Product data sheet

1. General description

The 74LV4094 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 V_{CC} .

2. Features and benefits

- Optimized for low voltage applications over a wide supply voltage range from 1.0 V to 3.6 V
- Accepts TTL input levels between V_{CC} = 2.7 V and V_{CC} = 3.6 V
- Typical output ground bounce < 0.8 V at V_{CC} = 3.3 V and T_{amb} = 25 °C
- Typical HIGH-level output voltage (V_{OH}) undershoot: > 2 V at V_{CC} = 3.3 V and T_{amb} = 25 °C
- · CMOS low power dissipation
- · Direct interface with TTL levels
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
- ESD protection:
- HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

3. Applications

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

4. Ordering information

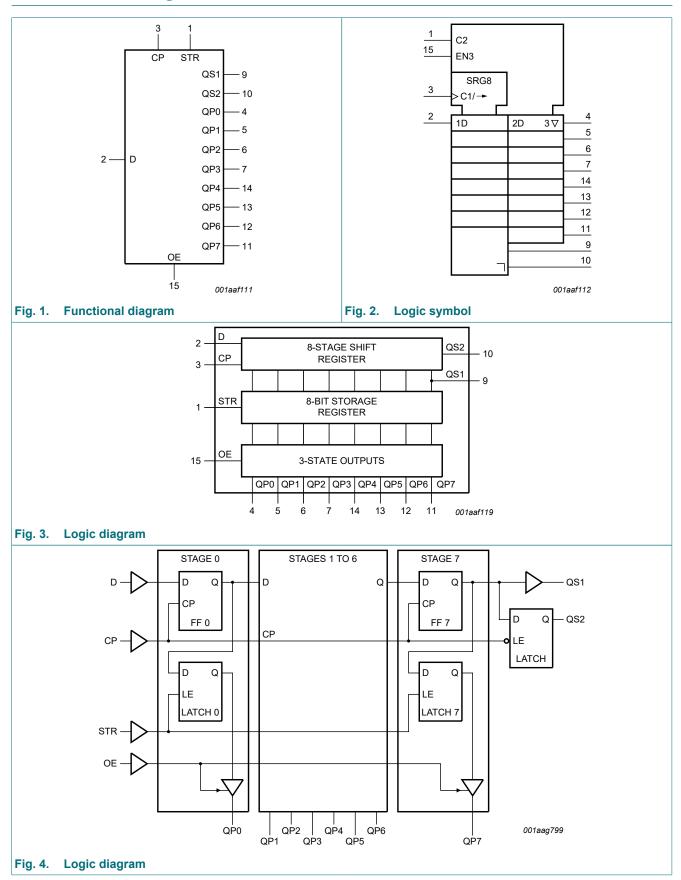
Table 1. Ordering information

Type number	Package	Package							
	Temperature range	Name	Description	Version					
74LV4094D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1					
74LV4094PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1					



8-stage shift-and-store bus register

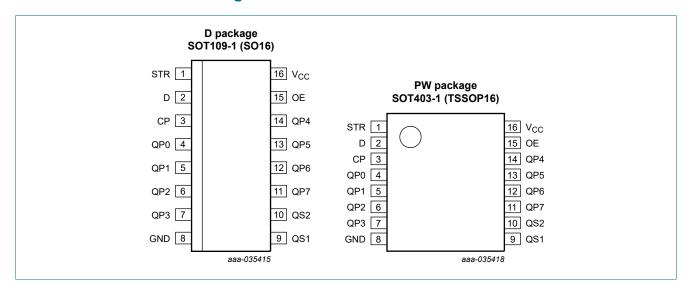
5. Functional diagram



8-stage shift-and-store bus register

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
СР	3	clock input
QP0 to QP7	4, 5, 6, 7, 14, 13, 12, 11	parallel output
GND	8	ground supply voltage
QS1, QS2	9,10	serial output
OE	15	output enable input
V _{CC}	16	supply voltage

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8-stage shift-and-store bus register

7. Functional description

Table 3. Function table

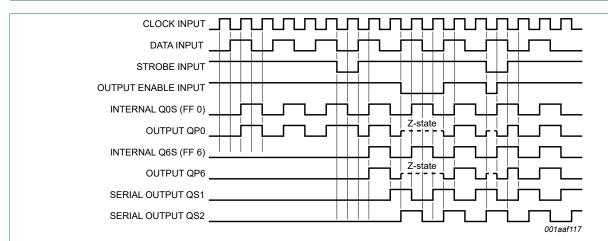
H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = HIGH-impedance OFF-state; NC = no change;

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

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

Q7S = the data in register stage 7 before the HIGH to LOW clock transition.

