74HC257-Q100; 74HCT257-Q100

Quad 2-input multiplexer; 3-state

Rev. 1 — 27 July 2015

Product data sheet

1. **General description**

The 74HC257-Q100; 74HCT257-Q100 is a quad 2-input multiplexer with 3-state outputs. Inputs include clamp diodes. It 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
- Non-inverting data path
- 3-state outputs interface directly with system bus
- Complies with JEDEC standard no. 7A
- Input levels:
 - ◆ For 74HC257: CMOS level
 - ◆ For 74HCT257: TTL level
- 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)
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

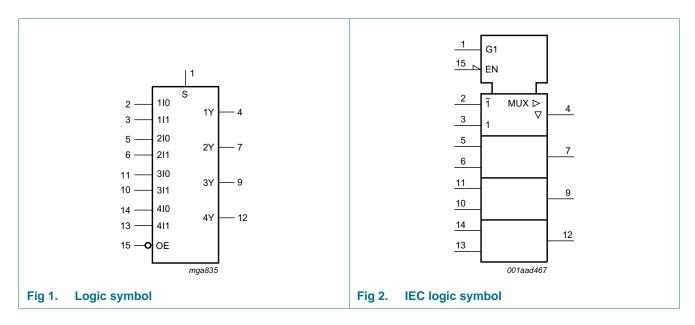
Ordering information

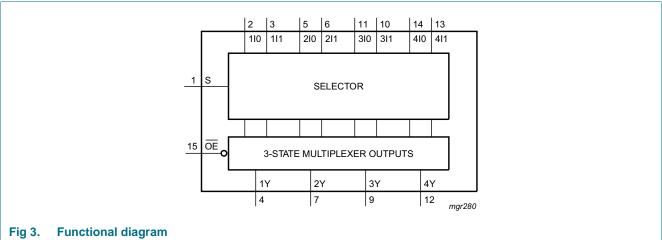
Table 1. **Ordering information**

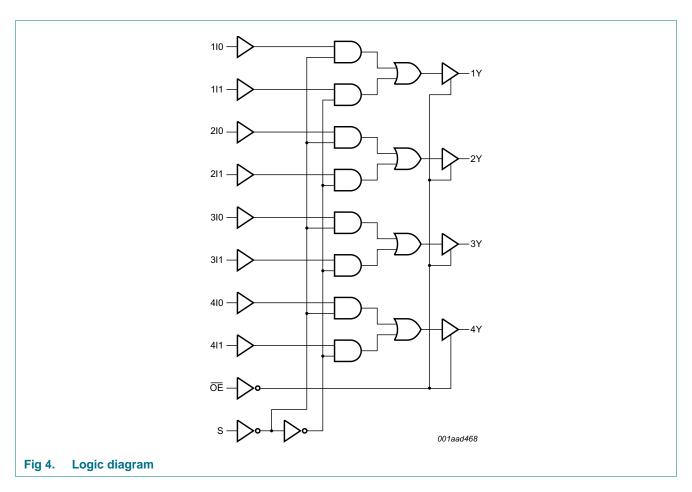
Type number	Package								
	Temperature range	Name	Description	Version					
74HC257D-Q100	–40 °C to +125 °C	SO16	plastic small outline package; 16 leads;	SOT109-1					
74HCT257D-Q100			body width 3.9 mm						
74HC257PW-Q100	–40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads;	SOT403-1					
74HCT257PW-Q100			body width 4.4 mm						



4. Functional diagram

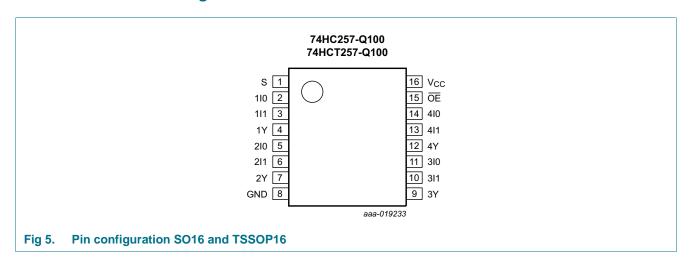






5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
S	1	common data select input
110 to 410	2, 5, 11, 14	data input from source 0
1I1 to 4I1	3, 6, 10, 13	data input from source 1
1Y to 4Y	4, 7, 9, 12	3-state multiplexer output
GND	8	ground (0 V)
ŌĒ	15	3-state output enable input (active LOW)
V _{CC}	16	supply voltage

6. Functional description

6.1 Function table

Table 3. Function table[1]

