74HC259-Q100; 74HCT259-Q100

8-bit addressable latch

Rev. 2 — 2 September 2020

Product data sheet

1. General description

The 74HC259-Q100; 74HCT259-Q100 is an 8-bit addressable latch. The device features four modes of operation. In the addressable latch mode, data on the D input is written into the latch addressed by the inputs A0 to A3. The addressed latch will follow the data input, non-addressed latches will retain their previous states. In memory mode, all latches retain their previous states and are unaffected by the data or address inputs. In the 3-to-8 decoding or demultiplexing mode, the addressed output follows the D input and all other outputs are LOW. In the reset mode, all outputs are forced LOW and unaffected by the data or address inputs. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of $V_{\rm CC}$.

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
- Wide supply voltage range from 2.0 V to 6.0 V
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards:
 - JESD8C (2.7 V to 3.6 V)
 - JESD7A (2.0 V to 6.0 V)
- Combined demultiplexer and 8-bit latch
- · Serial-to-parallel capability
- Output from each storage bit available
- · Random (addressable) data entry
- · Easily expandable
- Common reset input
- · Useful as a 3-to-8 active HIGH decoder
- Input levels:
 - For 74HC259-Q100: CMOS level
 - For 74HCT259-Q100: 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)
- Multiple package options
- DHVQFN package with Side-Wettable Flanks enabling Automatic Optical Inspection (AOI) of solder joints

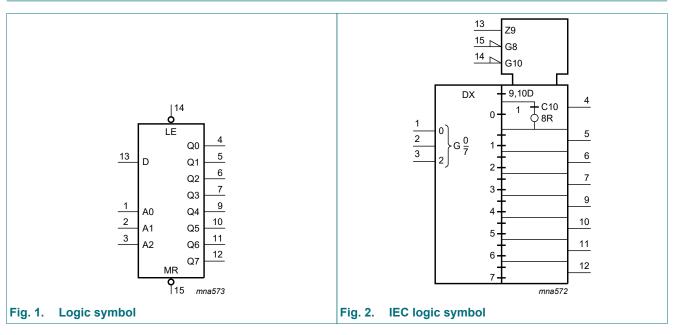


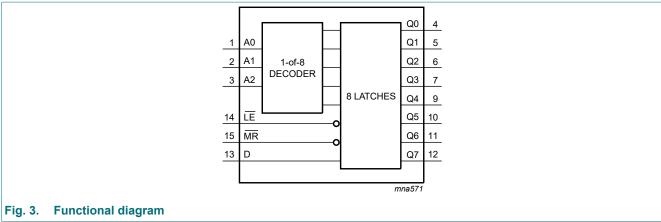
3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74HC259D-Q100	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads;	SOT109-1
74HCT259D-Q100			body width 3.9 mm	
74HC259PW-Q100	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package;	SOT403-1
74HCT259PW-Q100			16 leads; body width 4.4 mm	
74HC259BQ-Q100	-40 °C to +125 °C	DHVQFN16	plastic dual in-line compatible thermal	SOT763-1
74HCT259BQ-Q100			enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 × 3.5 × 0.85 mm	

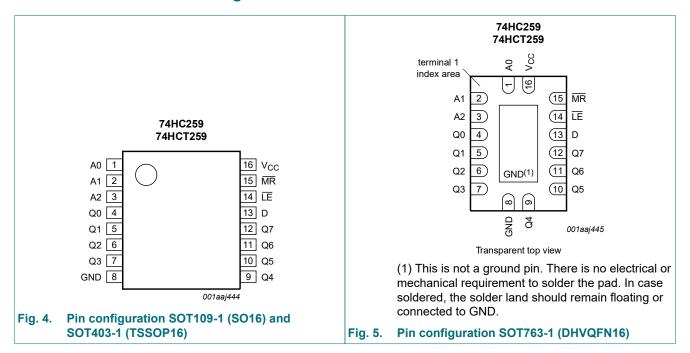
4. Functional diagram





5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
A0, A1, A2	1, 2, 3	address input
Q0, Q1, Q2, Q3, Q4, Q5, Q6, Q7	4, 5, 6, 7, 9, 10, 11, 12	latch output
GND	8	ground (0 V)
D	13	data input
LE	14	latch enable input (active LOW)
MR	15	conditional reset input (active LOW)
V _{CC}	16	supply voltage