Inputs			Parallel o	outputs	Serial out	Serial outputs	
СР	OE	STR	D	QP0	QPn	QS1	QS2
↑	L	X	Х	Z	Z	Q6S	NC
\downarrow	L	X	Х	Z	Z	NC	Q7S
\uparrow	Н	L	X	NC	NC	Q6S	NC
↑	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



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

Fig. 5. Timing diagram

Product data sheet

8-stage shift-and-store bus register

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	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$	-	±20	mA
I _{OK}	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$	-	±50	mA
Io	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-	±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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ [1]	-	500	mW

^[1] For SOT109-1 (SO16) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT403-1 (TSSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C.

9. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage	[1]	1.0	3.3	3.6	V
VI	input voltage		0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.0 V to 2.0 V	-	-	500	ns/V
		V _{CC} = 2.0 V to 2.7 V	-	-	200	ns/V
		V _{CC} = 2.7 V to 3.6 V	-	-	100	ns/V

^[1] The static characteristics are guaranteed from V_{CC} = 1.2 V to V_{CC} = 5.5 V, but LV devices are guaranteed to function down to V_{CC} = 1.0 V (with input levels GND or V_{CC}).

8-stage shift-and-store bus register

10. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions		°C to 85	°C	-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH-level input	V _{CC} = 1.2 V	V _{CC}	0.6	-	V _{CC}	-	V
	voltage	V _{CC} = 2.0 V	1.4	-	-	1.4	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V _{IL}	LOW-level input	V _{CC} = 1.2 V	-	0.4	GND	-	GND	V
	voltage	V _{CC} = 2.0 V	-	-	0.6	-	0.6	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V _{OH}	HIGH-level output	V _I = V _{IH} or V _{IL} ; all pins						
	voltage	I _O = -100 μA; V _{CC} = 1.2 V	-	1.2	-	-	-	V
		I _O = -100 μA; V _{CC} = 2.0 V	1.8	2.0	-	1.8	-	V
		I _O = -100 μA; V _{CC} = 2.7 V	2.5	2.7	-	2.5	-	V
		I _O = -100 μA; V _{CC} = 3.0 V	2.8	3.0	-	2.8	-	V
		V _I = V _{IH} or V _{IL} ; pins QPn						
		I _O = -6 mA; V _{CC} = 3.0 V	2.40	2.82	-	2.20	-	V
V _{OL}	LOW-level output	V _I = V _{IH} or V _{IL} ; all pins						
	voltage	I _O = 100 μA; V _{CC} = 1.2 V	-	0	-	-	-	V
		I _O = 100 μA; V _{CC} = 2.0 V	-	0	0.2	-	0.2	V
		I _O = 100 μA; V _{CC} = 2.7 V	-	0	0.2	-	0.2	V
		I _O = 100 μA; V _{CC} = 3.0 V	-	0	0.2	-	0.2	V
		V _I = V _{IH} or V _{IL} ; pins QPn						
		I _O = 6 mA; V _{CC} = 3.0 V	-	0.25	0.40	-	0.50	V
l _l	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 3.6 \text{ V}$	-	-	±1.0	-	±1.0	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 3.6 \text{ V}$	-	-	±5.0	-	±10.0	μΑ
I _{CC}	supply current	$V_1 = V_{CC}$ or GND; $I_0 = 0$ A; $V_{CC} = 3.6 \text{ V}$	-	-	20.0	-	160	μA
ΔI _{CC}	additional supply current	per input; V _I = V _{CC} - 0.6 V; V _{CC} = 2.7 V to 3.6 V	-	-	500.0	-	850	μA
Cı	input capacitance		-	3.5	-	-	-	pF

^[1] All typical values are measured at T_{amb} = 25 °C.

8-stage shift-and-store bus register

11. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); C_L = 50 pF unless otherwise specified; for test circuit see Fig. 10.

