

74HCS264-Q100

8-bit serial-in, parallel-out shift register with Schmitt-trigger inputs and inverting outputs

Rev. 1 — 5 June 2025

Product data sheet

1. General description

The 74HCS264-Q100 is an 8-bit serial-in/parallel-out shift register. The device features two serial data inputs (DSA and DSB), eight parallel inverting data outputs ($\overline{Q0}$ to $\overline{Q7}$). Data is entered serially through DSA or DSB and either input can be used as an active HIGH enable for data entry through the other input. Data is shifted on the LOW-to-HIGH transitions of the clock (CP) input. A LOW on the master reset input (\overline{MR}) clears the register and forces all outputs HIGH, independently of other inputs. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

All inputs are Schmitt-trigger inputs, capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

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
- · Schmitt-trigger inputs
- Low power consumption
 - Typical supply current (I_{CC}) of 100 nA
 - Typical input leakage current (I_I) of ±10 nA
- ±7.8 mA output drive at 6 V
- 8-bit serial input and 8-bit serial or parallel output
- Storage register with 3-state outputs
- · Shift register with direct clear
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards:
 - JESD7A (2.0 V to 6.0 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 3A exceeds 4000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1500 V
- Multiple package options
- DHVQFN package with Side-Wettable Flanks enabling Automated Optical Inspection (AOI) of solder joints

3. Applications

- Serial-to-parallel data conversion
- · Remote control holding register
- Output expansion
- LED matrix control
- 7-segment display control
- 8-bit data storage

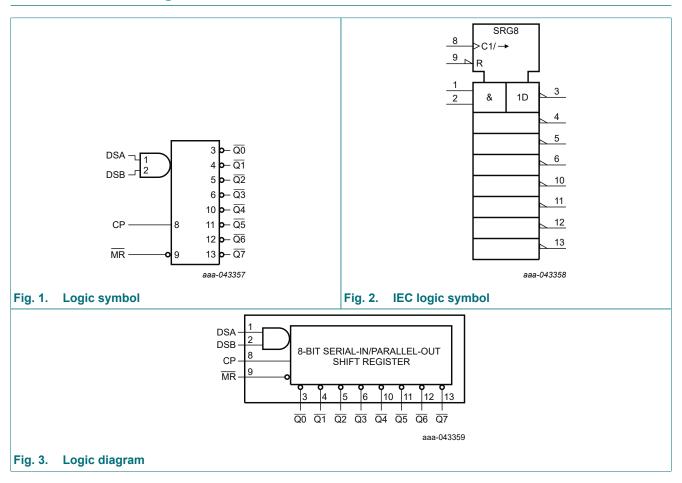


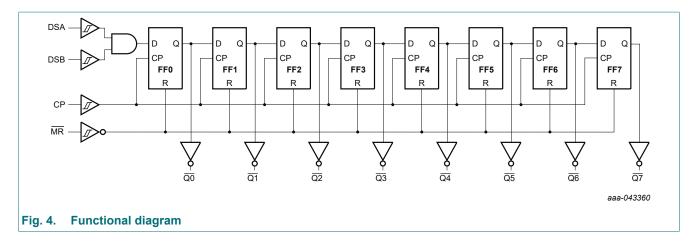
4. Ordering information

Table 1. Ordering information

Type number	Package	Package								
	Temperature range	Name	Description	Version						
74HCS264D-Q100	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1						
74HCS264PW-Q100	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1						
74HCS264BQ-Q100	-40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm	SOT762-1						