6. Functional description

Table 3. Function table

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

 $d = HIGH \text{ or } LOW \text{ data one set-up time prior to the } LOW-to-HIGH \overline{LE} \text{ transition};$

q = lower case letter indicates the state of the referenced input one set-up time prior to the LOW-to-HIGH transition.

Operating mode	Input	:					Outpu	t						
	MR	LE	D	A0	A1	A2	Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7
Reset (clear)	L	Н	Х	Х	Х	Х	L	L	L	L	L	L	L	L
Demultiplexer	L	L	d	L	L	L	Q = d	L	L	L	L	L	L	L
(active HIGH 8-channel) decoder (when D = H)	L	L	d	Н	L	L	L	Q = d	L	L	L	L	L	L
decoder (when b = 11)	L	L	d	L	Н	L	L	L	Q = d	L	L	L	L	L
	L	L	d	Н	Н	L	L	L	L	Q = d	L	L	L	L
	L	L	d	L	L	Н	L	L	L	L	Q = d	L	L	L
	L	L	d	Н	L	Н	L	L	L	L	L	Q = d	L	L
	L	L	d	L	Н	Н	L	L	L	L	L	L	Q = d	L
	L	L	d	Н	Н	Н	L	L	L	L	L	L	L	Q = d
Memory (no action)	Н	Н	Х	Х	Х	Х	q_0	q ₁	q_2	q_3	q ₄	q ₅	q ₆	q ₇
Addressable latch	Н	L	d	L	L	L	Q = d	q_1	q_2	q_3	q ₄	q ₅	q ₆	q ₇
	Н	L	d	Н	L	L	q_0	Q = d	q_2	q_3	q ₄	q ₅	q ₆	q ₇
	Н	L	d	L	Н	L	q_0	q ₁	Q = d	q ₃	q ₄	q ₅	q ₆	q ₇
	Н	L	d	Н	Н	L	q_0	q ₁	q_2	Q = d	q ₄	q ₅	q ₆	q ₇
	Н	L	d	L	L	Н	q_0	q ₁	q_2	q ₃	Q = d	q ₅	q ₆	q ₇
	Н	L	d	Н	L	Н	q_0	q ₁	q_2	q_3	q ₄	Q = d	q ₆	q ₇
	Н	L	d	L	Н	Н	q_0	q ₁	q_2	q_3	q ₄	q ₅	Q = d	q ₇
	Н	L	d	Н	Н	Н	q ₀	q ₁	q_2	q_3	q ₄	q ₅	q ₆	Q = d

Table 4. Operating mode select table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$

LE	MR	Mode
L	Н	Addressable latch mode
Н	Н	Memory mode
L	L	Demultiplexer mode
Н	L	Reset mode

7. Limiting values

Table 5. 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
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	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
lo	output current	$V_{O} = -0.5 \text{ V to } V_{CC} + 0.5 \text{ V}$	-	±25	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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ [2]	-	500	mW

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

8. Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC259-Q100		74HCT259-Q100			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	-	+125	-40	-	+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 7. Static characteristics

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

Symbol	Parameter	neter Conditions 25 °C			-40 °C to	+85 °C	-40 °C to	Unit		
			Min	Тур	Max	Min	Max	Min	Max	
74HC259	9-Q100									
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

^[2] For SOT109-1 (SO16) package: Ptot derates linearly with 12.4 mW/K above 110 °C.

For SOT403-1 (TSSOP16) package: Ptot derates linearly with 8.5 mW/K above 91 °C.

For SOT763-1 (DHVQFN16) package: Ptot derates linearly with 11.2 mW/K above 106 °C.

