# 74HC251-Q100; 74HCT251-Q100

8-input multiplexer; 3-state
Rev. 1 — 12 August 2013

**Product data sheet** 

#### **General description** 1.

The 74HC251-Q100; 74HCT251-Q100 is an 8-bit multiplexer with eight binary inputs (I0 to I7), three select inputs (S0 to S2) and an output enable input (OE). The select inputs select one of the eight binary inputs and route it to the complementary outputs (Y and Y). A HIGH on OE causes the outputs to assume a high-impedance OFF-state. Inputs include clamp diodes that enable the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

#### **Features and benefits** 2.

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
  - ◆ Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Input levels:
  - ◆ For 74HC251-Q100: CMOS level
  - For 74HCT251-Q100: TTL level
- Low-power dissipation
- Non-inverting data path
- Specified in compliance with JEDEC standard no. 7A
- 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

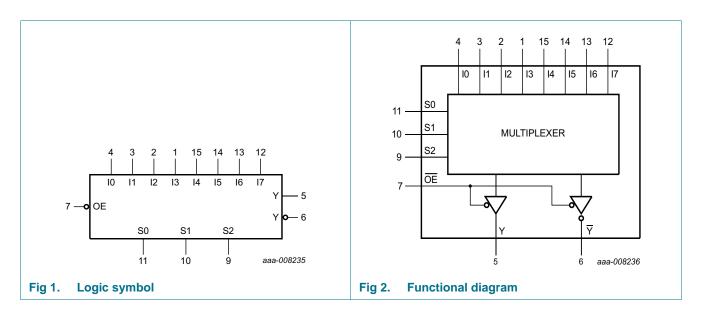
#### **Ordering information** 3.

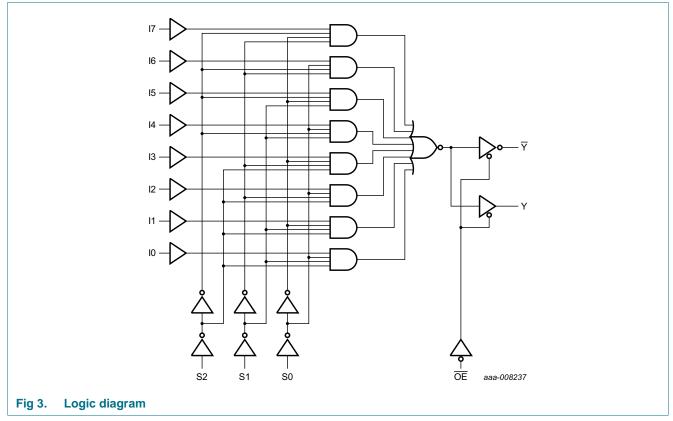
Table 1. **Ordering information** 

Type number	Package											
	Temperature range	Name	Description	Version								
74HC251D-Q100	–40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width	SOT109-1								
74HCT251D-Q100			3.9 mm									
74HC251PW-Q100	–40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads;	SOT403-1								
74HCT251PW-Q100			body width 4.4 mm									



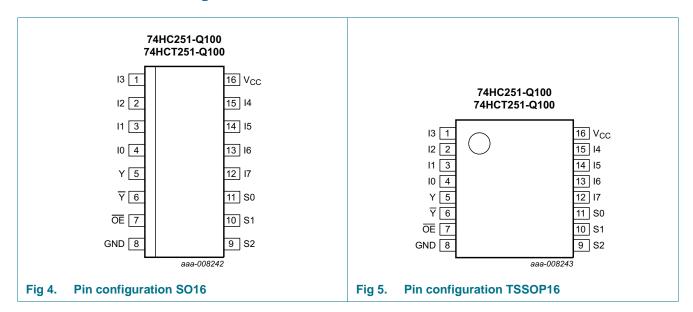
# 4. Functional diagram





## 5. Pinning information

#### 5.1 Pinning



### 5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
10 to 17	4, 3, 2, 1, 15, 14, 13, 12	data inputs
Υ	5	multiplexer output
Y	6	complementary multiplexer output
ŌĒ	7	output enable input (active LOW)
GND	8	ground (0 V)
S0, S1, S2	11, 10, 9	common data select inputs
V <sub>CC</sub>	16	supply voltage

# 6. Functional description

Table 3. Function table[1]

