

74AHC259-Q100; 74AHCT259-Q100

8-bit addressable latch

Rev. 1 — 22 July 2013

Product data sheet

1. General description

The 74AHC259-Q100; 74AHCT259-Q100 is a high-speed Si-gate CMOS device and is pin compatible with Low-power Schottky TTL (LSTTL). It is specified in compliance with JEDEC standard No. 7-A.

The 74AHC259-Q100; 74AHCT259-Q100 is a high-speed 8-bit addressable latch designed for general purpose storage applications in digital systems. It is a multifunctional device capable of storing single-line data in eight addressable latches. It provides a 3-to-8 decoder and multiplexer function with active HIGH outputs (Q0 to Q7). It also incorporates an active LOW common reset (MR) for resetting all latches as well as an active LOW enable input (LE).

The 74AHC259-Q100; 74AHCT259-Q100 has four modes of operation:

- In the addressable latch mode, data on the data line (D) is written into the addressed latch. The addressed latch follows the data input with all non-addressed latches remaining in their previous states.
- In the memory mode, all latches remain in 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 state of the data input (D) with all other outputs in the LOW state.
- In the reset mode, all outputs are LOW and unaffected by the address inputs (A0 to A2) and data input (D).

When operating the 74AHC259-Q100; 74AHCT259-Q100 as an address latch, changing more than 1 bit of the address could impose a transient-wrong address. Therefore, only change more than 1 bit while in the memory mode.

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 $+85^{\circ}\text{C}$ and from -40°C to $+125^{\circ}\text{C}$
- Balanced propagation delays
- All inputs have Schmitt-trigger actions
- Combines 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
- Inputs accept voltages higher than V_{CC}
- Input levels:
 - ◆ For 74AHC259-Q100: CMOS level
 - ◆ For 74AHCT259-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 ($C = 200 \text{ pF}, R = 0 \Omega$)
- Multiple package options

3. Ordering information

Table 1. Ordering information

Type number	Package				Version
	Temperature range	Name	Description		
74AHC259-Q100					
74AHC259D-Q100	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm		SOT109-1
74AHC259PW-Q100	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm		SOT403-1
74AHCT259-Q100					
74AHCT259D-Q100	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm		SOT109-1
74AHCT259PW-Q100	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm		SOT403-1