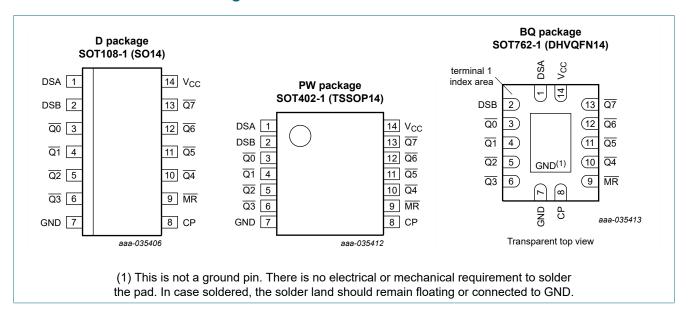
5. Functional diagram





6. Pinning information

6.1. Pinning



6.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
DSA	1	serial data input A
DSB	2	serial data input B
$\overline{\mathrm{Q0}},\overline{\mathrm{Q1}},\overline{\mathrm{Q2}},\overline{\mathrm{Q3}},\overline{\mathrm{Q4}},\overline{\mathrm{Q5}},\overline{\mathrm{Q6}},\overline{\mathrm{Q7}}$	3, 4, 5, 6, 10, 11, 12, 13	parallel output (inverting)
GND	7	ground (0 V)
СР	8	clock input (LOW-to-HIGH, edge-triggered)
MR	9	master reset input (active LOW)
V _{CC}	14	positive supply voltage

7. Functional description

Table 3. Function table

H = HIGH voltage level; h = HIGH voltage level one set-up time prior to the LOW-to-HIGH clock transition;

L = LOW voltage level; I = LOW voltage level one set-up time prior to the LOW-to-HIGH clock transition

q = lower case letters indicate the state of the referenced input one set-up time prior to the LOW-to-HIGH clock transition

↑ = LOW-to-HIGH clock transition; X = don't care

Operating	Input		Output	Output		
modes	MR	СР	DSA	DSB	Q0	Q1 to Q7
Reset (clear)	L	Х	Х	Х	Н	H to H
Shift	Н	1	I	I	Н	q0 to q6
	Н	1	I	h	Н	q0 to q6
	Н	1	h	I	Н	q0 to q6
	Н	1	h	h	L	q0 to q6

8. 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	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$	[1]	-	±20	mA
Io	output current	$V_O = 0 V \text{ to } V_{CC}$		-	±35	mA
I _{CC}	supply current			-	70	mA
I _{GND}	ground current			-70	-	mA
Tj	junction temperature		[2]	-	+150	°C
T _{stg}	storage temperature			-65	+150	°C
V_{ESD}	electrostatic discharge	HBM: ANSI/ESDA/JEDEC JS-001 class 3A exceeds 4000 V		-	±4000	V
		CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1500 V		-	±1500	V
P _{tot}	total power dissipation		[3]	-	500	mW

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

For SOT402-1 (TSSOP14) package: Ptot derates linearly with 7.3 mW/K above 81 °C.

For SOT762-1 (DHVQFN14) package: Ptot derates linearly with 9.6 mW/K above 98 °C.

9. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{CC}	supply voltage		2.0	5.0	6.0	V
VI	input voltage		0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C

^[2] Guaranteed by design.

^[3] For SOT108-1 (SO14) package: P_{tot} derates linearly with 10.1 mW/K above 100 °C.

10. Static characteristics

Table 6. Static characteristics

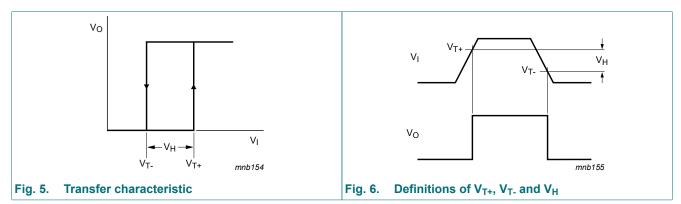
At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

