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8-stage shift-and-store bus register Rev. 6 — 31 December 2012

Product data sheet

General description 1.

The 74HC4094; 74HCT4094 is an 8-bit serial-in/serial or parallel-out shift register with a storage register and 3-state outputs. Both the shift and storage register have separate clocks. The device features a serial input (D) and two serial outputs (QS1 and QS2) to enable cascading. Data is shifted on the LOW-to-HIGH transitions of the CP input. Data is available at QS1 on the LOW-to-HIGH transitions of the CP input to allow cascading when clock edges are fast. The same data is available at QS2 on the next HIGH-to-LOW transition of the CP input to allow cascading when clock edges are slow. The data in the shift register is transferred to the storage register when the STR input is HIGH. Data in the storage register appears at the outputs whenever the output enable input (OE) is HIGH. A LOW on OE causes the outputs to assume a high-impedance OFF-state. Operation of the OE input does not affect the state of the registers. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC}.

Features and benefits 2.

- Complies with JEDEC standard JESD7A
- Input levels:
 - For 74HC4094: CMOS level
 - For 74HCT4094: TTL level
- Low-power dissipation
- ESD protection:
 - HBM JESD22-A114F exceeds 2 000 V
 - MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

Applications 3.

- Serial-to-parallel data conversion
- Remote control holding register

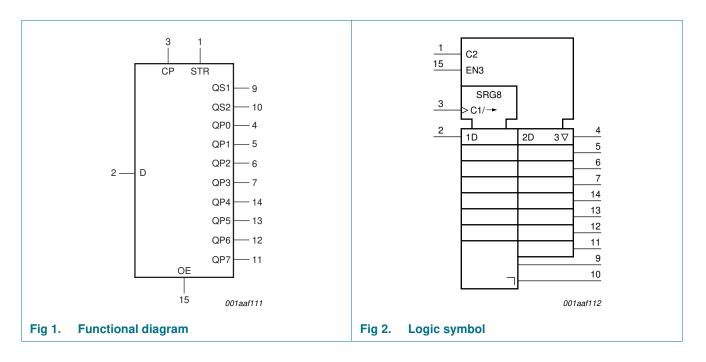


8-stage shift-and-store bus register

Ordering information 4.

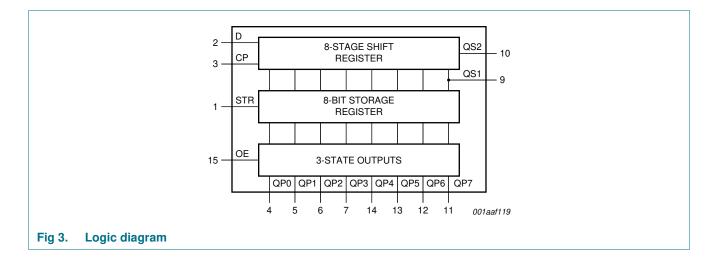
Type number	Package			
	Temperature range	Name	Description	Version
74HC4094N	–40 °C to +125 °C	DIP16	plastic dual in-line package; 16 leads (300 mil)	SOT38-4
74HCT4094N				
74HC4094D	–40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width	SOT109-
74HCT4094D			3.9 mm	
74HC4094DB	–40 °C to +125 °C	SSOP16	plastic shrink small outline package; 16 leads;	SOT338-
74HCT4094DB			body width 5.3 mm	
74HC4094PW	–40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-

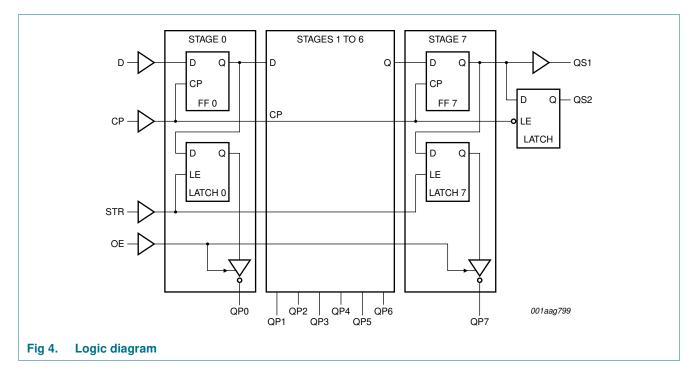
Functional diagram 5.