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	-	٧
		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	-	٧
		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	٧
		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	٧
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1	-	±1	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
74HCT2	59-Q100		•							
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} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	l _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	-	٧
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	٧
		I _O = 5.2 mA; V _{CC} = 6.0 V	-	0.15	0.26	-	0.33	-	0.4	V
l _l	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; $V_{CC} = 5.5 \text{ V}$	-	-	8.0	-	80	-	160	μA
ΔI _{CC}	additional supply current	$V_I = V_{CC}$ - 2.1 V; $I_O = 0$ A; other inputs at V_{CC} or GND; V_{CC} = 4.5 V to 5.5 V								
		pin An, LE	-	150	540	-	675	-	735	μΑ
		pin D	-	120	432	-	540	-	588	μΑ
		pin MR	-	75	270	-	338	-	368	μΑ
C _I	input capacitance		-	3.5	-	-	-	-	-	pF

10. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 12.

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
74HC25	9-Q100					ı				
t _{pd}	propagation	D to Qn; see Fig. 6 [2]								
	delay	V _{CC} = 2.0 V	-	58	185	-	230	-	280	ns
		V _{CC} = 4.5 V	-	21	37	-	46	-	56	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	18	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	17	31	-	39	-	48	ns
		An to Qn; see Fig. 7 [2]								
		V _{CC} = 2.0 V	-	58	185	-	230	-	280	ns
		V _{CC} = 4.5 V	-	21	37	-	46	-	56	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	17	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	17	31	-	39	-	48	ns
		LE to Qn; see Fig. 8 [2]								
		V _{CC} = 2.0 V	-	55	170	-	215	-	255	ns
		V _{CC} = 4.5 V	-	20	34	-	43	-	51	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	17	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	16	29	-	37	-	43	ns
t _{PHL}	HIGH to LOW	MR to Qn; see Fig. 9								
	propagation delay	V _{CC} = 2.0 V	-	50	155	-	195	-	235	ns
	asiay	V _{CC} = 4.5 V	-	18	31	-	39	-	47	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	15	-	-	-	-	-	ns
		V _{CC} = 6.0 V	-	14	26	-	33	-	40	ns
t _t	transition time	see <u>Fig. 8</u> [3]								
		V _{CC} = 2.0 V	-	19	75	-	95	-	119	ns
		V _{CC} = 4.5 V	-	7	15	-	19	-	22	ns
		V _{CC} = 6.0 V	-	6	13	-	16	-	19	ns
t_W	pulse width	LE HIGH or LOW; see Fig. 8								
		V _{CC} = 2.0 V	70	17	-	90	-	105	-	ns
		V _{CC} = 4.5 V	14	6	-	18	-	21	-	ns
		V _{CC} = 6.0 V	12	5	-	15	-	18	-	ns
		MR LOW; see Fig. 9								
		V _{CC} = 2.0 V	70	17	-	90	-	105	-	ns
		V _{CC} = 4.5 V	14	6	-	18	-	21	-	ns
		V _{CC} = 6.0 V	12	5	-	15	-	18	-	ns
t _{su}	set-up time	D, An to LE; see <u>Fig. 10</u> and <u>Fig. 11</u>								
		V _{CC} = 2.0 V	80	19	-	100	-	120	-	ns
		V _{CC} = 4.5 V	16	7	-	20	-	24	-	ns
		V _{CC} = 6.0 V	14	6	-	17	-	20	-	ns