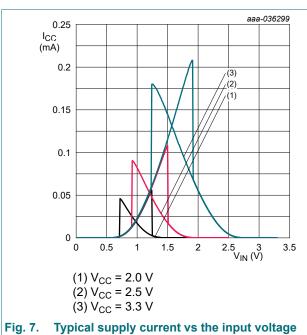
Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
V _{T+}	positive-going	see Fig. 5 and Fig. 6								
	threshold voltage	V _{CC} = 2.0 V	0.7	-	1.5	0.7	1.5	0.7	1.5	V
	Voltage	V _{CC} = 4.5 V	1.7	-	3.15	1.7	3.15	1.7	3.15	V
		V _{CC} = 6 V	2.1	-	4.2	2.1	4.2	2.1	4.2	V
		V _{CC} = 3.0 V to 3.6 V	0.4V _{CC}	-	0.7V _{CC}	0.4V _{CC}	0.7V _{CC}	0.4V _{CC}	0.7V _{CC}	V
		V _{CC} = 4.5 V to 5.5 V	0.38V _{CC}	-	0.7V _{CC}	0.38V _{CC}	0.7V _{CC}	0.38V _{CC}	0.7V _{CC}	V
V _{T-}	negative-	see Fig. 5 and Fig. 6								
	going threshold	V _{CC} = 2.0 V	0.3	-	1.0	0.3	1.0	0.3	1.0	V
	voltage	V _{CC} = 4.5 V	0.9	-	2.2	0.9	2.2	0.9	2.2	V
		V _{CC} = 6 V	1.2	-	3.0	1.2	3.0	1.2	3.0	V
		V _{CC} = 3.0 V to 3.6 V	0.2V _{CC}	-	0.5V _{CC}	0.2V _{CC}	0.5V _{CC}	0.2V _{CC}	0.5V _{CC}	V
		V _{CC} = 4.5 V to 5.5 V	0.2V _{CC}	-	0.49V _{CC}	0.2V _{CC}	0.49V _{CC}	0.2V _{CC}	0.49V _{CC}	V
V _H		see Fig. 5 and Fig. 6								
	voltage[1]	V _{CC} = 2.0 V	0.2	0.52	1.0	0.2	1.0	0.2	1.0	V
		V _{CC} = 4.5 V	0.4	0.85	1.4	0.4	1.4	0.4	1.4	V
		V _{CC} = 6 V	0.6	1.1	1.6	0.6	1.6	0.6	1.6	V
		V _{CC} = 3.0 V to 3.6 V	0.1V _{CC}	0.72	0.38V _{CC}	0.1V _{CC}	0.38V _{CC}	0.1V _{CC}	0.38V _{CC}	V
		V _{CC} = 4.5 V to 5.5 V	0.09V _{CC}	0.94	0.29V _{CC}	0.09V _{CC}	0.29V _{CC}	0.09V _{CC}	0.29V _{CC}	V
V _{OH}	HIGH-level	V _I = V _{IH} or V _{IL}								
	output voltage	I _{OH} = -20 μA; V _{CC} = 2.0 V to 6 V	V _{CC} -0.1	V _{CC} -0.002	-	V _{CC} -0.1	-	V _{CC} -0.1	-	V
		I _{OH} = -4 mA; V _{CC} = 3.0 V	2.7	2.85	-	2.7	-	2.7	-	V
		I _{OH} = -6 mA; V _{CC} = 4.5 V	4.0	4.3	-	4.0	-	4.0	-	V
		I _{OH} = -7.8 mA; V _{CC} = 6.0 V	5.48	5.75	-	5.4	-	5.4	-	V
V_{OL}	LOW-level	V _I = V _{IH} or V _{IL}								
	output voltage	I _{OL} = 20 μA; V _{CC} = 2.0 V to 6 V	-	0.002	0.1	-	0.1	-	0.1	V
		I _{OL} = 4 mA; V _{CC} = 3.0 V	-	0.14	0.25	-	0.25	-	0.25	V
		I _{OL} = 6 mA; V _{CC} = 4.5 V	-	0.18	0.26	-	0.30	-	0.30	V
		I _{OL} = 7.8 mA; V _{CC} = 6.0 V	-	0.22	0.26	-	0.33	-	0.33	V
lı	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	±0.01	±0.1	-	±0.25	-	±1.0	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	0.1	-	-	0.5	-	2.0	μΑ

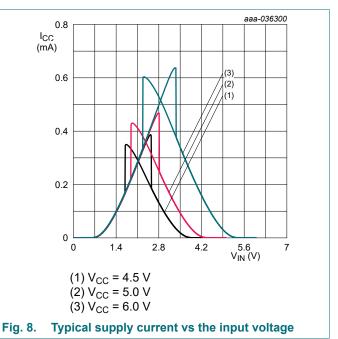
^[1] Guaranteed by design.

