74HC153; 74HCT153

Dual 4-input multiplexer

Rev. 8 — 13 August 2019

Product data sheet

1. General description

The 74HC153; 74HCT153 is a dual 4-input multiplexer. The device features independent enable inputs ($n\overline{E}$) and common data select inputs (S0 and S1). For each multiplexer, the select inputs select one of the four binary inputs and routes it to the multiplexer output (nY). A HIGH on \overline{E} forces the corresponding multiplexer outputs LOW. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

2. Features and benefits

- Input levels:
 - For 74HC153: CMOS level
 - For 74HCT153: TTL level
- · Non-inverting outputs
- · Separate enable input for each output
- Common select inputs
- Complies with JEDEC standard no. 7A
- · Permits multiplexing from n lines to 1 line
- Enable line provided for cascading (n lines to 1 line)
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C.

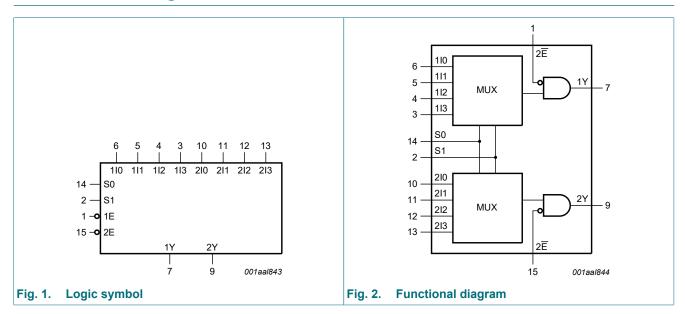
3. Ordering information

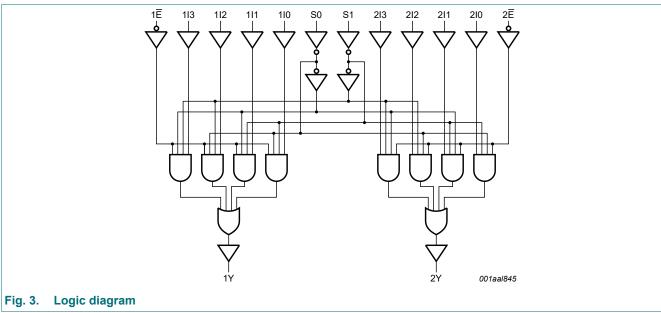
Table 1. Ordering information

Type number	Package	Package								
	Temperature range	Name	Description	Version						
74HC153D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads;	SOT109-1						
74HCT153D			body width 3.9 mm							
74HC153DB	-40 °C to +125 °C	SSOP16	plastic shrink small outline package; 16 leads;	SOT338-1						
74HCT153DB			body width 5.3 mm							
74HC153PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package;	SOT403-1						
74HCT153PW			16 leads; body width 4.4 mm							



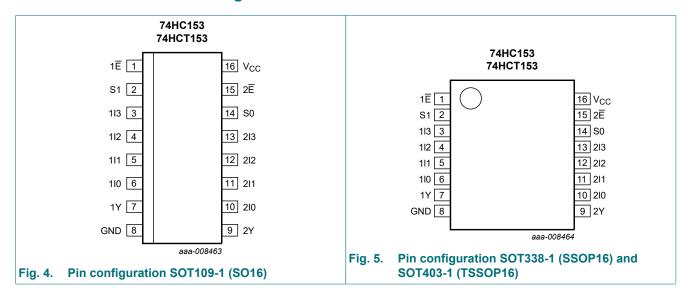
4. Functional diagram





5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1Ē, 2Ē	1, 15	output enable inputs (active LOW)
S0, S1	14, 2	data select inputs
110, 111, 112, 113	6, 5, 4, 3	data inputs source 1
1Y	7	multiplexer output source 1
GND	8	ground (0 V)
2Y	9	multiplexer output source 2
210, 211, 212, 213	10, 11, 12, 13	data inputs source 2
V _{CC}	16	supply voltage