4. Functional diagram

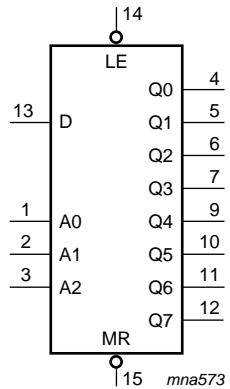


Fig 1. Logic symbol

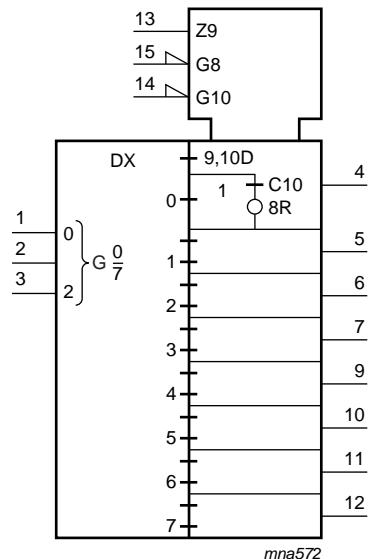


Fig 2. IEC logic symbol

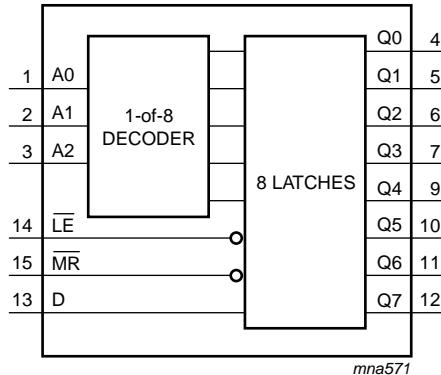


Fig 3. Functional diagram

5. Pinning information

5.1 Pinning

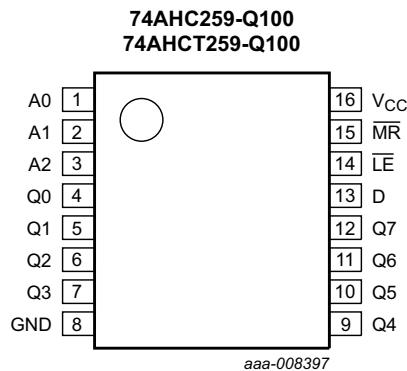


Fig 4. Pin configuration

5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
A0	1	address input
A1	2	address input
A2	3	address input
Q0	4	latch output
Q1	5	latch output
Q2	6	latch output
Q3	7	latch output
GND	8	ground (0 V)
Q4	9	latch output
Q5	10	latch output
Q6	11	latch output
Q7	12	latch output
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^[1]

Operating mode	Input						Output							
	MR	\overline{LE}	D	A0	A1	A2	Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7
Reset (clear)	L	H	X	X	X	X	L	L	L	L	L	L	L	L
Demultiplexer (active HIGH 8-channel) decoder (when D = H)	L	L	d	L	L	L	$Q = d$	L	L	L	L	L	L	L
			d	H	L	L	L	$Q = d$	L	L	L	L	L	L
			d	L	H	L	L	L	$Q = d$	L	L	L	L	L
			d	H	H	L	L	L	L	$Q = d$	L	L	L	L
			d	L	L	H	L	L	L	L	$Q = d$	L	L	L
			d	H	L	H	L	L	L	L	$Q = d$	L	L	L
			d	L	H	H	L	L	L	L	$Q = d$	L	$Q = d$	L
Memory (no action)	H	H	X	X	X	X	q_0	q_1	q_2	q_3	q_4	q_5	q_6	q_7
Addressable latch	H	L	d	L	L	L	$Q = d$	q_1	q_2	q_3	q_4	q_5	q_6	q_7
			d	H	L	L	q_0	$Q = d$	q_2	q_3	q_4	q_5	q_6	q_7
			d	L	H	L	q_0	q_1	$Q = d$	q_3	q_4	q_5	q_6	q_7
			d	H	H	L	q_0	q_1	q_2	$Q = d$	q_4	q_5	q_6	q_7
			d	L	L	H	q_0	q_1	q_2	q_3	$Q = d$	q_5	q_6	q_7
			d	H	L	H	q_0	q_1	q_2	q_3	q_4	$Q = d$	q_6	q_7
			d	L	H	H	q_0	q_1	q_2	q_3	q_4	q_5	$Q = d$	q_7
			H	H	H	H	q_0	q_1	q_2	q_3	q_4	q_5	q_6	$Q = d$

[1] H = HIGH voltage level;

L = LOW voltage level;

X = don't care;

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

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

Table 4. Operating mode select table^[1]

LE	MR	Mode
L	H	addressable latch
H	H	memory
L	L	active HIGH 8-channel demultiplexer
H	L	reset

[1] H = HIGH voltage level; L = LOW voltage level.

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
V _I	input voltage		-0.5	+7.0	V
I _{IK}	input clamping current	V _I < -0.5 V	[1] -20	-	mA
I _{OK}	output clamping current	V _O < -0.5 V or V _O > V _{CC} + 0.5 V	[1] -20	+20	mA
I _O	output current	V _O = -0.5 V to (V _{CC} + 0.5 V)	-25	+25	mA
I _{CC}	supply current		-	+75	mA
I _{GND}	ground current		-75	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C	[2] -	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 the value of P_{tot} derates linearly at 8 mW/K.

For TSSOP16 packages: above 60 °C the value of P_{tot} derates linearly at 5.5 mW/K.