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
t _h	hold time	D to LE; see Fig. 10 and Fig. 11								
		V _{CC} = 2.0 V	0	-19	-	0	-	0	-	ns
		V _{CC} = 4.5 V	0	-6	-	0	-	0	-	ns
		V _{CC} = 6.0 V	0	-5	-	0	-	0	-	ns
		An to LE; see Fig. 10 and Fig. 11								
		V _{CC} = 2.0 V	2	-11	-	2	-	2	-	ns
		V _{CC} = 4.5 V	2	-4	-	2	-	2	-	ns
		V _{CC} = 6.0 V	2	-3	-	2	-	2	-	ns
C _{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz}$; $V_i = \text{GND to } V_{CC}$ [4]	-	19	-	-	-	-	-	pF
74HCT2	59-Q100	I.				<u> </u>				1
t _{pd}	propagation	D to Qn; see Fig. 6 [2]								
	delay	V _{CC} = 4.5 V	-	23	39	-	49	-	59	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	20	-	-	-	-	-	ns
		An to Qn; see Fig. 7 [2]								
		V _{CC} = 4.5 V	-	25	41		51		62	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	20	-	-	-	-	-	ns
		LE to Qn; see Fig. 8 [2]								
		V _{CC} = 4.5 V	-	22	38	-	48	-	57	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	20	-	-	-	-	-	ns
t _{PHL}	HIGH to LOW	MR to Qn; see Fig. 9								
	propagation	V _{CC} = 4.5 V	-	23	39	-	49	-	59	ns
	delay	V _{CC} = 5.0 V; C _L = 15 pF	-	20	-	-	-	-	-	ns
t _t	transition time	see Fig. 8 [3]								
		V _{CC} = 4.5 V	-	7	15	-	19	-	22	ns
t _W	pulse width	LE HIGH or LOW; see Fig. 8								
		V _{CC} = 4.5 V	19	11	-	24	-	29	-	ns
		MR LOW; see Fig. 9								
		V _{CC} = 4.5 V	18	10	-	23	-	27	-	ns
t _{su}	set-up time	D, An to LE; see Fig. 10 and Fig. 11								
		V _{CC} = 4.5 V	17	10	-	21	-	26	-	ns
t _h	hold time	D to LE; see Fig. 10 and Fig. 11								
		V _{CC} = 4.5 V	0	-8	-	0	-	0	-	ns
		An to LE; see Fig. 10 and Fig. 11								
		V _{CC} = 4.5 V	0	-4	-	0	_	0	_	ns

Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
C _{PD}	power dissipation capacitance	f_i = 1 MHz; [4] V _I = GND to V _{CC} - 1.5 V	-	19	-	-	-	-	-	pF

- [1] 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} .
- [3] t_t is the same as t_{THL} and t_{TLH} .
- [4] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W).

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

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

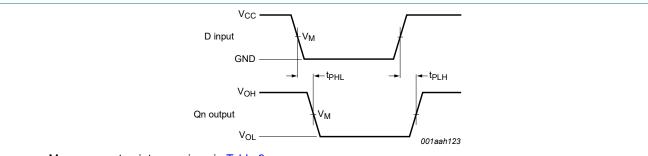
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

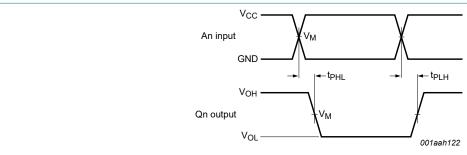
10.1. Waveforms and test circuit



Measurement points are given in Table 9.

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

Fig. 6. Data input to output propagation delays



Measurement points are given in Table 9.