6. Functional description

Table 3. Function table

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

select Inputs		data inputs				output enable	output
S0	S1	nI0	nl1	nl2	nl3	nΕ	nY
Х	X	Χ	X	Х	Χ	Н	L
L	L	L	X	X	X	L	L
L	L	Н	X	Х	Χ	L	Н
Н	L	Х	L	Х	Χ	L	L
Н	L	X	Н	Х	X	L	Н
L	Н	X	X	L	X	L	L
L	Н	X	X	Н	Χ	L	Н
Н	Н	X	Χ	X	L	L	L
Н	Н	Χ	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	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	[1]	-	±20	mA
I _{OK}	output clamping current	V_{O} < -0.5 V or V_{O} > V_{CC} + 0.5 V	[1]	-	±20	mA
Io	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$		-	±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		[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) packages: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT338-1 (SSOP16) packages: P_{tot} derates linearly with 8.5 mW/K above 91 °C. For SOT403-1 (TSSOP16) packages: 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	nditions 74HC153			7	4HCT15	3	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	
74HC153	3	,								
V _{IH}	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	$V_I = V_{IH}$ 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}	LOW-level	V _I = V _{IH} 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 μA; 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 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	-	±1	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	μA
C _I	input capacitance		-	3.5	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT1	53									
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 = -4.0 mA	3.98	4.32	-	3.84	-	3.7	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
output voltage	output voltage	I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	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	-	±1	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	8	-	80	-	160	μΑ
ΔI _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A};$ other inputs at V_{CC} or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V								
		1ln, 2ln	-	45	162	-	203	-	221	μΑ
		nĒ	-	60	216	-	270	-	294	μΑ
		Sn	-	135	486	-	608	-	662	μΑ
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; $t_r = t_f = 6$ ns; $C_L = 50$ pF; for test circuit, see Fig. 8; unless otherwise specified

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74HC15	3								1	
t _{pd}	propagation delay	1In to nY, 2In to nY; [1] 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} = 5.0 V; C _L = 15 pF	-	14	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	14	25	-	31	-	38	ns
		Sn to nY; see Fig. 7								
		V _{CC} = 2.0 V	-	50	150	-	190	-	225	ns
		V _{CC} = 4.5 V	-	18	30	-	38	-	45	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	15	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	14	26	-	33	-	38	ns
		nE to nY; see Fig. 7								
		V _{CC} = 2.0 V	-	33	100	-	125	-	150	ns
		V _{CC} = 4.5 V	-	12	20	-	25	-	30	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	10	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	10	17	-	21	-	26	ns
t _t	transition time	see <u>Fig. 6</u> [2]								
		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	per package; [3] $V_I = GND$ to V_{CC}	-	30	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT1	53						1		-	
t _{PHL}	HIGH to LOW propagation	1In to nY, 2In to nY; [1] see Fig. 6								
	delay	V _{CC} = 4.5 V	-	19	34	-	43	-	51	ns
	V _{CC} = 5.0 V; C _L = 15 pF	-	16	-	-	-	-	-	ns	
t _{PLH} LOW to HIGH propagation		1In to nY, 2In to nY; [1] see Fig. 6								
delay	V _{CC} = 4.5 V	-	13	24	-	30	-	36	ns	
		V _{CC} = 5.0 V; C _L = 15 pF	-	16	-	-	-	-	-	ns
t _{pd}	propagation	Sn to nY; see Fig. 7 [1]								
	delay	V _{CC} = 4.5 V	-	20	34	-	43	-	51	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	17	-	-	-	-	-	ns
		nE to nY; see Fig. 7 [1]								
		V _{CC} = 4.5 V	-	14	27	-	34	-	41	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	11	-	-	-	-	-	ns
t _t	transition time	see <u>Fig. 6</u> [2]								
		V _{CC} = 4.5 V	-	7	15	-	19	-	22	ns
C_{PD}	power dissipation capacitance	per package; [3] V _I = GND to V _{CC} - 1.5 V	-	30	-	-	-	-	-	pF

- t_{pd} is the same as t_{PHL} and t_{PLH}.
- 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):

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

f_i = input frequency in MHz;