74HC4094; 74HCT4094

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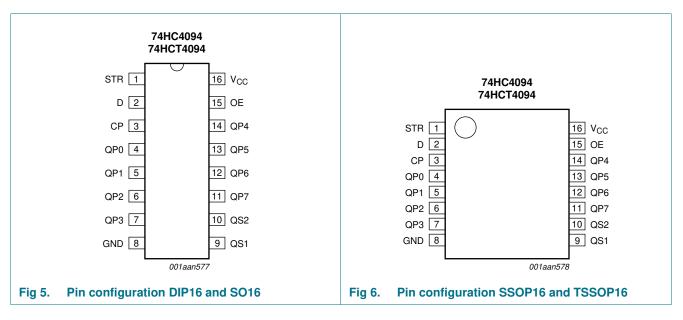




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6. Pinning information

6.1 Pinning



6.2 Pin description

Table 2.	Pin description	
Symbol	Pin	Description
STR	1	strobe input
D	2	data input
CP	3	clock input
QP0 to QP7	7 4, 5, 6, 7, 14, 13, 12, 11	parallel output
V_{SS}	8	ground supply voltage
QS1, QS2	9, 10	serial output
OE	15	output enable input
V _{DD}	16	supply voltage

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7. Functional description

Table 3.Function table

Inputs				Parallel o	utputs	Serial outputs		
СР	OE	STR	D	QP0	QPn	QS1	QS2	
\uparrow	L	х	Х	Z	Z	Q6S	NC	
\downarrow	L	Х	Х	Z	Z	NC	Q7S	
\uparrow	Н	L	Х	NC	NC	Q6S	NC	
\uparrow	Н	Н	L	L	QPn –1	Q6S	NC	
\uparrow	Н	Н	Н	Н	QPn –1	Q6S	NC	
\downarrow	Н	Н	Н	NC	NC	NC	Q7S	

[1] At the positive clock edge, the information in the 7th register stage is transferred to the 8th register stage and the QSn outputs.

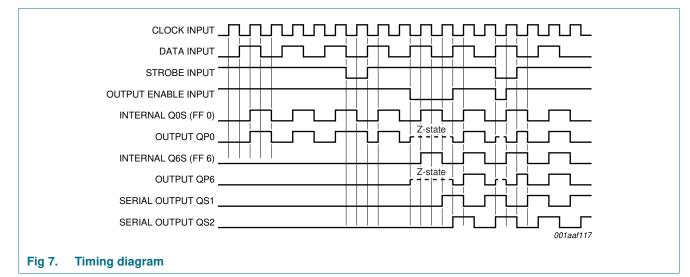
H = HIGH voltage level; L = LOW voltage level; X = don't care;

 \uparrow = positive-going transition; \downarrow = negative-going transition;

Z = HIGH-impedance OFF-state; NC = no change;

Q6S = the data in register stage 6 before the LOW to HIGH clock transition;

 $\ensuremath{\mathsf{Q7S}}$ = the data in register stage 7 before the HIGH to LOW clock transition.



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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	Мах	Unit
V _{CC}	supply voltage		-0.5	+7	V
I _{IK}	input clamping current	$V_{I} < -0.5$ V or $V_{I} > V_{CC}$ + 0.5 V	-	±20	mA
I _{OK}	output clamping current	$V_O < -0.5$ V or $V_O > V_{CC}$ + 0.5 V	-	±20	mA
lo	output current	$V_{\rm O} = -0.5$ V to (V_{\rm CC} + 0.5 V)	-	±25	mA
I _{CC}	supply current		-	+50	mA
I _{GND}	ground current		-	-50	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	DIP16 package	<u>[1]</u> -	750	mW
		SO16, SSOP16 and TSSOP16 packages	[2] _	500	mW

[1] For DIP16 package: P_{tot} derates linearly with 12 mW/K above 70 °C.

[2] For SO16: P_{tot} derates linearly with 8 mW/K above 70 °C.

For SSOP16 and TSSOP16 packages: Ptot derates linearly with 5.5 mW/K above 60 °C.

9. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC	4094		74HC	Г4094		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	+25	+125	-40	+25	+125	°C
$\Delta t / \Delta V$	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

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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 t	o +85 °C	–40 °C to	o +125 °C	Uni
			Min	Тур	Max	Min	Max	Min	Max	
74HC40	94						1			
/ _{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
/ _{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
/ _{ОН}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	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
/ _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	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
	input leakage current	$V_I = V_{CC} \text{ or GND};$ $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μA
DZ	OFF-state output current		-	-	±0.5	-	±5.0	-	±10.0	μA
CC	supply current		-	-	8.0	-	80	-	160	μA
2	input capacitance		-	3.5	-					pF
4HCT4	094									
/ _{IH}	HIGH-level input voltage	V_{CC} = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
/ _{IL}	LOW-level input voltage	V_{CC} = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
он	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -4.0 mA	3.98	4.32	-	3.84	-	3.7	-	V
OL	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_{O} = 20 \ \mu A$	-	0	0.1	-	0.1	-	0.1	V
		$I_{O} = 4.0 \text{ mA}$	-	0.15	0.26		0.33	-	0.4	V

8-stage shift-and-store bus register

Symbol	Parameter	Conditions		25 °C		–40 °C t	o +85 °C	–40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
l _l	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	±0.1	-	±1.0	-	±1.0	μA
I _{OZ}	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 5.5 \text{ V};$ $V_{O} = V_{CC} \text{ or GND per input}$ pin; other inputs at V _{CC} or GND; I_{O} = 0 A	-	-	±0.5	-	±5.0	-	±10	μA
I _{CC}	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = V_{CC} \text{ or } GND; \ I_{O} = 0 \ A; \\ V_{CC} = 5.5 \ V \end{array}$	-	-	8.0	-	80	-	160	μA
ΔI _{CC}	additional supply current	$\label{eq:VI} \begin{array}{l} V_{I} = V_{CC} - 2.1 \ \text{V};\\ \text{other inputs at } V_{CC} \ \text{or GND};\\ V_{CC} = 4.5 \ \text{V to } 5.5 \ \text{V};\\ I_{O} = 0 \ \text{A} \end{array}$								
		per input pin; STR input	-	100	360	-	450	-	490	μA
		per input pin; OE input	-	150	540	-	675	-	735	μA
		per input pin; CP input	-	150	540	-	675	-	735	μA
		per input pin; D input	-	40	144	-	180	-	196	μA
CI	input capacitance		-	3.5	-					pF

Table 6. Static characteristics ...continued

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

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11. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); $C_L = 50 \text{ pF}$ unless otherwise specified; for test circuit see Figure 12.

Symbol	Parameter	Conditions			25 °C		-40 °C 1	to +85 °C	-40 °C t	to +125 °C	Uni
				Min	Тур	Max	Min	Max	Min	Max	
74HC409	94										
pd	propagation	CP to QS1; see Figure 8	[1]								
	delay	$V_{CC} = 2.0 V$		-	50	150	-	190	-	225	ns
		$V_{CC} = 4.5 V$		-	18	30	-	38	-	45	ns
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	15	-	-	-	-	-	ns
		$V_{CC} = 6.0 V$		-	14	26	-	33	-	38	ns
		CP to QS2; see Figure 8	[1]								
		$V_{CC} = 2.0 V$		-	44	135	-	170	-	205	ns
		$V_{CC} = 4.5 V$		-	16	27	-	34	-	41	ns
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	13	-	-	-	-	-	ns
		$V_{CC} = 6.0 V$		-	13	23	-	29	-	35	ns
		CP to QPn; see Figure 8	[1]								
		$V_{CC} = 2.0 V$		-	63	195	-	245	-	295	ns
		$V_{CC} = 4.5 V$		-	23	39	-	49	-	59	ns
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	20	-	-	-	-	-	ns
		$V_{CC} = 6.0 V$		-	18	33	-	42	-	50	ns
		STR to QPn; see Figure 9	[1]								
		$V_{CC} = 2.0 V$		-	58	180	-	225	-	270	ns
		$V_{CC} = 4.5 V$		-	21	36	-	45	-	54	ns
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	18	-	-	-	-	-	ns
		$V_{CC} = 6.0 V$		-	17	31	-	38	-	46	ns
en	enable time	OE to QPn; see Figure 11	[2]								
		$V_{CC} = 2.0 V$		-	55	175	-	220	-	265	ns
		$V_{CC} = 4.5 V$		-	20	35	-	44	-	53	ns
		$V_{CC} = 6.0 V$		-	16	30	-	37	-	45	ns
dis	disable time	OE to QPn; see Figure 11	[3]								
		$V_{CC} = 2.0 V$		-	41	125	-	155	-	190	ns
		$V_{CC} = 4.5 V$		-	15	25	-	31	-	38	ns
		$V_{CC} = 6.0 V$		-	12	21	-	26	-	32	ns
	transition time	QPn and QSn; see <u>Figure 8</u>	<u>[4]</u>								
		$V_{CC} = 2.0 V$		-	19	75	-	95	-	110	ns
		$V_{CC} = 4.5 V$		-	7	15	-	19	-	22	ns
		$V_{CC} = 6.0 V$		-	6	13	-	16	-	19	ns