10.1. Transfer characteristic waveforms and graphs

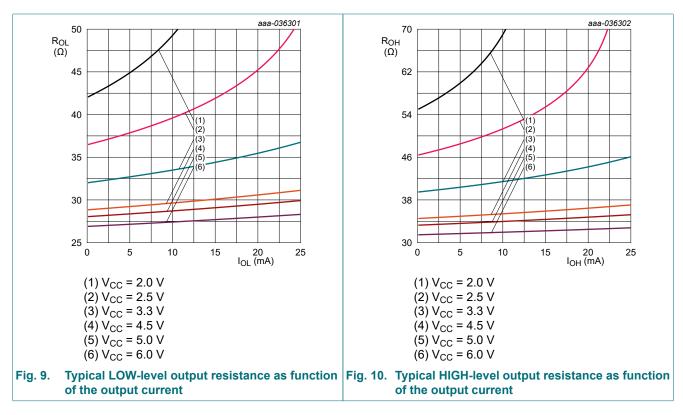
10.1.1. For inputs











11. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Section 11.1.

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	
t _{pd}	propagation	CP to Qn; see Fig. 11 [2]								
	delay	V _{CC} = 2 V	-	20	26	-	39	-	42	ns
		V _{CC} = 4.5 V	-	8	12	-	15	-	16	ns
	V _{CC} = 6 V	-	7	11	-	14	-	14	ns	
	V _{CC} = 3.0 V to 3.6 V	-	8	16	-	20	-	21	ns	
		V _{CC} = 4.5 V to 5.5 V	-	7	12	-	15	-	16	ns
t _{PLH}		MR to Qn; see Fig. 12								
	propagation delay	V _{CC} = 2 V	-	20	25	-	39	-	42	ns
	uelay	V _{CC} = 4.5 V	-	8	12	-	17	-	18	ns
		V _{CC} = 6 V	-	7	11	-	14	-	15	ns
		V _{CC} = 3.0 V to 3.6 V	-	10	15	-	22	-	23	ns
		V _{CC} = 4.5 V to 5.5 V	-	8	12	-	17	-	18	ns