8. Recommended operating conditions

Table 6. Operating conditions

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
74AHC259-Q100						
V _{CC}	supply voltage		2.0	5.0	5.5	V
V _I	input voltage		0	-	5.5	V
V _O	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 3.0 V to 3.6 V	-	-	100	ns/V
		V _{CC} = 4.5 V to 5.5 V	-	-	20	ns/V
74AHCT259-Q100						
V _{CC}	supply voltage		4.5	5.0	5.5	V
V _I	input voltage		0	-	5.5	V
V _O	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 4.5 V to 5.5 V	-	-	20	ns/V

9. Static characteristics

Table 7. 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	Typ	Max	Min	Max	Min	Max	
74AHC259-Q100										
V_{IH}	HIGH-level input voltage	$V_{CC} = 2.0 \text{ V}$	1.5	-	-	1.5	-	1.5	-	V
		$V_{CC} = 3.0 \text{ V}$	2.1	-	-	2.1	-	2.1	-	V
		$V_{CC} = 5.5 \text{ V}$	3.85	-	-	3.85	-	3.85	-	V
V_{IL}	LOW-level input voltage	$V_{CC} = 2.0 \text{ V}$	-	-	0.5	-	0.5	-	0.5	V
		$V_{CC} = 3.0 \text{ V}$	-	-	0.9	-	0.9	-	0.9	V
		$V_{CC} = 5.5 \text{ V}$	-	-	1.65	-	1.65	-	1.65	V
V_{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}								
		$I_O = -50 \mu\text{A}; V_{CC} = 2.0 \text{ V}$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_O = -50 \mu\text{A}; V_{CC} = 3.0 \text{ V}$	2.9	3.0	-	2.9	-	2.9	-	V
		$I_O = -50 \mu\text{A}; V_{CC} = 4.5 \text{ V}$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_O = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	V
		$I_O = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.80	-	3.70	-	V
V_{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}								
		$I_O = 50 \mu\text{A}; V_{CC} = 2.0 \text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu\text{A}; V_{CC} = 3.0 \text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu\text{A}; V_{CC} = 4.5 \text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
		$I_O = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
I_I	input leakage current	$V_I = 5.5 \text{ V}$ or GND; $V_{CC} = 0 \text{ V}$ to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
I_{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0 \text{ A}$; $V_{CC} = 5.5 \text{ V}$	-	-	4.0	-	40	-	80	μA
C_I	input capacitance	$V_I = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
C_O	output capacitance		-	4	-	-	-	-	-	pF
74AHCT259-Q100										
V_{IH}	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V}$ to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V_{IL}	LOW-level input voltage	$V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
V_{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
		$I_O = -50 \mu\text{A}$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_O = -8.0 \text{ mA}$	3.94	-	-	3.80	-	3.70	-	V
V_{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
		$I_O = 50 \mu\text{A}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 8.0 \text{ mA}$	-	-	0.36	-	0.44	-	0.55	V

Table 7. Static characteristics ...continued

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	Typ	Max	Min	Max	Min	Max	
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	4.0	-	40	-	80	μA
ΔI _{CC}	additional supply current	per input pin; V _I = V _{CC} − 2.1 V; other pins at V _{CC} or GND; I _O = 0 A; V _{CC} = 4.5 V to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
C _I	input capacitance	V _I = V _{CC} or GND	-	3	10	-	10	-	10	pF
C _O	output capacitance		-	4	-	-	-	-	-	pF

10. Dynamic characteristics

Table 8. Dynamic characteristicsVoltages are referenced to GND (ground = 0 V); for test circuit, see [Figure 11](#).

Symbol	Parameter	Conditions	25 °C			−40 °C to +85 °C		−40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	Min	Max	
74AHC259-Q100										
t _{pd}	propagation delay	D to Q _n ; see Figure 5	[2]							
		V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	5.8	11.5	1.0	13.5	1.0	15.0	ns
		C _L = 50 pF	-	7.3	14.5	1.0	17.0	1.0	18.5	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	4.1	7.5	1.0	9.0	1.0	10.0	ns
		C _L = 50 pF	-	5.3	9.5	1.0	11.0	1.0	12.0	ns
		An to Q _n ; see Figure 6	[2]							
		V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	7.5	14.5	1.0	17.0	1.0	18.5	ns
		C _L = 50 pF	-	9.1	18.0	1.0	21.0	1.0	23.0	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	5.3	9.5	1.0	11.5	1.0	12.5	ns
		C _L = 50 pF	-	6.5	11.5	1.0	13.5	1.0	15.0	ns
		LE to Q _n ; see Figure 7	[2]							
		V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	6.2	12.0	1.0	14.0	1.0	15.2	ns
		C _L = 50 pF	-	7.7	15.5	1.0	17.5	1.0	19.0	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	4.3	8.0	1.0	9.5	1.0	10.5	ns
		C _L = 50 pF	-	5.5	10.0	1.0	11.5	1.0	12.5	ns