8-stage shift-and-store bus register

Symbol	Parameter	Conditions		25 °C		–40 °C	to +85 °C	–40 °C 1	to +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
tw	pulse width	CP HIGH or LOW; see <u>Figure 8</u>			1	1				
		$V_{CC} = 2.0 V$	80	14	-	100	-	120	-	ns
		$V_{CC} = 4.5 V$	16	5	-	20	-	24	-	ns
		$V_{CC} = 6.0 V$	14	4	-	17	-	20	-	ns
		STR HIGH; see Figure 9								
		$V_{CC} = 2.0 V$	80	14	-	100	-	120	-	ns
		$V_{CC} = 4.5 V$	16	5	-	20	-	24	-	ns
		$V_{CC} = 6.0 V$	14	4	-	17	-	20	-	ns
su	set-up time	D to CP; see Figure 10								
		$V_{CC} = 2.0 V$	50	14	-	65	-	75	-	ns
		$V_{CC} = 4.5 V$	10	5	-	13	-	15	-	ns
		$V_{CC} = 6.0 V$	9	4	-	11	-	13	-	ns
		CP to STR; see Figure 9								
		$V_{CC} = 2.0 V$	100	28	-	125	-	150	-	ns
		$V_{CC} = 4.5 V$	20	10	-	25	-	30	-	ns
		$V_{CC} = 6.0 V$	17	8	-	21	-	26	-	ns
h	hold time	D to CP; see Figure 10								
		$V_{CC} = 2.0 V$	3	-6	-	3	-	3	-	ns
		$V_{CC} = 4.5 V$	3	-2	-	3	-	3	-	ns
		$V_{CC} = 6.0 V$	3	-2	-	3	-	3	-	ns
		CP to STR; see Figure 9								
		$V_{CC} = 2.0 V$	0	-14	-	0	-	0	-	ns
		$V_{CC} = 4.5 V$	0	-5	-	0	-	0	-	ns
		$V_{CC} = 6.0 V$	0	-4	-	0	-	0	-	ns
max	maximum	CP; see Figure 8								
	frequency	$V_{CC} = 2.0 V$	6.0	28	-	4.8	-	4.0	-	Мŀ
		$V_{CC} = 4.5 V$	30	87	-	24	-	20	-	Мŀ
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$	-	95	-	-	-	-	-	MH
		$V_{CC} = 6.0 V$	35	103	-	28	-	24	-	MH
C _{PD}	power dissipation capacitance	$C_L = 50 \text{ pF}; f = 1 \text{ MHz};$ $V_I = \text{GND to } V_{\text{CC}}$	<u>[5]</u>	83	-	-	-	-	-	pF

