 4.5 V		-	23	41	-	51	-	62	ns
		V _{CC} = 5 V; C _L = 15 pF		-	20	-	-	-	-	-	ns
		Sn to ₹; see Fig. 6	[1]								
		V _{CC} = 4.5 V		-	25	43	-	54	-	65	ns
		V _{CC} = 5 V; C _L = 15 pF		-	20	-	-	-	-	-	ns
		E to Y; see Fig. 6	[1]								
		V _{CC} = 4.5 V		-	16	29	-	36	-	44	ns
		V _{CC} = 5 V; C _L = 15 pF		-	13	-	-	-	-	-	ns
		E to ∀; see Fig. 6	[1]								
		V _{CC} = 4.5 V		-	21	36	-	45	-	54	ns
		V _{CC} = 5 V; C _L = 15 pF		-	18	-	-	-	-	-	ns
t _t	transition	Y, ₹; see <u>Fig. 5</u>	[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]	-	40	-	-	-	-	-	pF

- $\begin{array}{ll} [1] & t_{pd} \text{ is the same as } t_{PLH} \text{ and } t_{PHL}. \\ [2] & t_t \text{ is the same as } t_{THL} \text{ and } t_{TLH}. \\ [3] & C_{PD} \text{ is used to determine the dynamic power dissipation } (P_D \text{ in } \mu\text{W}). \\ & P_D = C_{PD} \times V_{CC}^{\ \ 2} \times f_i \times N + \Sigma (C_L \times V_{CC}^{\ \ 2} \times f_o) \text{ where:} \end{array}$

 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; $\Sigma(C_L \times V_{CC}^2 \times f_0)$ = sum of outputs.

Product data sheet

10.1. Waveforms and test circuit

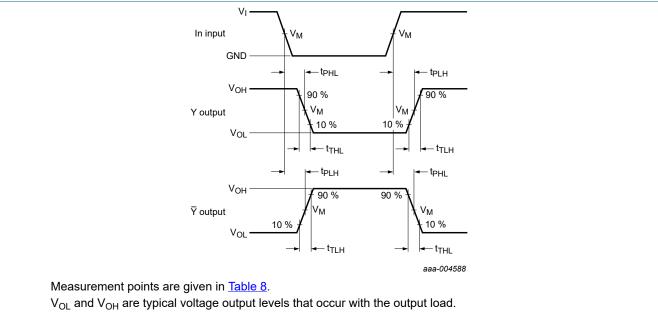


Fig. 5. Propagation delay input (In) to output (Y, \overline{Y}) and the output (Y, \overline{Y}) transition time

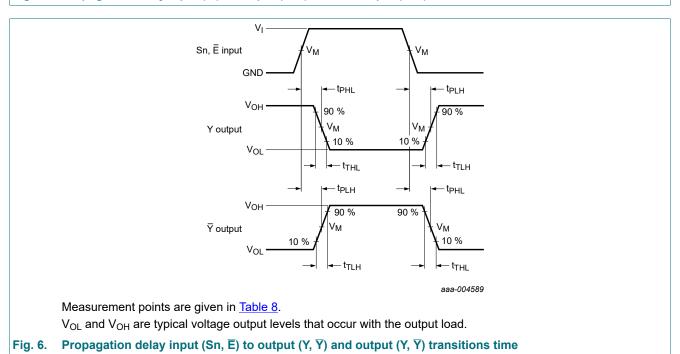
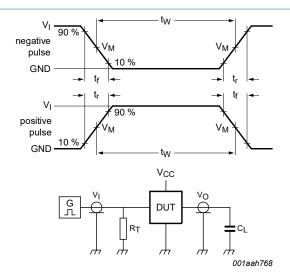


Table 8. Measurement points

Туре	Input	Output
	V _M	V _M
74HC151	0.5V _{CC}	0.5V _{CC}
74HCT151	1.3 V	1.3 V

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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_L = Load resistance.

S1 = Test selection switch.

Fig. 7. Test circuit for measuring switching times

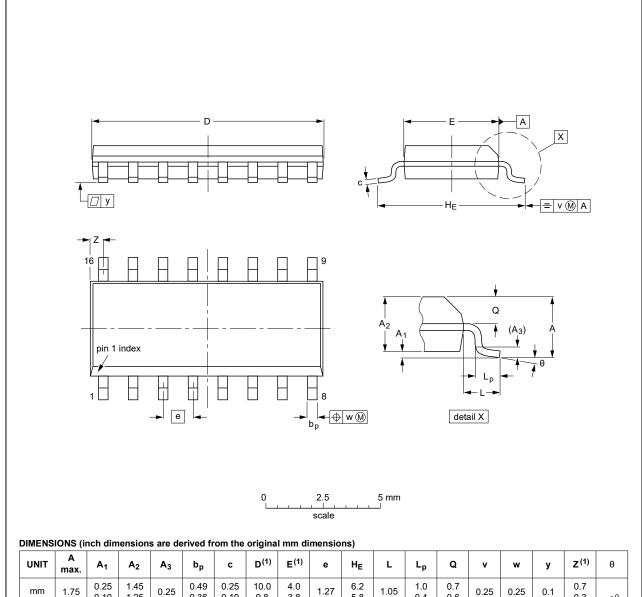
Table 9. Test data

Туре	Input		Load	Test
	V _I	t _r , t _f	C _L	
74HC151	V _{CC}	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}
74HCT151	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		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	1330E DATE
SOT109-1	076E07	MS-012				99-12-27 03-02-19