		Input		Output
OE	S	nI0	nl1	nY
Н	X	X	X	Z
L	Н	X	L	L
L	Н	X	Н	Н
L	L	L	X	L
L	L	Н	X	Н

^[1] 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 _{IK}	input clamping current	$V_1 < -0.5 \text{ V or } V_1 > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
I _{OK}	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
Io	output current	$V_{O} = -0.5 \text{ V to } V_{CC} + 0.5 \text{ V}$	-	±35	mA
I _{CC}	supply current		-	+70	mA
I _{GND}	ground current		-70	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	SO16 package [2]	-	500	mW
		TSSOP16 package	-	500	mW

- [1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
- [2] For SO16 packages: above 70 °C, Ptot derates linearly with 8 mW/K.
- [3] For TSSOP16 packages: above 60 °C, P_{tot} derates linearly with 5.5 mW/K.

74HC_HCT257_Q100

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
74HC257-Q	100			-		
V _{CC}	supply voltage		2.0	5.0	6.0	V
V _I	input voltage		0	-	V_{CC}	V
Vo	output voltage		0	-	V_{CC}	V
Δt/ΔV	input transition rise and fall	V _{CC} = 2.0 V	-	-	625	ns
	rates	V _{CC} = 4.5 V	-	1.67	139	ns
		V _{CC} = 6.0 V	-	-	83	ns
T _{amb}	ambient temperature		-40	-	+125	°C
74HCT257-	Q100		"			
V _{CC}	supply voltage		4.5	5.0	5.5	V
VI	input voltage		0	-	V_{CC}	V
Vo	output voltage		0	-	V_{CC}	V
Δt/ΔV	input transition rise and fall rates	V _{CC} = 4.5 V	-	1.67	139	ns
T _{amb}	ambient temperature		-40	-	+125	°C

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 +85 °C		–40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC25	7-Q100									
	HIGH-level input voltage	V _{CC} = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
		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-I	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	$I_{O} = -20 \mu A; V_{CC} = 2.0 V$	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
		$I_{O} = -6.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.98	4.32	-	3.84	-	3.7	-	V
		$I_{O} = -7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.48	5.81	-	5.34	-	5.2	-	V

 Table 6.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions		25 °C		_	°C to 5 °C		°C to 5 °C	Unit	
			Min	Тур	Max	Min	Max	Min	Max		
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}	l								
	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	
		$I_O = 20 \mu A; V_{CC} = 6.0 \text{ V}$	-	0	0.1	-	0.1	-	0.1	V	
		$I_O = 6.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	٧	
		$I_O = 7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	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	μΑ	
l _{OZ}	OFF-state output current	$\begin{aligned} &V_{I} = V_{IH} \text{ or } V_{IL};\\ &V_{O} = V_{CC} \text{ or GND};\\ &V_{CC} = 6.0 \text{ V} \end{aligned}$	-	-	±0.5	-	±5.0	-	±10.0	μА	
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	
Ci	input capacitance		-	3.5	-	-	-	-	-	pF	
74HCT2	57-Q100										
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V		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	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 = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V	
		$I_O = -6 \text{ mA}$	3.98	4.32	-	3.84	-	3.7	-	٧	
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$		1			1				
	output voltage	I _O = 20 μA	-	0	0.1	-	0.33	-	0.4	٧	
		I _O = 6.0 mA	-	0.15	0.26	-	0.33	-	0.4	٧	
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ	
I _{OZ}	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 _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	8.0	-	80	-	160	μΑ	
Δl _{CC}	additional supply	$V_I = V_{CC} - 2.1 \text{ V}$; other inputs at \	CC or GN	ID; V _C	= 4.5	V to 5.	5 V; I _O	= 0 A	1	1	
	current	per input pin; nI0, nI1 inputs	-	40	144	-	180	-	196	μΑ	
		per input pin; OE input	-	135	486	-	608	-	662	μΑ	
		per input pin; S input	-	70	252	-	315	-	343	μΑ	
Cı	input capacitance		-	3.5	-	-	-	-	-	pF	

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); For test circuit, see Figure 8.