Table 7. Dynamic characteristics ... continued

8-stage shift-and-store bus register

Symbol	Parameter	Conditions			25 °C		_40 °C	to +85 °C	–40 °C te	o +125 °C	Uni
				Min	Тур	Max	Min	Max	Min	Max	
74HCT40	094										
t _{pd}	propagation	CP to QS1; see Figure 8	[1]								
	delay	$V_{CC} = 4.5 V$		-	23	39	-	49	-	59	ns
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	19	-	-	-	-	-	ns
		CP to QS2; see Figure 8	[1]								
		$V_{CC} = 4.5 V$		-	21	36	-	45	-	54	ns
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	18	-	-	-	-	-	ns
		CP to QPn; see Figure 8	[1]								
		$V_{CC} = 4.5 V$		-	25	43	-	54	-	65	ns
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	21	-	-	-	-	-	ns
		STR to QPn; see Figure 9	[1]								
		$V_{CC} = 4.5 V$		-	22	39	-	49	-	59	ns
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	19	-	-	-	-	-	ns
en	enable time	OE to QPn; see Figure 11	[2]								
		$V_{CC} = 4.5 V$		-	20	35	-	44	-	53	ns
dis	disable time	OE to QPn; see Figure 11	[3]								
		$V_{CC} = 4.5 V$		-	21	35	-	44	-	53	ns
t	transition time	QPn and QSn; see <u>Figure 8</u>	<u>[4]</u>								
		$V_{CC} = 4.5 V$		-	7	15	-	19	-	22	ns
W	pulse width	CP HIGH or LOW; see <u>Figure 8</u>									
		$V_{CC} = 4.5 V$		16	7	-	20	-	24	-	ns
		STR HIGH; see Figure 9									
		$V_{CC} = 4.5 V$		16	5	-	20	-	24	-	ns
su	set-up time	Dn to CP; see Figure 10									
		$V_{CC} = 4.5 V$		10	4	-	13	-	15	-	ns
		CP to STR; see Figure 9									
		$V_{CC} = 4.5 V$		20	9	-	25	-	30	-	ns
t _h	hold time	Dn to CP; see Figure 10									
		$V_{CC} = 4.5 V$		4	0	-	4	-	4	-	ns
		CP to STR; see Figure 9									
		$V_{CC} = 4.5 V$		0	-4	-	0	-	0	-	ns
max	maximum	CP; see Figure 8									
	frequency	$V_{CC} = 4.5 V$		30	80	-	24	-	20	-	Мŀ
		$V_{CC} = 5 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	86	-	-	-	-	-	Мŀ
C _{PD}	power dissipation capacitance	$C_L = 50 \text{ pF}; f = 1 \text{ MHz};$ V _I = GND to V _{CC}	<u>[5]</u>	-	92	-	-	-	-	-	pF

Table 7. Dynamic characteristics ... continued

[1] t_{pd} is the same as t_{PLH} and t_{PHL} .

74HC_HCT4094

74HC4094; 74HCT4094

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

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

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

12. Waveforms

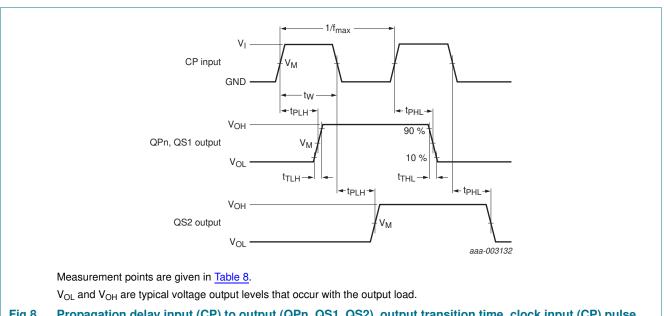
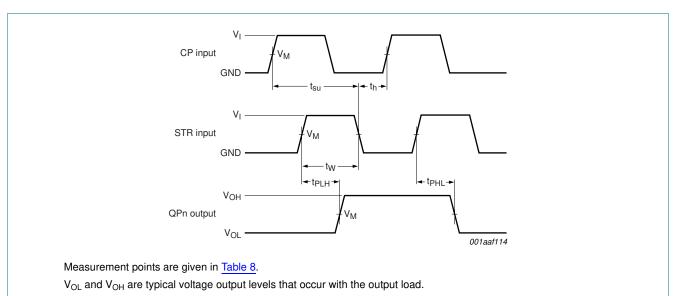