Input												Outp	ut
OE	S2	S1	S0	10	l1	12	13	14	15	16	17	Y	Υ
Н	X	X	X	Χ	X	X	X	X	X	Χ	X	Z	Z
L	L	L	L	L	Х	X	X	Х	Х	Χ	Х	Н	L
L	L	L	L	Н	Х	Х	Х	Х	Х	Χ	Х	L	Н
L	L	L	Н	X	L	X	Χ	Х	Χ	X	Χ	Н	L
L	L	L	Н	X	Н	X	Χ	Х	Χ	X	Χ	L	Н
L	L	Н	L	Χ	Χ	L	Χ	Χ	Χ	Χ	Χ	Н	L
L	L	Н	L	X	Χ	Н	Χ	Χ	Χ	X	Χ	L	Н
L	L	Н	Н	X	Χ	X	L	Χ	Χ	X	Χ	Н	L
L	L	Н	Н	X	Χ	X	Н	Χ	Χ	X	Χ	L	Н
L	Н	L	L	X	Χ	X	Χ	L	Χ	X	Χ	Н	L
L	Н	L	L	X	Χ	X	Χ	Н	Χ	X	Χ	L	Н
L	Н	L	Н	X	Χ	X	Χ	Χ	L	X	Χ	Н	L
L	Н	L	Н	X	Χ	X	Χ	Χ	Н	X	Χ	L	Н
L	Н	Н	L	Χ	Χ	Χ	Χ	Χ	Χ	L	Χ	Н	L
L	Н	Н	L	Χ	Χ	Χ	Χ	Χ	Χ	Н	Χ	L	Н
L	Н	Н	Н	Χ	Х	Χ	Χ	X	Χ	Χ	L	Н	L
L	Н	Н	Н	X	Χ	Х	Х	Х	Χ	Х	Н	L	Н

<sup>[1]</sup> H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state.

### 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 <sub>IK</sub>	input clamping current	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$	-	±20	mA
Io	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-	±25	mA
I <sub>CC</sub>	supply current		-	+50	mA
I <sub>GND</sub>	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$	<u>[1][1]</u> _	500	mW

<sup>[1]</sup> For SO16 package:  $P_{tot}$  derates linearly with 8 mW/K above 70 °C.

### 8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74H	IC251-Q	100	74H	2100	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 <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{CC} = 2.0 \text{ V}$	-	-	625	-	-	-	ns/V
	•	$V_{CC} = 4.5 \text{ V}$	-	1.67	139	-	1.67	139	ns/V
		$V_{CC} = 6.0 \text{ V}$	-	-	83	-	-	-	ns/V

<sup>[2]</sup> For TSSOP16 package: Ptot derates linearly with 5.5 mW/K above 60 °C.

### 9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	Ta	<sub>mb</sub> = 25	°C		40 °C to 5 °C		-40 °C to 5 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC25	1-Q100		•	'					'	
$V_{IH}$	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		$V_{CC} = 6.0 \text{ V}$	4.2	3.2	-	4.2	-	4.2	-	V
$V_{IL}$	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		$V_{CC} = 6.0 \text{ V}$	-	2.8	1.8	-	1.8	-	1.8	V
$V_{OH}$	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_{O} = -20 \mu A; V_{CC} = 2.0 V$	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	$V_I = V_{IH}$ 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
l <sub>l</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
l <sub>oz</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.5	-	±5.0	-	±10.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	8.0	-	80	-	160	μА
Cı	input capacitance		-	3.5	-					pF

 Table 6.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions	Tai	<sub>mb</sub> = 25	°C	T <sub>amb</sub> = -	40 °C to 5 °C		-40 °C to 5 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
<b>74HCT2</b>	51-Q100									
$V_{IH}$	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	1.6	-	2.0	-	2.0	-	V
$V_{IL}$	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	1.2	8.0	-	8.0	-	8.0	V
$V_{OH}$	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_{O} = -20 \mu A$	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	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
output voltage	I <sub>O</sub> = 20 μA	-	0	0.1	-	0.1	-	0.1	V	
	$I_{O} = 4.0 \text{ mA}$	-	0.15	0.26	-	0.33	-	0.4	V	
I <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 5.5$ V; $V_O = V_{CC}$ or GND per input pin; other inputs at $V_{CC}$ or GND; $I_O = 0$ A	-	-	±0.5	-	±5.0	-	±10	μА
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	8.0	-	80	-	160	μА
Δl <sub>CC</sub>	additional supply current	$\begin{split} V_I &= V_{CC} - 2.1 \text{ V;} \\ \text{other inputs at } V_{CC} \text{ or GND;} \\ V_{CC} &= 4.5 \text{ V to 5.5 V;} \\ I_O &= 0 \text{ A} \end{split}$								
		per input pin; In inputs	-	100	360	-	450	-	490	μΑ
		per input pin; OE input	-	150	540	-	675	-	735	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 <u>Figure 9</u>.