Symbol	Parameter Conditions			-40	°C to 85	°C	-40 °C t	o +125 °C	Unit
				Min	Typ[1]	Max	Min	Max	ns n
t _{pd}	propagation	CP to QS1; see Fig. 6	[2]						
	delay	V _{CC} = 1.2 V		-	90	-	-	-	ns
		V _{CC} = 2.0 V		-	31	58	-	70	ns
		V _{CC} = 2.7 V		-	23	43	-	51	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	17	34	-	41	ns
		$V_{CC} = 3.3 \text{ V}; C_L = 15 \text{ pF}$		-	14	-	-	-	ns
		CP to QS2; see Fig. 6	[2]						
		V _{CC} = 1.2 V		-	80	-	-	-	ns
		V _{CC} = 2.0 V		-	27	51	-	61	ns
		V _{CC} = 2.7 V		-	20	38	-	45	ns
		V _{CC} = 3.0 V to 3.6 V		-	14	30	-	36	ns
		$V_{CC} = 3.3 \text{ V}; C_L = 15 \text{ pF}$	[3]	-	13	-	-	-	ns
		CP to QPn; see Fig. 6	[2]						
		V _{CC} = 1.2 V		-	115	-	-	-	ns
		V _{CC} = 2.0 V		-	39	75	-	90	ns
		V _{CC} = 2.7 V		-	29	55	-	66	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	22	44	-	53	ns
		$V_{CC} = 3.3 \text{ V}; C_L = 15 \text{ pF}$		-	18	-	-	-	ns
		STR to QPn; see Fig. 7	[2]						
		V _{CC} = 1.2 V		-	105	-	-	-	ns
		V _{CC} = 2.0 V		-	36	68	-	82	ns
		V _{CC} = 2.7 V		-	26	50	-	60	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	20	40	-	48	ns
		$V_{CC} = 3.3 \text{ V}; C_L = 15 \text{ pF}$		-	17	-	-	-	ns
t _{en}	enable time	OE to QPn; see Fig. 8	[2]						
		V _{CC} = 1.2 V		-	100	-	-	-	ns
		V _{CC} = 2.0 V		-	34	65	-	77	ns
		V _{CC} = 2.7 V		-	25	48	-	56	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	19	38	-	45	ns
t _{dis}	disable time	OE to QPn; see Fig. 8	[2]						
		V _{CC} = 1.2 V		-	65	-	-	-	ns
		V _{CC} = 2.0 V		-	24	40	-	49	ns
		V _{CC} = 2.7 V		-	18	32	-	37	ns
ı		V _{CC} = 3.0 V to 3.6 V	[3]	-	14	26	-	30	ns

8-stage shift-and-store bus register

Symbol	Parameter	rameter Conditions		-40	°C to 85	°C	-40 °C t	-40 °C to +125 °C	
				Min	Typ[1]	Max	Min	Max	
t _W	pulse width	CP HIGH or LOW; see Fig. 6							
		V _{CC} = 2.0 V		34	9	-	41	-	ns
		V _{CC} = 2.7 V		25	6	-	30	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	20	5	-	24	-	ns
		STR HIGH; see Fig. 7							
		V _{CC} = 2.0 V		34	9	-	41	-	ns
		V _{CC} = 2.7 V		25	6	-	30	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	20	5	-	24	-	ns
t _{su}	set-up time	D to CP; see Fig. 9							
		V _{CC} = 1.2 V		-	25	-	-	-	ns
		V _{CC} = 2.0 V		22	9	-	26	-	ns
		V _{CC} = 2.7 V		16	6	-	19	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	13	5	-	15	-	ns
		CP to STR; see Fig. 7							
		V _{CC} = 1.2 V		-	50	-	-	-	ns
		V _{CC} = 2.0 V		43	17	-	51	-	ns
		V _{CC} = 2.7 V		31	13	-	38	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	25	10	-	30	-	ns
t _h	hold time	D to CP; see Fig. 9							
		V _{CC} = 1.2 V		-	-10	-	-	-	ns
		V _{CC} = 2.0 V		5	-4	-	+5	-	ns
		V _{CC} = 2.7 V		5	-3	-	+5	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	5	-2	-	+5	-	ns
		CP to STR; see Fig. 7							
		V _{CC} = 1.2 V		-	-25	-	-	-	ns
		V _{CC} = 2.0 V		5	-9	-	+5	-	ns
		V _{CC} = 2.7 V		5	-6	-	+5	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	5	-5	-	+5	-	ns
f _{max}	maximum	CP; see Fig. 6							
	frequency	V _{CC} = 2.0 V		14	52	-	12	-	MHz
		V _{CC} = 2.7 V		19	70	-	16	-	MHz
		V _{CC} = 3.0 V to 3.6 V	[3]	24	87	-	20	-	MHz
		V_{CC} = 3.3 V; C_L = 15 pF		-	95	-	-	-	MHz
C _{PD}	power dissipation capacitance	$C_L = 50 \text{ pF}; f = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	[4]	-	83	-	-	-	pF

All typical values are measured at T_{amb} = 25 °C.