Table 8. Dynamic characteristics ...continuedVoltages are referenced to GND (ground = 0 V); for test circuit, see [Figure 11](#).

Symbol	Parameter	Conditions	25 °C			−40 °C to +85 °C		−40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	Min	Max	
t _{pd}	propagation delay	MR to Qn; see Figure 8	^[3]							
		V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	5.4	10.5	1.0	12.5	1.0	13.5	ns
		C _L = 50 pF	-	7.0	13.5	1.0	15.5	1.0	17.0	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	3.9	7.0	1.0	8.5	1.0	9.5	ns
t _w	pulse width	C _L = 50 pF	-	5.1	9.0	1.0	10.5	1.0	11.5	ns
		LE HIGH or LOW; see Figure 7								
		V _{CC} = 3.0 V to 3.6 V	5.0	-	-	5.0	-	5.0	-	ns
		V _{CC} = 4.5 V to 5.5 V	5.0	-	-	5.0	-	5.0	-	ns
		MR LOW; see Figure 8								
		V _{CC} = 3.0 V to 3.6 V	5.0	-	-	5.0	-	5.0	-	ns
t _{su}	set-up time	V _{CC} = 4.5 V to 5.5 V	5.0	-	-	5.0	-	5.0	-	ns
		D, An to LE; see Figure 9 and Figure 10								
		V _{CC} = 3.0 V to 3.6 V	4.0	-	-	4.0	-	4.0	-	ns
t _h	hold time	V _{CC} = 4.5 V to 5.5 V	4.0	-	-	4.0	-	4.0	-	ns
		D, An to LE; see Figure 9 and Figure 10								
		V _{CC} = 3.0 V to 3.6 V	1.0	-	-	1.0	-	1.0	-	ns
		V _{CC} = 4.5 V to 5.5 V	1.0	-	-	1.0	-	1.0	-	ns
C _{PD}	power dissipation capacitance	f _i = 1 MHz; V _I = GND to V _{CC}	^[4]	-	13	-	-	-	-	pF

74AHCT259-Q100; V_{CC} = 4.5 V to 5.5 V

t _{pd}	propagation delay	D to Qn; see Figure 5	^[2]							
		C _L = 15 pF	-	4.1	7.5	1.0	9.0	1.0	10.0	ns
		C _L = 50 pF	-	5.4	9.5	1.0	11.0	1.0	12.0	ns
		An to Qn; see Figure 6	^[2]							
		C _L = 15 pF	-	5.5	9.5	1.0	11.5	1.0	12.5	ns
		C _L = 50 pF	-	6.6	12.0	1.0	14.0	1.0	15.5	ns
t _w	pulse width	LE to Qn; see Figure 7	^[2]							
		C _L = 15 pF	-	4.3	8.0	1.0	9.5	1.0	10.4	ns
		C _L = 50 pF	-	5.5	10.0	1.0	12.0	1.0	13.0	ns
		MR to Qn; see Figure 8	^[3]							
		C _L = 15 pF	-	3.9	7.0	1.0	8.5	1.0	9.5	ns
		C _L = 50 pF	-	5.1	9.0	1.0	10.5	1.0	11.5	ns

Table 8. Dynamic characteristics ...continuedVoltages are referenced to GND (ground = 0 V); for test circuit, see [Figure 11](#).