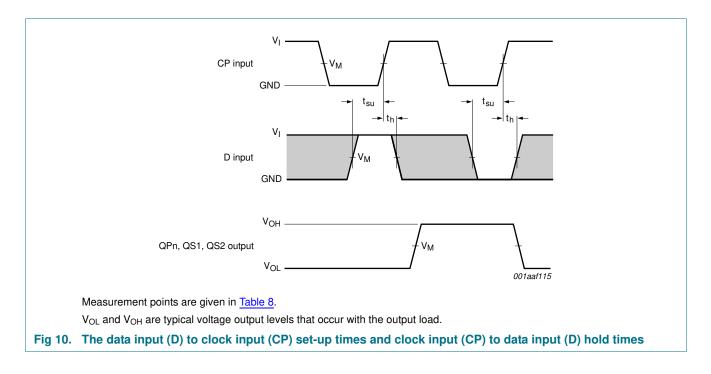
Fig 8. Propagation delay input (CP) to output (QPn, QS1, QS2), output transition time, clock input (CP) pulse width and the maximum frequency (CP)

74HC4094; 74HCT4094

8-stage shift-and-store bus register







74HC4094; 74HCT4094

8-stage shift-and-store bus register

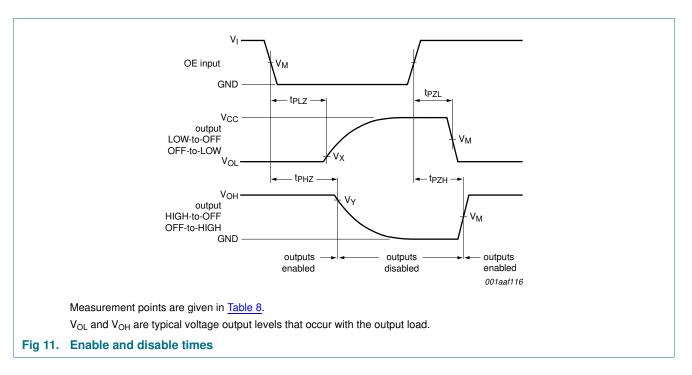


Table 8.Measurement points

Туре	Input	Output		
	V _M	V _M	V _X	V _Y
74HC4094	0.5V _{CC}	0.5V _{CC}	0.1V _{OH}	0.9V _{OH}
74HCT4094	1.3 V	1.3 V	0.1V _{OH}	0.9V _{OH}

74HC4094; 74HCT4094

8-stage shift-and-store bus register

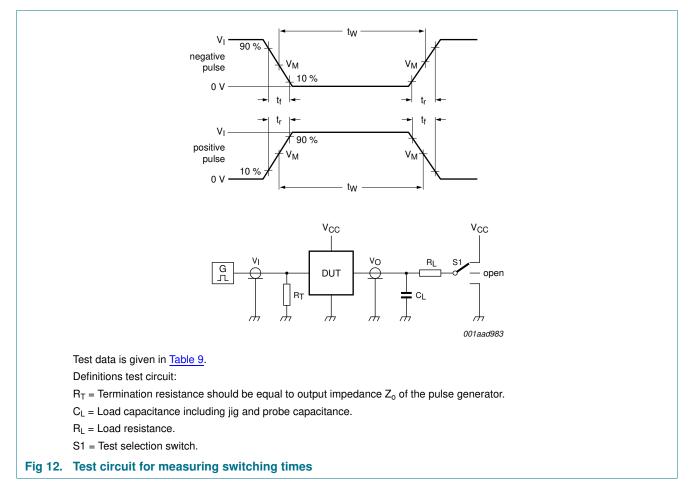


Table 9. Test data

Туре	Input		Load		S1 position			
	VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
74HC4094	V _{CC}	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	
74HCT4094	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	