Symbol	Parameter	Conditions		25	°C	–40 °C to +85 °C	-40 °C to +125 °C	Unit
				Тур	Max	Max	Max	
74HC257	7-Q100					-		
t _{pd}	propagation	nl0 to nY or nl1 to nY; see Figure 6	<u>[1]</u>					
	delay	V _{CC} = 2.0 V		36	110	140	165	ns
		V _{CC} = 4.5 V		13	22	28	33	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		11	-	-	-	ns
		V _{CC} = 6.0 V		10	19	24	28	ns
		S to nY; see Figure 6						
		V _{CC} = 2.0 V		47	150	190	225	ns
		V _{CC} = 4.5 V		17	30	38	45	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		14	-	-	-	ns
		V _{CC} = 6.0 V		14	26	33	38	ns
t _{en}	enable time	OE to nY; see Figure 7	[2]					
		V _{CC} = 2.0 V		33	150	190	225	ns
		V _{CC} = 4.5 V		12	30	38	45	ns
		V _{CC} = 6.0 V		10	26	33	38	ns
t _{dis} di	disable time	OE to nY; see Figure 7	[3]					
		V _{CC} = 2.0 V		41	150	190	225	ns
		V _{CC} = 4.5 V		15	30	38	45	ns
		V _{CC} = 6.0 V		12	26	33	38	ns
t _t	transition time	see Figure 6	[4]			1	1	
		V _{CC} = 2.0 V		14	60	75	90	ns
		V _{CC} = 4.5 V		5	12	15	18	ns
		V _{CC} = 6.0 V		4	10	13	15	ns
C _{PD}	power dissipation capacitance	per multiplexer; $V_I = GND$ to V_{CC}	<u>[5]</u>	45	-	-	-	pF
74HCT2	57-Q100				I			-
t _{pd}	propagation	nl0 to nY or nl1 to nY; see Figure 6	[1]					
	delay	V _{CC} = 4.5 V		16	30	38	45	ns
		V _{CC} = 5.0 V; C _L = 15 pF		13	-	-	-	ns
		S to nY; see Figure 6						
		V _{CC} = 4.5 V		20	35	44	53	ns
		V _{CC} = 5.0 V; C _L = 15 pF		17	-	-	-	ns
t _{en}	enable time	\overline{OE} to nY; $V_{CC} = 4.5$ V; see Figure 7	[2]	15	30	38	45	ns
t _{dis}	disable time	$\overline{\text{OE}}$ to nY; $V_{\text{CC}} = 4.5 \text{ V}$; see Figure 7	[3]	16	30	38	45	ns
t _t	transition time	V _{CC} = 4.5 V; see Figure 6	[4]	5	12	15	18	ns

74HC_HCT257_Q100

Table 7. Dynamic characteristics ... continued

Voltages are referenced to GND (ground = 0 V); For test circuit, see Figure 8.

Symbol	Parameter	Conditions	25 °C		–40 °C to +85 °C	–40 °C to +125 °C	Unit
			Тур	Max	Max	Max	
C_{PD}	power dissipation capacitance	per multiplexer; $V_I = GND$ to $V_{CC} - 1.5 V$ [5]	45	-	-	-	pF

- [1] t_{pd} is the same as t_{PHL} , t_{PLH} .
- [2] t_{en} is the same as t_{PZH} , t_{PZL} .
- [3] t_{dis} is the same as t_{PHZ} , t_{PLZ} .
- [4] t_t is the same as t_{THL} , t_{TLH} .
- [5] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

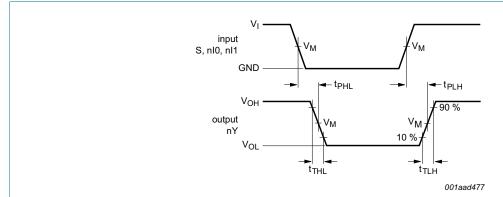
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11. Waveforms



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 delays input (S, nI0, nI1) to output (nY) and output (nY) transition times

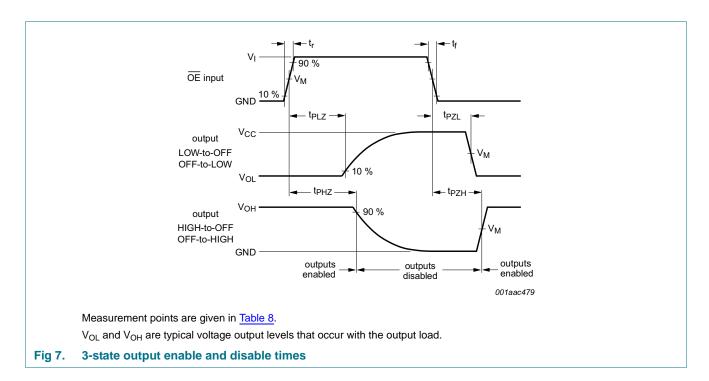
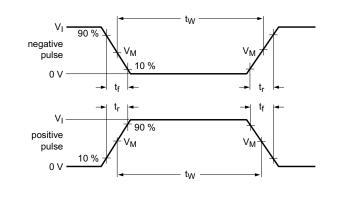
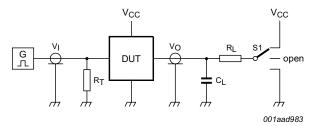


Table 8. Measurement points

Туре	Input	Output	
	V _M	V _M	
74HC257-Q100	0.5V _{CC}	0.5V _{CC}	
74HCT257-Q100	1.3 V	1.3 V	





Measurement points are given in Table 8 and 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 resistor.