Symbol	Parameter	Conditions	25 °C			−40 °C to +85 °C		−40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	Min	Max	
t_{su}	set-up time	D, An to \overline{LE} ; see Figure 9 and Figure 10	4.0	-	-	4.0	-	4.0	-	ns
t_h	hold time	D, An to \overline{LE} ; see Figure 9 and Figure 10	1.0	-	-	1.0	-	1.0	-	ns
C_{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz}$; $V_i = \text{GND to } V_{CC}$	[4]	-	17	-	-	-	-	pF

[1] Typical values are measured at nominal supply voltage ($V_{CC} = 3.3 \text{ V}$ and $V_{CC} = 5.0 \text{ V}$).[2] t_{pd} is the same as t_{PLH} and t_{PHL} .[3] t_{pd} is the same as t_{PHL} only.[4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

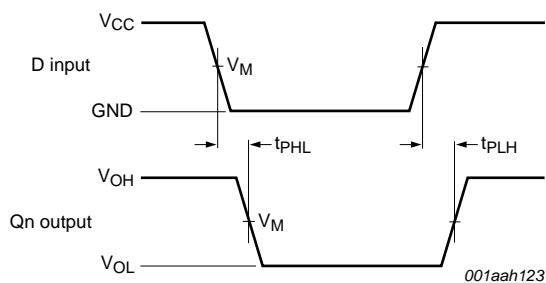
$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum(C_L \times V_{CC}^2 \times f_o)$$

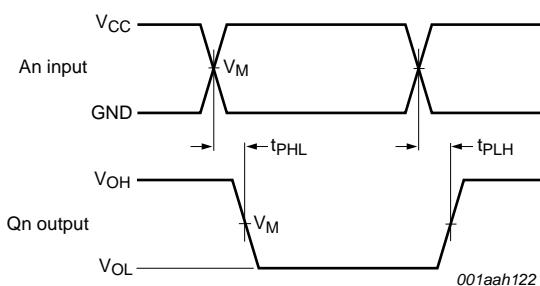
 f_i = input frequency in MHz; f_o = output frequency in MHz; C_L = output load capacitance in pF; V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11. Waveforms

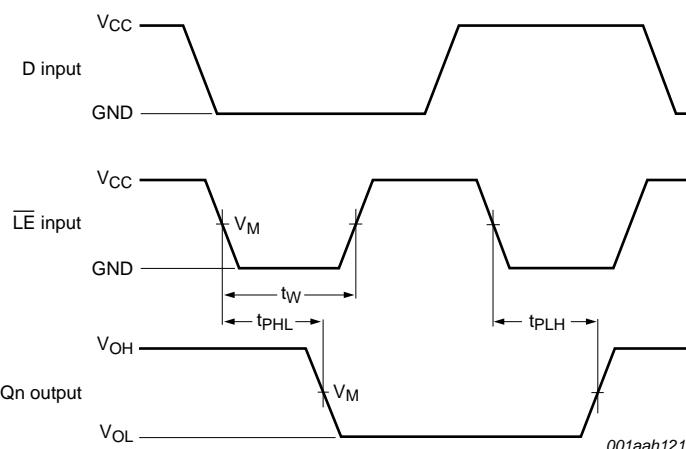
Measurement points are given in [Table 9](#). V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.**Fig 5. Data input to output propagation delays**



Measurement points are given in [Table 9](#).

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

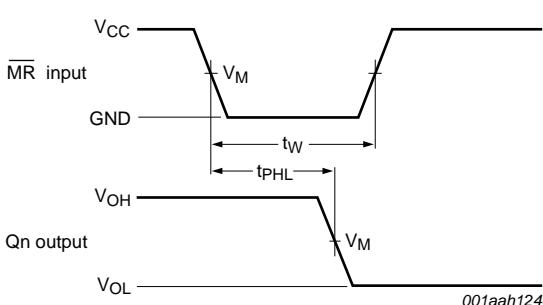
Fig 6. Address input to output propagation delays



Measurement points are given in [Table 9](#).