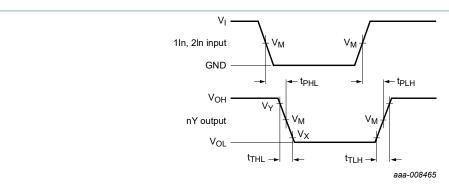
f_o = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

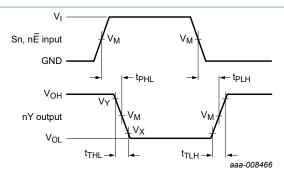
 $\sum (C_L \times V_{CC}^2 \times f_o) = \text{sum of outputs.}$



Measurement points are given in <u>Table 8</u>.

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

Waveforms showing the input (1In, 2In) to output (1Y, 2Y) propagation delays and output transition times Fig. 6.



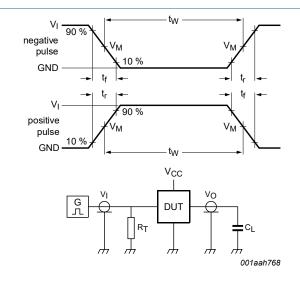
Measurement points are given in Table 8.

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

Waveforms showing the input (Sn, nE) to output (nY) propagation delays Fig. 7.

Table 8. Measurement points

Туре	Input	Output					
	V _M	V _M	V _X	V _Y			
74HC153	0.5V _{CC}	0.5V _{CC}	0.1V _{CC}	0.9V _{CC}			
74HCT153	1.3 V	1.3 V	0.1V _{CC}	0.9V _{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.

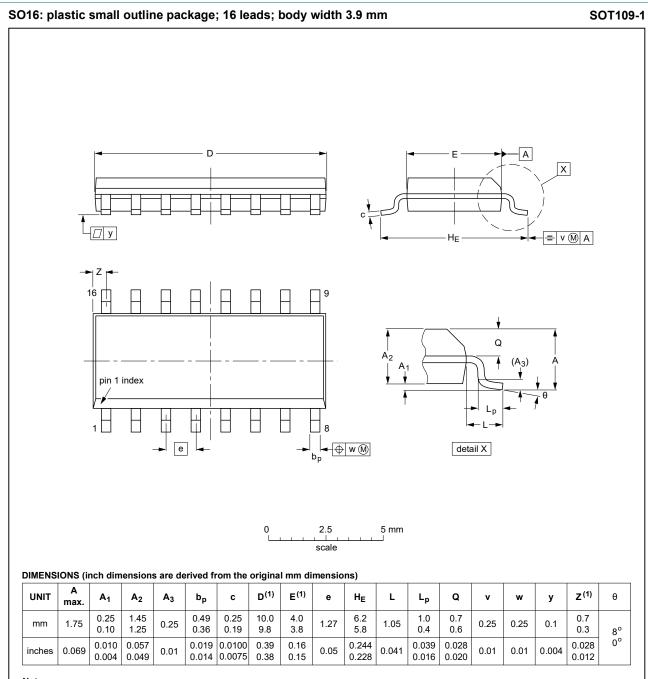
 C_L = load capacitance including jig and probe capacitance.

Test circuit for measuring switching times Fig. 8.

Table 9. Test data

Туре	Input L		Load	Test
	VI	t _r , t _f	CL	
74HC153	V _{CC}	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}
74HCT153	3.0 V	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}

11. Package outline



Note

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	ISSUE DATE	
SOT109-1	076E07	MS-012				99-12-27 03-02-19	

Fig. 9. Package outline SOT109-1 (SO16)