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
				Typ[1]	Max	Min	Max	Min	Max	
t _t	transition	Qn, see <u>Fig. 11</u> [3]								
	time	V _{CC} = 2 V	-	9	13	-	15	-	16	ns
		V _{CC} = 4.5 V	-	5	7	-	8	-	8	ns
		V _{CC} = 6 V	-	4	6	-	7	-	7	ns
		V _{CC} = 3.0 V to 3.6 V	-	5	8	-	9	-	10	ns
		V _{CC} = 4.5 V to 5.5 V	-	4	7	-	8	-	8	ns
t _W	pulse width	CP HIGH or LOW; see Fig. 11								
		V _{CC} = 2 V	8	-	-	11	-	12	-	ns
		V _{CC} = 4.5 V	6	-	-	7	-	7	-	ns
		V _{CC} = 6 V	6	-	-	7	-	7	-	ns
		V _{CC} = 3.0 V to 3.6 V	7	-	-	9	-	9	-	ns
		V _{CC} = 4.5 V to 5.5 V	6	-	-	7	-	7	-	ns
		MR LOW; see Fig. 12								
		V _{CC} = 2 V	7	-	-	11	-	12	-	ns
		V _{CC} = 4.5 V	6	-	-	7	-	7	-	ns
		V _{CC} = 6 V	6	-	-	7	-	7	-	ns
		V _{CC} = 3.0 V to 3.6 V	7	-	-	8	-	9	-	ns
		V _{CC} = 4.5 V to 5.5 V	6	-	-	7	-	7	-	ns
t _{rec}	recovery time	MR to CP; see Fig. 12								
		V _{CC} = 2 V	6	-	-	8	-	9	-	ns
		V _{CC} = 4.5 V	3	-	-	4	-	4	-	ns
		V _{CC} = 6 V	3	-	-	4	-	4	-	ns
		V _{CC} = 3.0 V to 3.6 V	5	-	-	6	-	6	-	ns
		V _{CC} = 4.5 V to 5.5 V	3	-	-	4	-	4	-	ns
t _{su}	set-up time	DSA, and DSB to CP; see Fig. 13								
		V _{CC} = 2 V	11	-	-	17	-	17	-	ns
		V _{CC} = 4.5 V	4	-	-	6	-	6	-	ns
		V _{CC} = 6 V	4	-	-	6	-	6	-	ns
		V _{CC} = 3.0 V to 3.6 V	6	-	-	8	-	9	-	ns
		V _{CC} = 4.5 V to 5.5 V	4	-	-	6	-	6	-	ns
t _h	hold time	DSA, and DSB to CP; see Fig. 13								
		V _{CC} = 2 V	0	-	-	0	-	0	-	ns
		V _{CC} = 4.5 V	0	-	-	0	-	0	-	ns
		V _{CC} = 6 V	0	-	-	0	-	0	-	ns
		V _{CC} = 3.0 V to 3.6 V	0	-	-	0	-	0	-	ns
		V _{CC} = 4.5 V to 5.5 V	0	-	-	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	
f _{max}	maximum	CP, see Fig. 11								
	frequency	V _{CC} = 2 V	28	-	-	16	-	15	-	MHz
		V _{CC} = 4.5 V	68	-	-	55	-	50	-	MHz
		V _{CC} = 6 V	97	-	-	75	-	62	-	MHz
		V _{CC} = 3.0 V to 3.6 V	47	-	-	41	-	27	-	MHz
		V _{CC} = 4.5 V to 5.5 V	68	-	-	55	-	50	-	MHz
Cı	input capacitance		-	1.5	-	-	5	-	5	pF
C _{PD}	power dissipation capacitance	$ f_i = 1 \text{ MHz; } C_L = 0 \text{ pF;} $ [4][5] $ V_I = \text{GND to } V_{CC}; $ $ V_{CC} = 2 \text{ V to 6 V} $	-	40	-	-	-	-	-	pF

- [1] Typical values are measured at nominal supply voltage.
- [2] t_{pd} is the same as t_{PHL} and t_{PLH} .
- [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).

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

f_i = input frequency in MHz;

f_o = output frequency in MHz;

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

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V.

[5] All 9 outputs switching.

11.1. Waveforms and test circuit

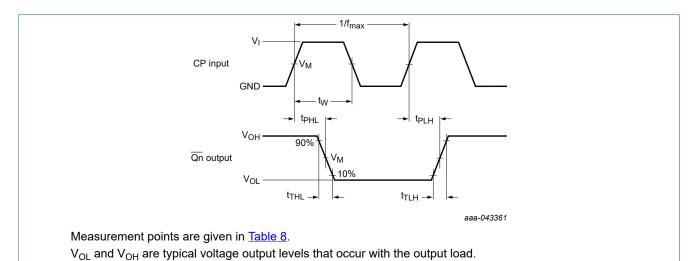


Fig. 11. Waveforms showing the clock (CP) to output (Qn) propagation delays, the clock pulse width, the output transition times and the maximum clock frequency

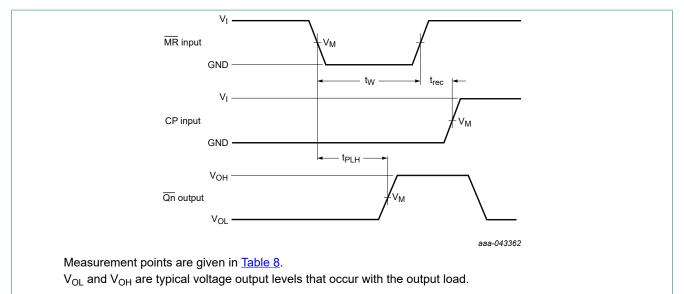


Fig. 12. Waveforms showing the master reset (MR) pulse width, the master reset to output (Qn) propagation delays and the master reset to clock (CP) removal time