Symbol	Parameter	Conditions		T <sub>an</sub>	<sub>nb</sub> = 25	°C		= −40 °C 85 °C	T <sub>amb</sub> = to +1	Unit	
				Min	Тур	Max	Min	Max	Min	Max	
74HC25	1-Q100			ı				I			
t <sub>pd</sub>	propagation	In to Y; see Figure 6	<u>[1]</u>								
	delay	V <sub>CC</sub> = 2.0 V		-	50	170	-	215	-	255	ns
		$V_{CC} = 4.5 \text{ V}$		-	18	34	-	43	-	51	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	15	-	-	-	-	-	ns
		$V_{CC} = 6.0 \text{ V}$		-	14	29	-	37	-	43	ns
		In to $\overline{Y}$ ; see Figure 6	<u>[1]</u>								
		$V_{CC} = 2.0 \text{ V}$		-	55	175	-	220	-	265	ns
		$V_{CC} = 4.5 \text{ V}$		-	20	35	-	44	-	53	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	17	-	-	-	-	-	ns
		$V_{CC} = 6.0 \text{ V}$		-	16	30	-	37	-	45	ns
		Sn to Y; see Figure 7	<u>[1]</u>								
		V <sub>CC</sub> = 2.0 V		-	66	205	-	255	-	310	ns
		V <sub>CC</sub> = 4.5 V		-	24	41	-	51	-	62	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	20	-	-	-	-	-	ns
		$V_{CC} = 6.0 \text{ V}$		-	19	35	-	43	-	53	ns
		Sn to $\overline{Y}$ ; see Figure 7	<u>[1]</u>								
		$V_{CC} = 2.0 \text{ V}$		-	69	205	-	255	-	310	ns
		V <sub>CC</sub> = 4.5 V		-	25	41	-	51	-	62	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	21	-	-	-	-	-	ns
		$V_{CC} = 6.0 \text{ V}$		-	20	35	-	43	-	53	ns
t <sub>en</sub>	enable time	$\overline{OE}$ to Y, $\overline{Y}$ ; see Figure 7	[2]								
		$V_{CC} = 2.0 \text{ V}$		-	36	140	-	175	-	210	ns
		V <sub>CC</sub> = 4.5 V		-	13	28	-	35	-	42	ns
		$V_{CC} = 6.0 \text{ V}$		-	10	24	-	30	-	36	ns
t <sub>dis</sub>	disable time	$\overline{OE}$ to Y, $\overline{Y}$ ; see Figure 7	[3]								
		$V_{CC} = 2.0 \text{ V}$		-	39	140	-	170	-	210	ns
		V <sub>CC</sub> = 4.5 V		-	14	28	-	35	-	42	ns
		$V_{CC} = 6.0 \text{ V}$		-	11	24	-	30	-	36	ns
t <sub>t</sub>	transition	Y, <del>Y</del> ; see <u>Figure 6</u>	[4]								
	time	V <sub>CC</sub> = 2.0 V		-	19	75	-	95	-	110	ns
		V <sub>CC</sub> = 4.5 V		-	7	15	-	19	-	22	ns
		V <sub>CC</sub> = 6.0 V		-	6	13	-	16	-	19	ns
C <sub>PD</sub>	power dissipation capacitance	$C_L = 50 \text{ pF}; f = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	<u>[5]</u>	-	44	-	-	-	-	-	pF