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

Product data sheet

SSOP16: plastic shrink small outline package; 16 leads; body width 5.3 mm

SOT338-1

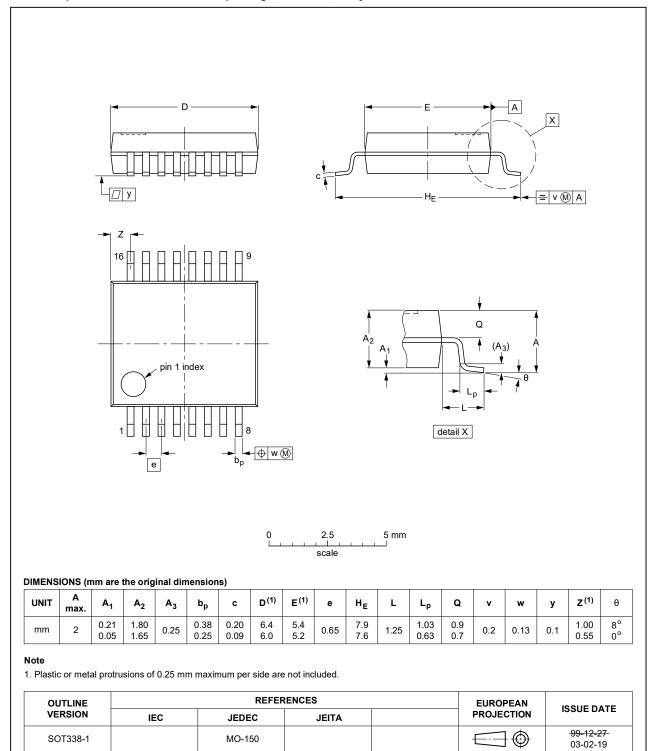
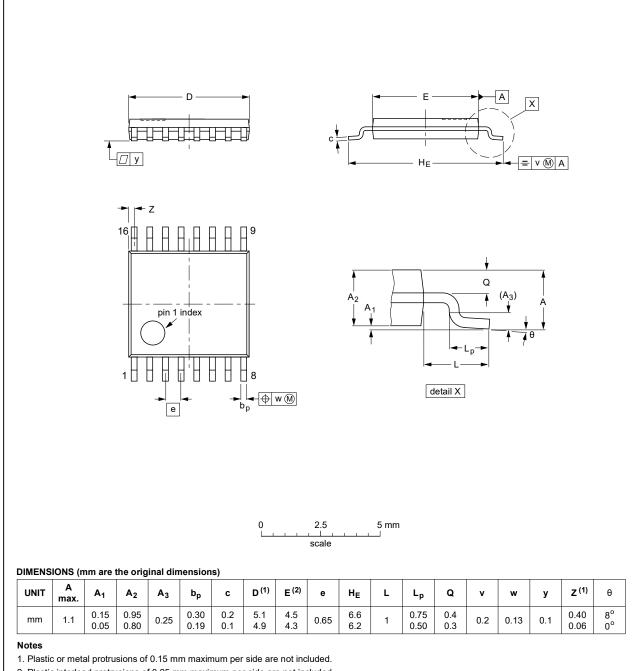


Fig. 9. Package outline SOT338-1 (SSOP16)

Product data sheet

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

SOT403-1



2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

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

Fig. 10. Package outline SOT403-1 (TSSOP16)

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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
TTL	Transistor-Transistor Logic

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74HC_HCT151 v.8	20210318	Product data sheet	-	74HC_HCT151 v.7		
Modifications:	Type number	Type number 74HC151DB (SOT338-1 / SSOP16) added.				
74HC_HCT151 v.7	20210114	Product data sheet	-	74HC_HCT151 v.6		
Modifications:	guidelines of Legal texts Type number	 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. Type numbers 74HC151DB and 74HCT151DB (SOT338-1 / SSOP16) removed. Section 7: Derating values for P_{tot} total power dissipation have been updated. 				
74HC_HCT151 v.6	20151228	Product data sheet	-	74HC_HCT151 v.5		
Modifications:	Type number	Type numbers 74HC151N and 74HCT151N (SOT38-4) removed.				
74HC_HCT151 v.5	20150126	Product data sheet	-	74HC_HCT151 v.4		
Modifications:	<u>Table 7</u> : Power dissipation capacitance condition for 74HCT151 is corrected.					
74HC_HCT151 v.4	20130211	Product data sheet	-	74HC_HCT151 v.3		
Modifications:	New descrip	New descriptive title (errata).				
74HC_HCT151 v.3	20120919	Product data sheet	-	74HC_HCT151_CNV v.2		
74HC_HCT151_CNV v.2	19970827	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".
- 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 https://www.nexperia.com.

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