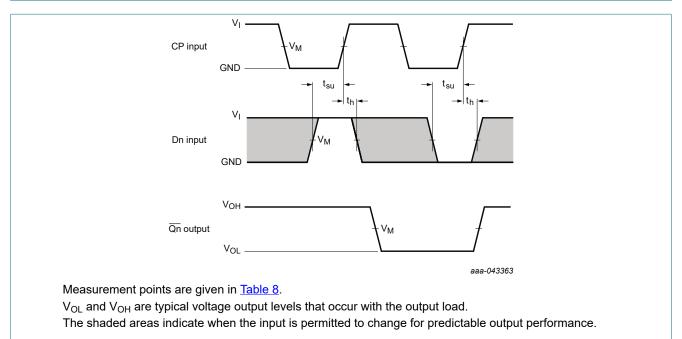
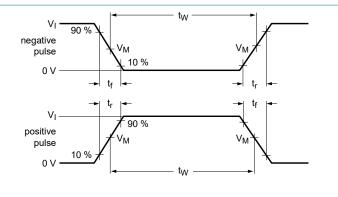
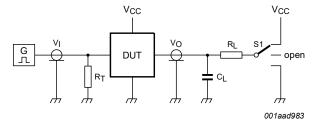


Fig. 13. Waveforms showing the data set-up and hold times for Dn inputs

Table 8. Measurement points

Input	Output
V_{M}	V_{M}
0.5V _{CC}	0.5V _{CC}





Test data is given in Table 9.

Definitions for test circuit:

 C_L = load capacitance including jig and probe capacitance.

R_L = load resistance.

 R_T = termination resistance should be equal to the output impedance Z_o of the pulse generator.

S1 = test selection switch.

Fig. 14. Test circuit for measuring switching times

Table 9. Test data

Input Lo		Load		S1 position			
V_{I}	t _r , t _f	C _L R _L t _P		t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
V _{CC}	2.5 ns	50 pF	1 kΩ	open	GND	V _{CC}	

12. Package outline

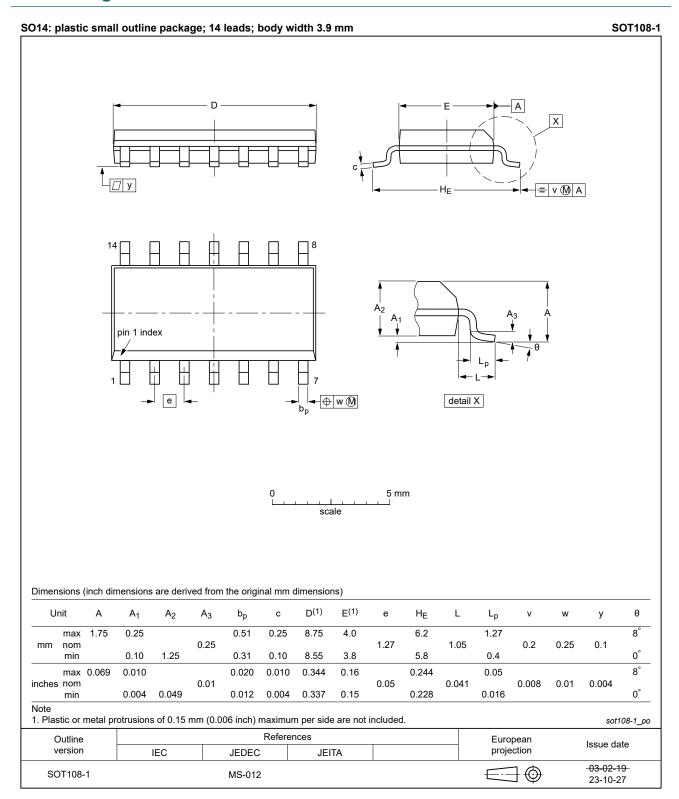


Fig. 15. Package outline SOT108-1 (SO14)