74HC\_HCT251\_Q100

 Table 7.
 Dynamic characteristics ...continued

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		T <sub>an</sub>	<sub>nb</sub> = 25	°C		= –40 °C 85 °C		–40 °C 25 °C	Unit
				Min	Тур	Max	Min	Max	Min	Max	
<b>74HCT2</b>	51-Q100										
$t_{pd}$	propagation	In to Y; see Figure 6	[1]								
	delay	$V_{CC} = 4.5 \text{ V}$		-	22	35	-	44	-	53	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	19	-	-	-	-	-	ns
		In to $\overline{Y}$ ; see Figure 6	[1]								
		$V_{CC} = 4.5 \text{ V}$		-	22	35	-	44	-	53	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	19	-	-	-	-	-	ns
		Sn to Y; see Figure 7	[1]								
		$V_{CC} = 4.5 \text{ V}$		-	24	44	-	55	-	66	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	20	-	-	-	-	-	ns
		Sn to $\overline{Y}$ ; see Figure 7	[1]								
		V <sub>CC</sub> = 4.5 V		-	25	44	-	55	-	66	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	21	-	-	-	-	-	ns
t <sub>en</sub>	enable time	$\overline{OE}$ to Y, $\overline{Y}$ ; see Figure 7	[2]								
		$V_{CC} = 4.5 \text{ V}$		-	13	28	-	35	-	42	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	13	-	-	-	-	-	ns
t <sub>dis</sub>	disable time	$\overline{OE}$ to Y, $\overline{Y}$ ; see Figure 7	[3]								
		V <sub>CC</sub> = 4.5 V		-	14	28	-	35	-	42	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	18	-	-	-	-	-	ns
t <sub>t</sub>	transition	Y, Y; see Figure 6	[4]								
	time	V <sub>CC</sub> = 4.5 V		-	7	15	-	19	-	22	ns
C <sub>PD</sub>	power dissipation capacitance	$C_L = 50 \text{ pF}$ ; f = 1 MHz; $V_I = \text{GND to } V_{CC}$	<u>[5]</u>	-	46	-	-	-	-	-	pF

<sup>[1]</sup>  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .

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

 $f_i$  = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

 $V_{CC}$  = supply voltage in V;

N = number of inputs switching;

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

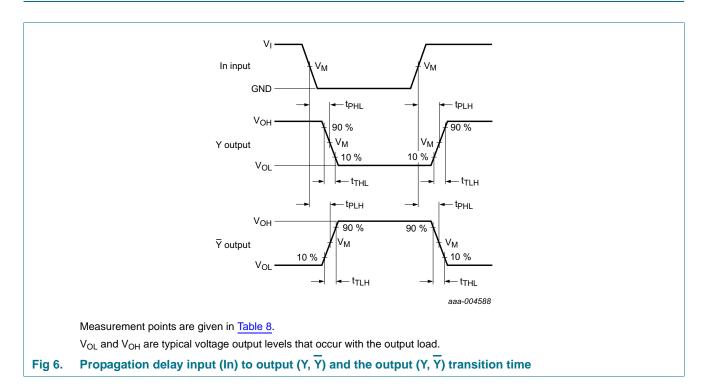
<sup>[2]</sup>  $t_{en}$  is the same as  $t_{PZH}$  and  $t_{PZL}$ .

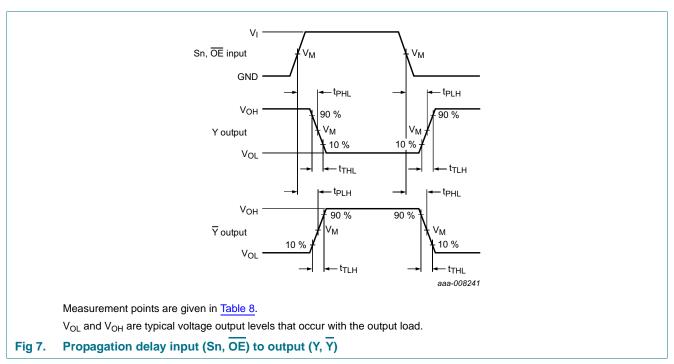
<sup>[3]</sup>  $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ .

<sup>[4]</sup>  $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ .

<sup>[5]</sup>  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

### 11. Waveforms





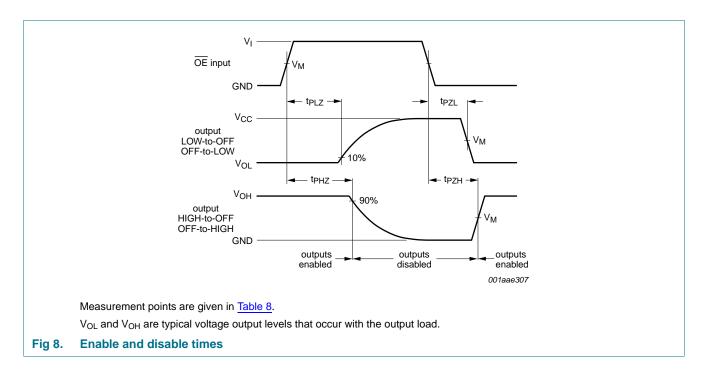
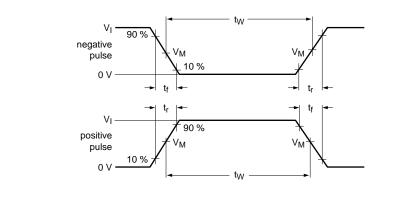
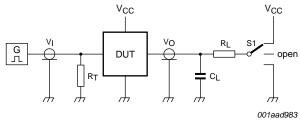