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

Fig. 7. Address input to output propagation delays

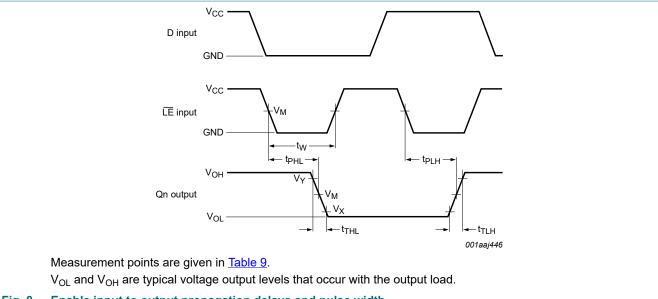
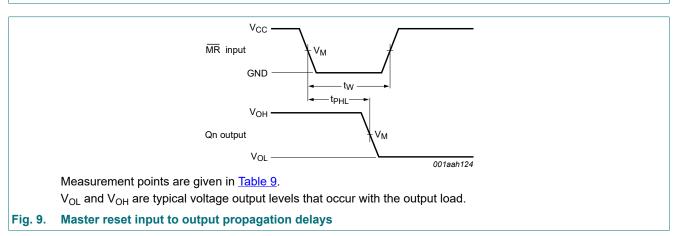
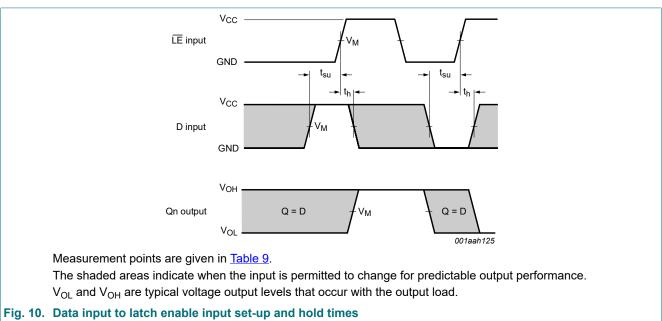
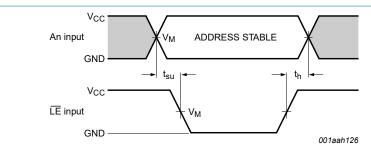


Fig. 8. Enable input to output propagation delays and pulse width







Measurement points are given in Table 9.

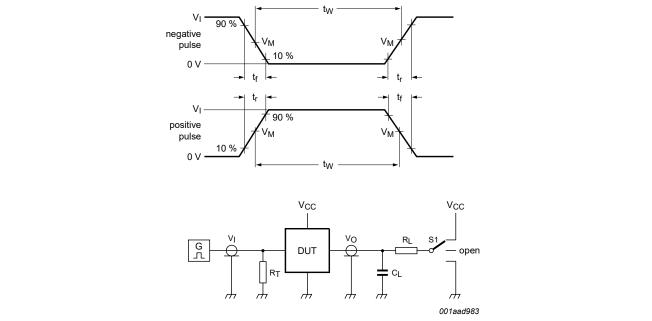
The shaded areas indicate when the input is permitted to change for predictable output performance.

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

Fig. 11. Address input to latch enable input set-up and hold times

Table 9. Measurement points

Туре	Input	Output		
	V _M	V _M	V _X	V_{Y}
74HC259-Q100	0.5V _{CC}	0.5V _{CC}	0.1V _{CC}	0.9V _{CC}
74HCT259-Q100	1.3 V	1.3 V	0.1V _{CC}	0.9V _{CC}



Test data is given in Table 10.

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. 12. Test circuit for measuring switching times

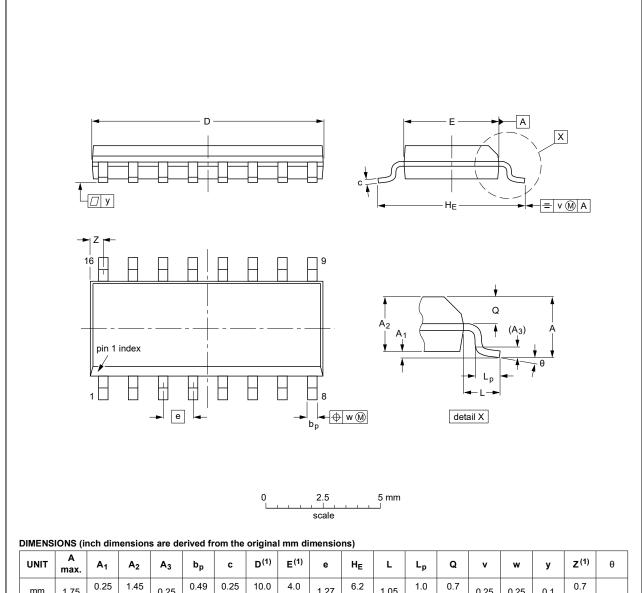
Table 10. Test data

Туре	Input		Load	S1 position	
	V _I	t _r , t _f	C _L	R_L	t _{PHL} , t _{PLH}
74HC259-Q100	V _{CC}	6 ns	15 pF, 50 pF	1 kΩ	open
74HCT259-Q100	3 V	6 ns	15 pF, 50 pF	1 kΩ	open