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

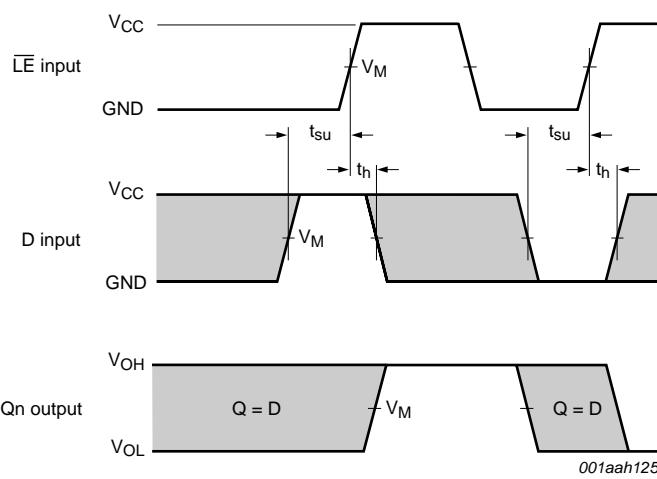
Fig 7. Enable input to output propagation delays and pulse width



Measurement points are given in [Table 9](#).

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

Fig 8. Conditional reset input to output propagation delays

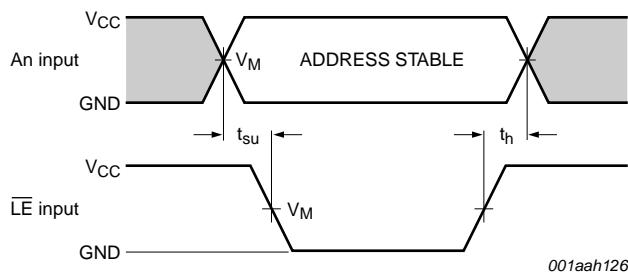


Measurement points are given in [Table 9](#).

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 9. Data input to latch enable input set-up and hold times



Measurement points are given in [Table 9](#).

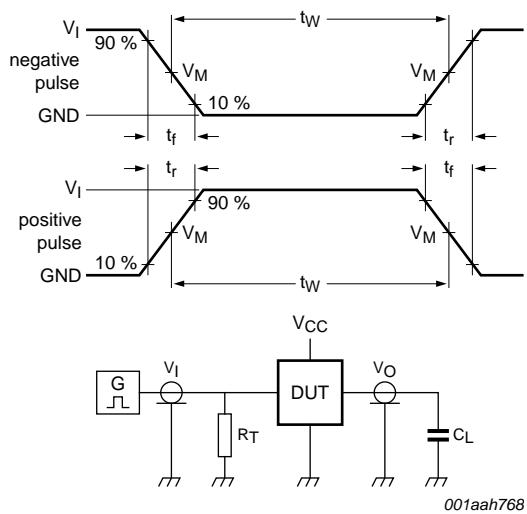
The shaded areas indicate when the input is permitted to change for predictable output performance.

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

Fig 10. Address input to latch enable input set-up and hold times

Table 9. Measurement points

Type	Input	Output
	V_M	V_M
74AHC259-Q100	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
74AHCT259-Q100	1.5 V	$0.5 \times V_{CC}$



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.