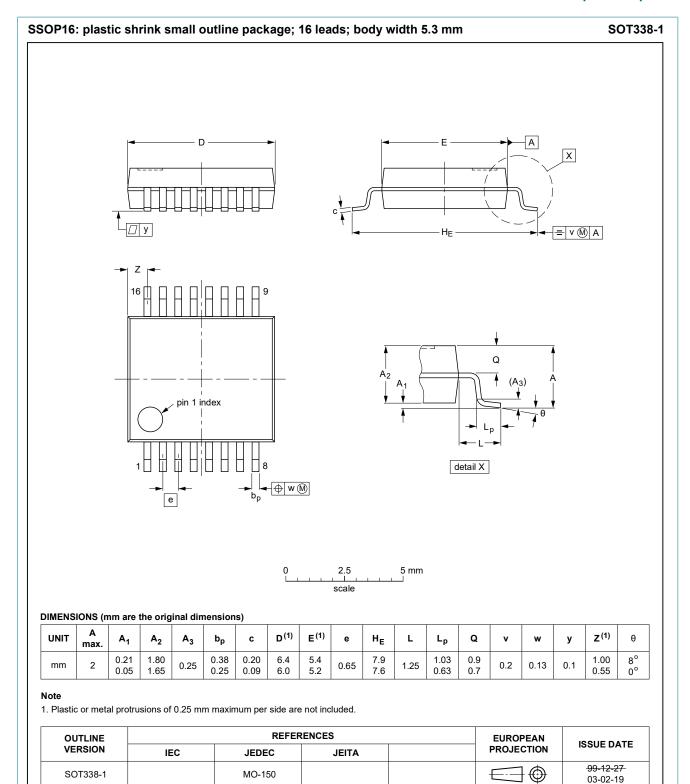
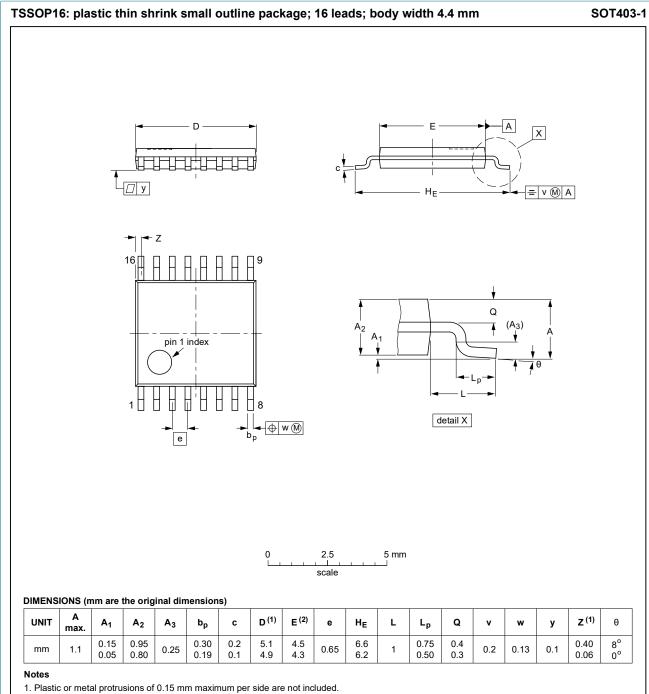


Fig. 10. Package outline SOT338-1 (SSOP16)



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. 11. Package outline SOT403-1 (TSSOP16)

12. Abbreviations

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

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74HC_HCT153 v.8	20190813	Product data sheet	-	74HC_HCT153 v.7	
Modifications:	 Type numbers 74HC153DB and 74HCT153DB (SOT338-1/SSOP16) added. Table 4: Derating values for P_{tot} total power dissipation updated. 				
74HC_HCT153 v.7	20181010	Product data sheet	-	74HC_HCT153 v.6	
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. Type numbers 74HC153DB and 74HCT153DB (SOT338-1/SSOP16) removed. 				
74HC HCT153 v.6	20160511	Product data sheet	_	74HC HCT153 v.5	
Modifications:	Type numbers 74HC153N and 74HCT153N (SOT38-4) removed.				
74HC_HCT153 v.5	20140123	Product data sheet	-	74HC_HCT153 v.4	
Modifications:	<u>Table 1</u> and <u>Section 11</u> : all references to 14 pin packages removed.				
74HC_HCT153 v.4	20131128	Product data sheet	-	74HC_HCT153 v.3	
74HC_HCT153 v.3	20130722	Product data sheet	-	74HC_HCT153_CNV v.2	
74HC_HCT153_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.

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- [2] The term 'short data sheet' is explained in section "Definitions".
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