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°

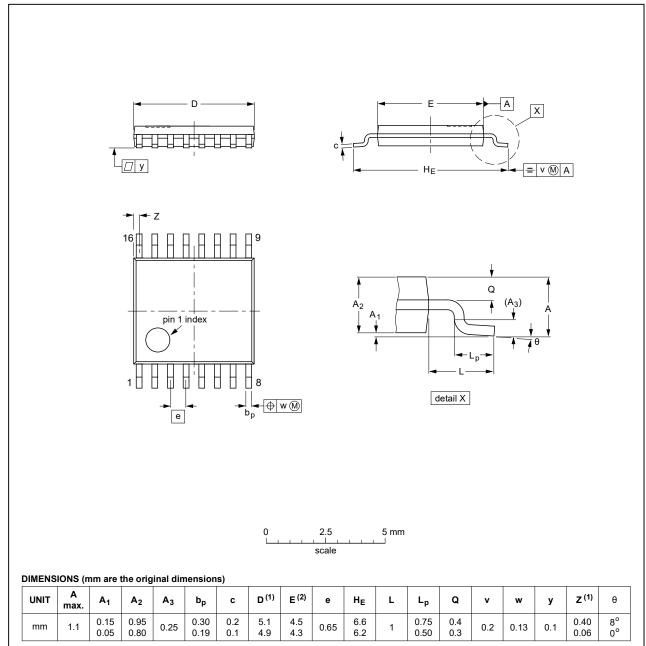
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

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

Fig. 13. Package outline SOT109-1 (SO16)

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

Fig. 14. 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

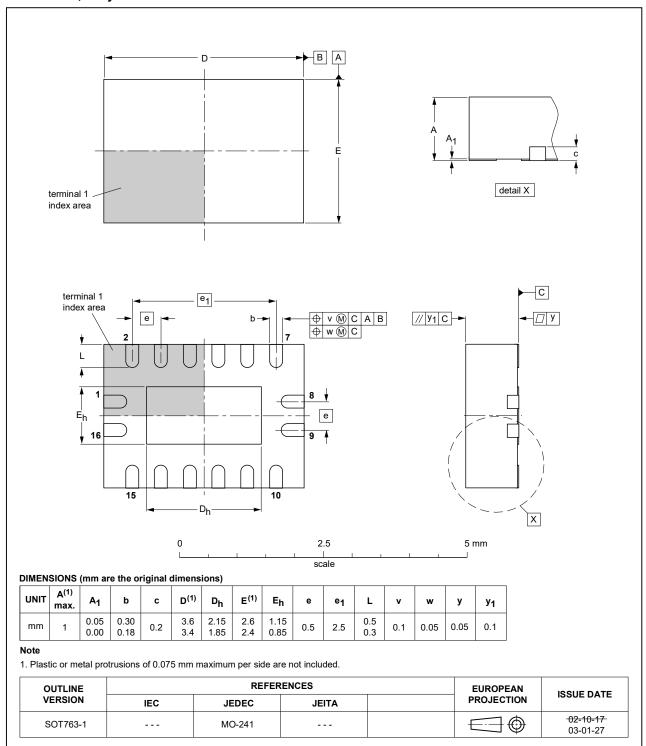


Fig. 15. Package outline SOT763-1 (DHVQFN16)

12. Abbreviations

Table 11. Abbreviations

Acronym	Description
CDM	Charged Device Model
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 12. Revision history

Table 121 Heritarian Iniciary				
Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT259_Q100 v.2	20200902	Product data sheet	-	74HC_HCT259_Q100 v.1
Modifications:	Nexperia. Legal texts have Section 1 and Se	been adapted to the nev	พ company name whe	
74HC_HCT259_Q100 v.1	20120730	Product data sheet	-	-

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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For more information, please visit: http://www.nexperia.com For sales office addresses, please send an email to: salesaddresses@nexperia.com Date of release: 2 September 2020

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