Table 8. Measurement points

Туре	Input	Output
	V <sub>M</sub>	V <sub>M</sub>
74HC251-Q100	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>
74HCT251-Q100	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<sub>L</sub> = Load resistance.

S1 = Test selection switch.

Fig 9. Test circuit for measuring switching times

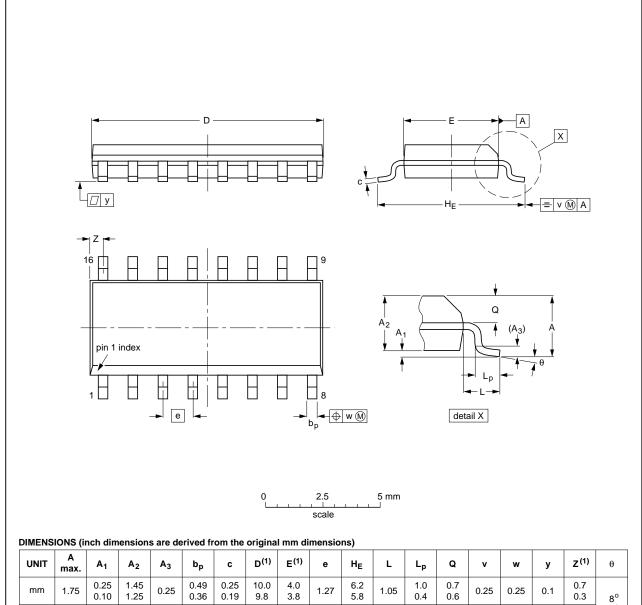
Table 9. Test data

Туре	Input		Load		S1 position				
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	$R_L$	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>		
74HC251-Q100	$V_{CC}$	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>		
74HCT251-Q100	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>		

### 12. Package outline

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

SOT109-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(1)</sup>	е	HE	L	Lp	ø	v	w	у	Z <sup>(1)</sup>	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		0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016		0.01	0.01	0.004	0.028 0.012	0°

#### Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

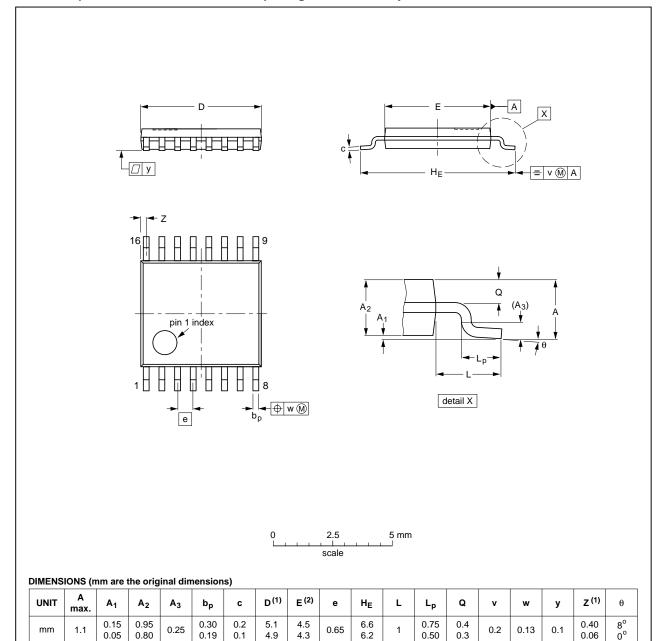
OUTLINE	REFERENCES				EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT109-1	076E07	MS-012				<del>99-12-27</del> 03-02-19

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



# 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	REFERENCES				EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT403-1		MO-153				<del>99-12-27</del> 03-02-18

Fig 11. Package outline SOT403-1 (TSSOP16)

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### 13. 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
MIL	Military

# 14. Revision history

#### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT251_Q100 v.1	20130812	Product data sheet	-	-

### 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.nexperia.com.

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# 74HC251-Q100; 74HCT251-Q100

### **Nexperia**

8-input multiplexer; 3-state

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