Fig 11. Load circuitry for measuring switching times

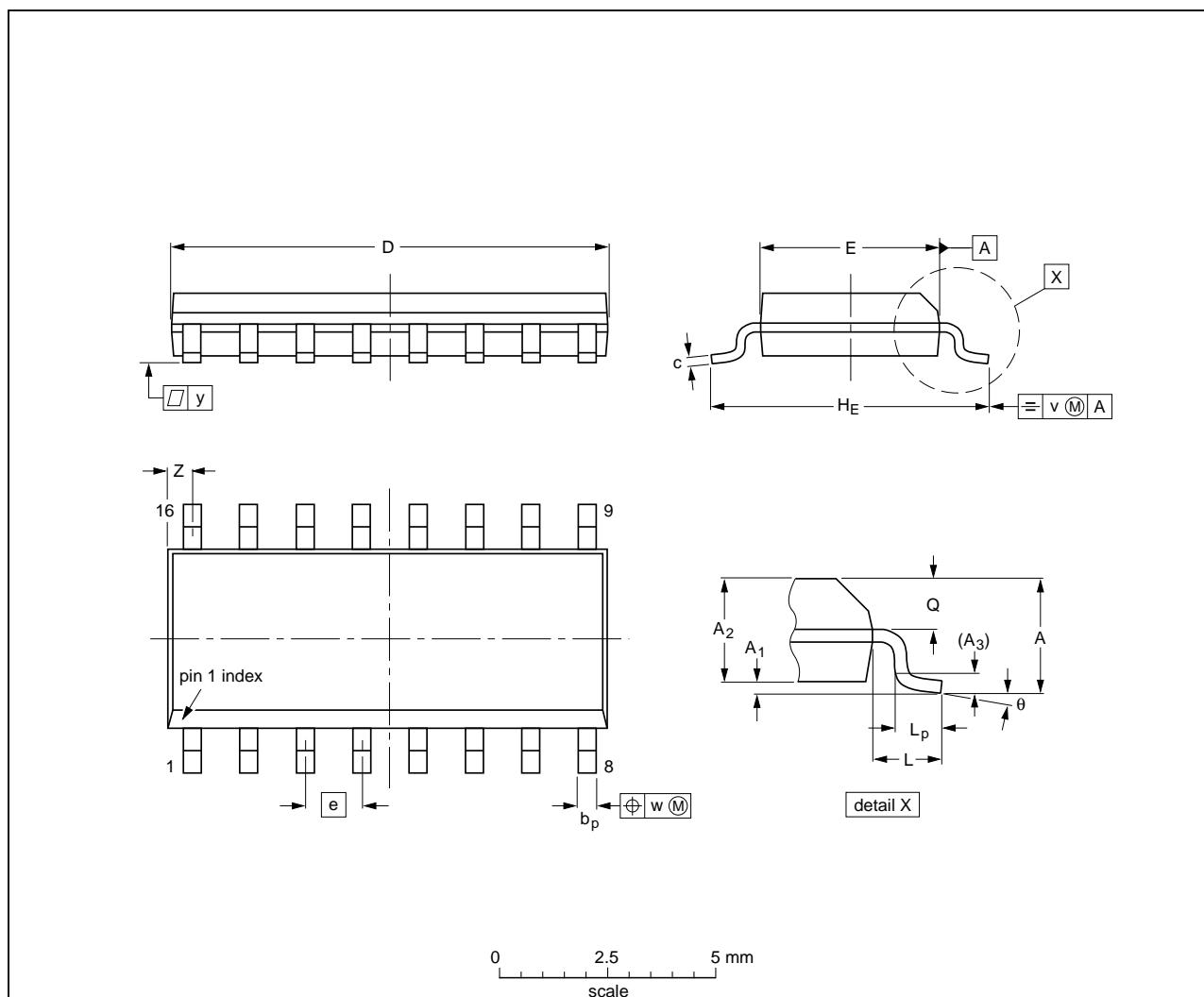
Table 10. Test data

Type	Input		Load	Test
	V_I	t_r, t_f		
74AHC259-Q100	V_{CC}	$\leq 3.0 \text{ ns}$	15 pF, 50 pF	t_{PLH}, t_{PHL}
74AHCT259-Q100	3.0 V	$\leq 3.0 \text{ ns}$	15 pF, 50 pF	t_{PLH}, t_{PHL}

12. Package outline

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

SOT109-1



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

UNIT	A max.	A ₁	A ₂	A ₃	b _p	c	D ⁽¹⁾	E ⁽¹⁾	e	H _E	L	L _p	Q	v	w	y	Z ⁽¹⁾	θ
mm	1.75 0.10	0.25 1.25	1.45	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 0.004	0.010 0.049	0.057 0.049	0.01	0.019 0.014	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°

Note

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

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

Fig 12. Package outline SOT109-1 (SO16)