Fig 8. Test circuit for measuring switching times

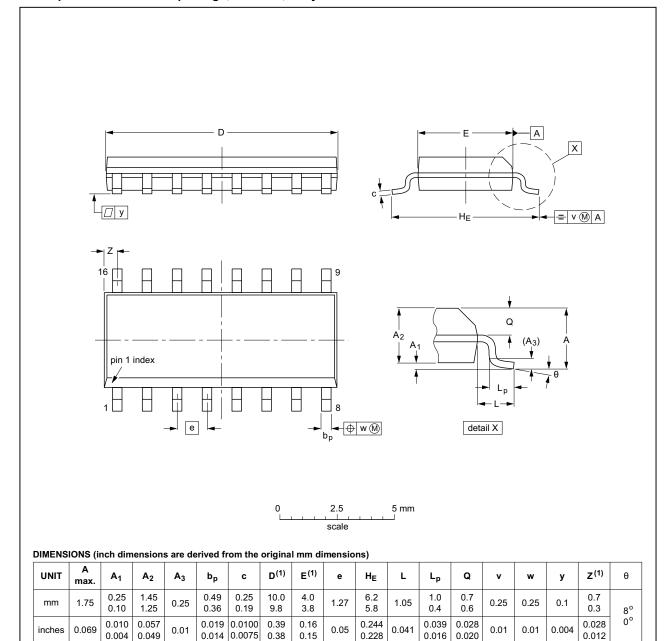
Table 9. Test data

Туре	Input		Load		Switch position		
	VI	t _r , t _f	C _L	R _L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
74HC257-Q100	V _{CC}	6 ns	50 pF	1 kΩ	open	GND	V _{CC}
74HCT257-Q100	3 V	6 ns	50 pF	1 kΩ	open	GND	V _{CC}

12. Package outline

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

SOT109-1



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	1920E DATE	
SOT109-1	076E07	MS-012				99-12-27 03-02-19	

Fig 9. Package outline SOT109-1 (SO16)

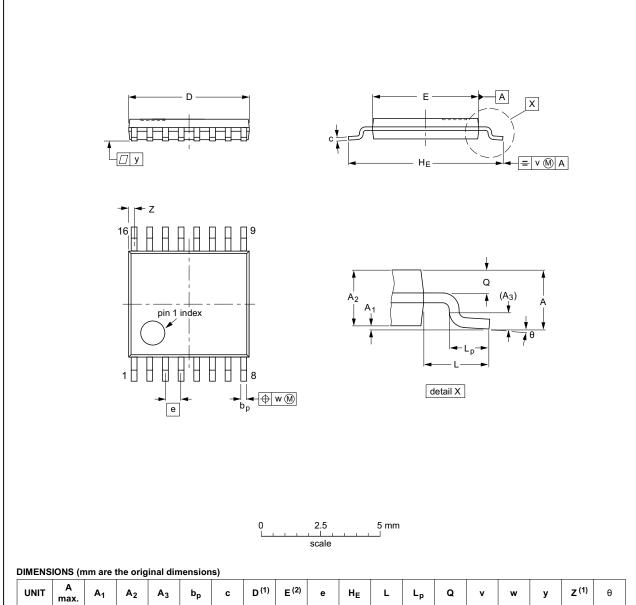
74HC_HCT257_Q100

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

SOT403-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E (2)	е	HE	L	Lp	Q	٧	w	у	Z ⁽¹⁾	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.

			REFERENCES					
IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE			
	MO-153				99-12-27 03-02-18			
	IEC							

Fig 10. Package outline SOT403-1 (TSSOP16)

74HC_HCT257_Q100

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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				
TTL	Transistor-Transistor Logic				
MIL	Military				

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT257_Q100 v.1	20150727	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"
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74HC257-Q100; 74HCT257-Q100

Nexperia

Quad 2-input multiplexer; 3-state

17. Contents

1	General description 1
2	Features and benefits
3	Ordering information
4	Functional diagram 2
5	Pinning information 3
5.1	Pinning
5.2	Pin description 4
6	Functional description 4
6.1	Function table 4
7	Limiting values 4
8	Recommended operating conditions 5
9	Static characteristics 5
10	Dynamic characteristics
11	Waveforms
12	Package outline
13	Abbreviations
14	Revision history
15	Legal information14
15.1	Data sheet status
15.2	Definitions
15.3	Disclaimers
15.4	Trademarks15
16	Contact information
17	Contents

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