8-stage shift-and-store bus register

13. Package outline

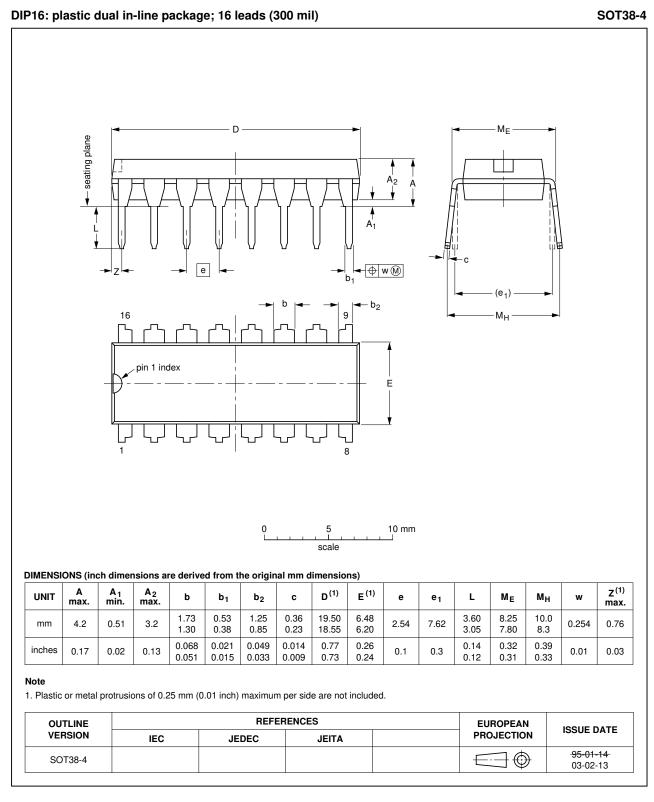


Fig 13. Package outline SOT38-4 (DIP16)

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74HC HCT4094

8-stage shift-and-store bus register

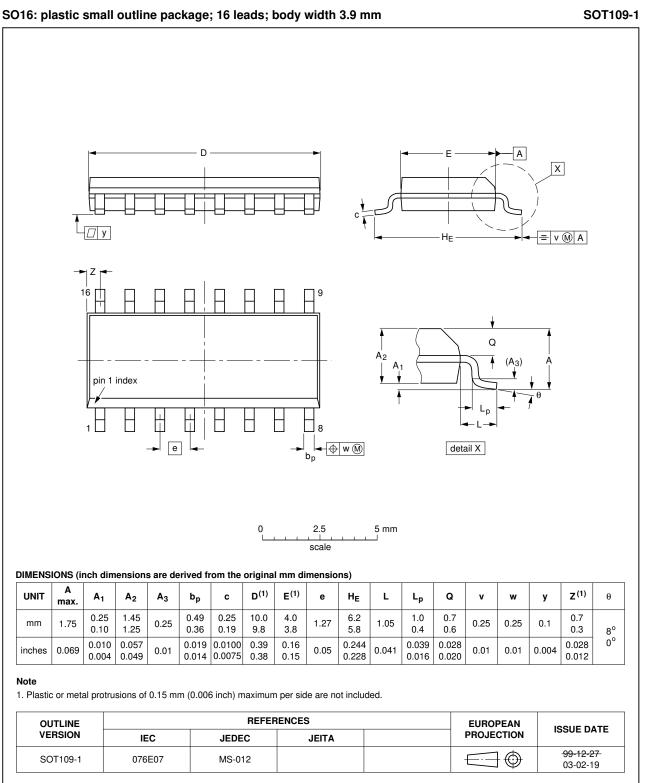


Fig 14. Package outline SOT109-1 (SO16)