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

SOT403-1

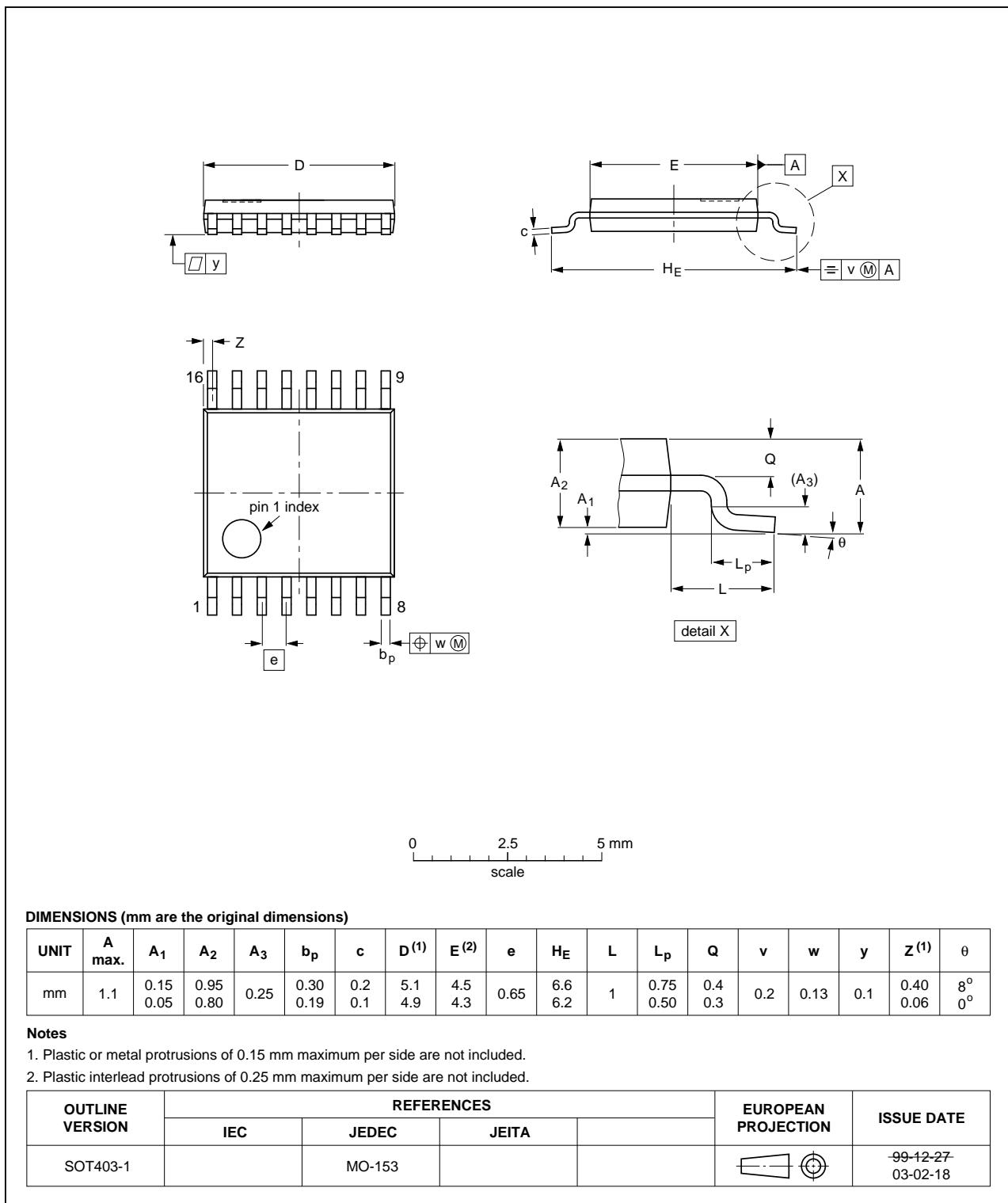


Fig 13. Package outline SOT403-1 (TSSOP16)

13. Abbreviations

Table 11. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
MIL	Military
TTL	Transistor-Transistor Logic

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT259_Q100 v.1	20130722	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.

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

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