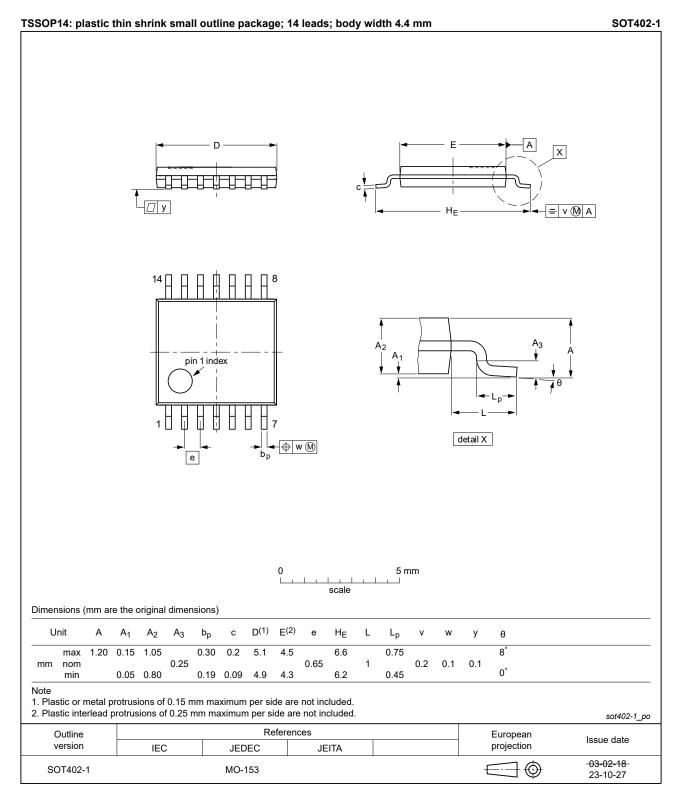


Fig. 16. Package outline SOT402-1 (TSSOP14)

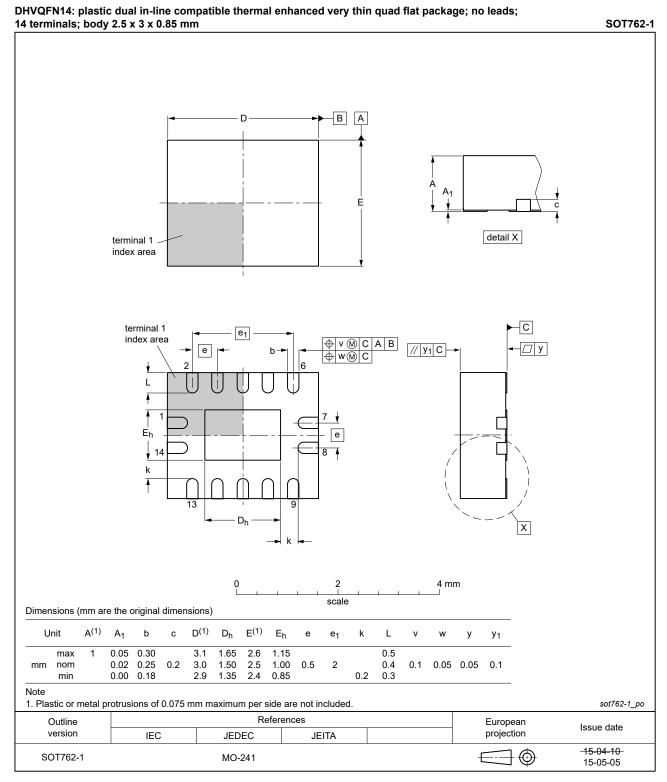


Fig. 17. Package outline SOT762-1 (DHVQFN14)

13. Abbreviations

Table 10. Abbreviations

Acronym	escription			
CDM	arge Device Model			
DUT	Device Under Test			
ESD	ElectroStatic Discharge			
НВМ	Human Body Model			

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HCS264_Q100 v.1	20250605	Product data sheet	-	-

15. 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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