74HC HCT4094

8-stage shift-and-store bus register

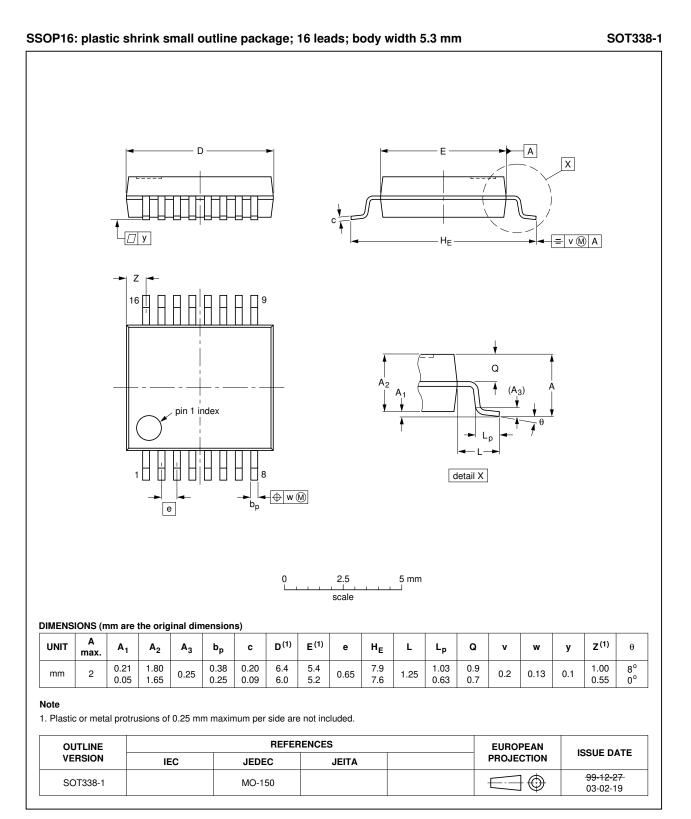


Fig 15. Package outline SOT338-1 (SSOP16)

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74HC_HCT4094

8-stage shift-and-store bus register

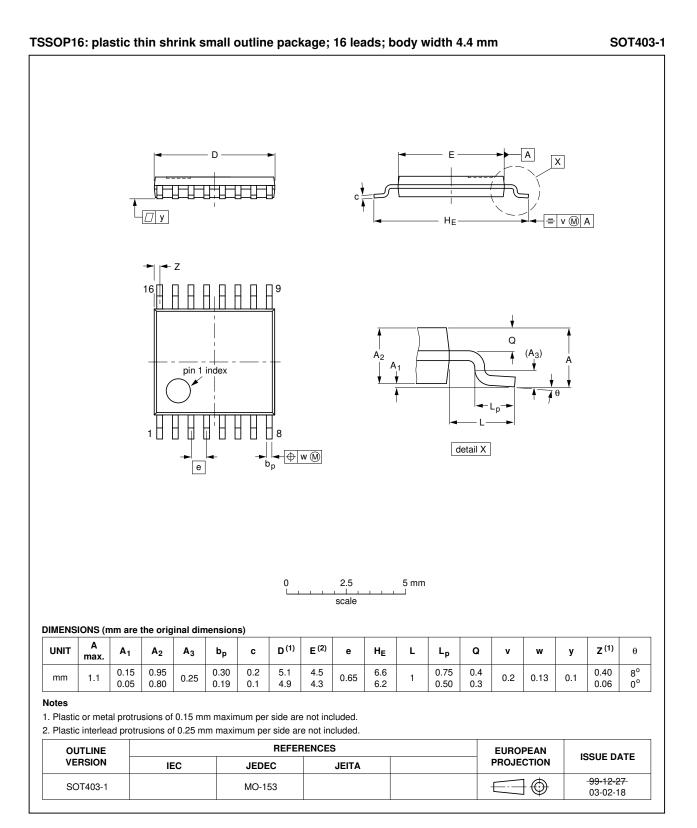


Fig 16. Package outline SOT403-1 (TSSOP16)

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74HC_HCT4094



8-stage shift-and-store bus register

14. Abbreviations

Table 10. Abbreviations				
Acronym	Description			
CMOS	Complementary Metal Oxide Semiconductor			
ESD	ElectroStatic Discharge			
HBM	Human Body Model			
MM	Machine Model			

15. Revision history

Table 11.Revision history

	-			
Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT4094 v.6	20121231	Product data sheet	-	74HC_HCT4094 v.5
Modifications:	General de	escription updated.		
74HC_HCT4094 v.5	20120628	Product data sheet	-	74HC_HCT4094 v.4
Modifications:	• V_X and V_Y	measurement points adde	ed to Table 8.	
74HC_HCT4094 v.4	20111219	Product data sheet	-	74HC_HCT4094 v.3
Modifications:	 Legal page 	es updated.		
74HC_HCT4094 v.3	20110214	Product data sheet	-	74HC_HCT4094_CNV v.2
74HC_HCT4094_CNV v.2	19970901	Product specification	-	-

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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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