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;

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

74LV4094

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 ^[2] t_{pd} is the same as t_{PLH} and t_{PHL}; t_{en} is the same as t_{PZH} and t_{PZL}; t_{dis} is the same as t_{PLZ} and t_{PHZ}.
 [3] All typical values are measured at V_{CC} = 3.3 V.
 [4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).
 P_D = C_{PD} × V_{CC}² × f_i × N + ∑(C_L × V_{CC}² × f_o) where:

8-stage shift-and-store bus register

11.1. Waveforms and test circuit

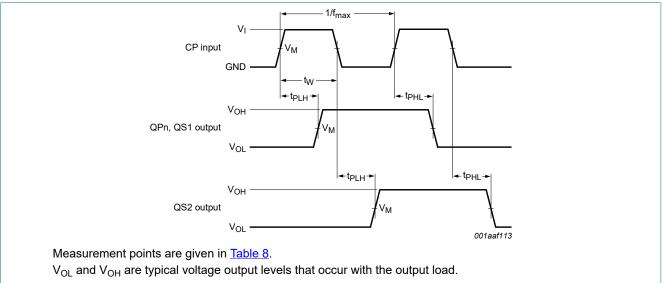
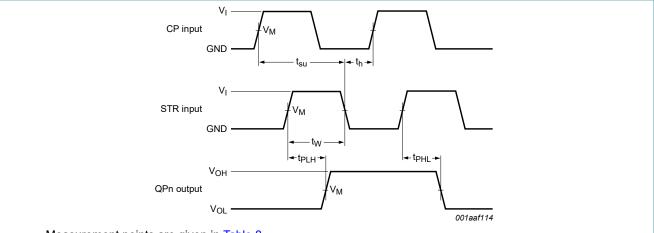


Fig. 6. Propagation delay input (CP) to output (QPn, QS1, QS2), output transition time, clock input (CP) pulse width and the maximum frequency (CP)



Measurement points are given in Table 8.

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

Fig. 7. Propagation delay strobe input (STR) to output (QPn), strobe input (STR) pulse width and the clock set-up and hold times for strobe input

8-stage shift-and-store bus register

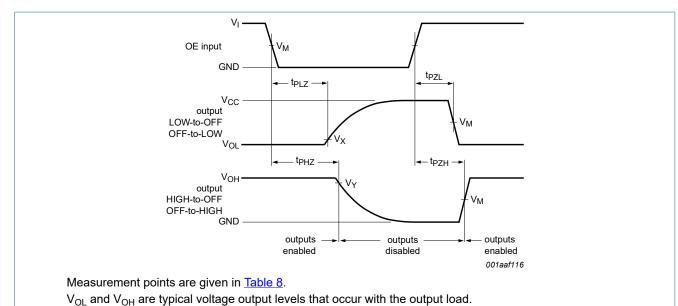


Fig. 8. Enable and disable times

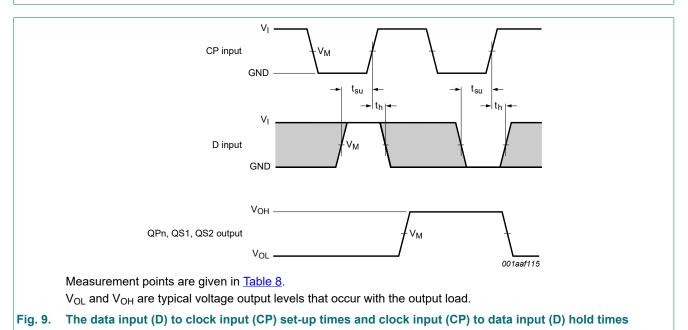
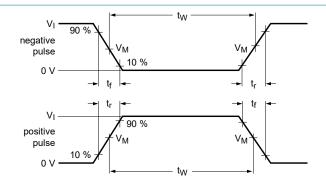
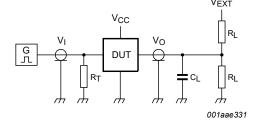


Table 8. Measurement points

Supply voltage	Input	Output				
V _{CC}	V _M	V _M	V _X	V _Y		
< 2.7 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.1V _{CC}	V _{OH} - 0.1V _{CC}		
2.7 V to 3.6 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V		

8-stage shift-and-store bus register





Test data is given in Table 9.

Definitions for test circuit:

R_L = Load resistance;

 C_L = Load capacitance including jig and probe capacitance;

R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator;

V_{EXT} = External voltage for measuring switching times

Fig. 10. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	Input		Load		V _{EXT}		
V _{CC}	Vı	t _r , t _f	C _L	R _L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
< 2.7 V	V _{CC}	≤ 2.5 ns	50 pF	1 kΩ	open	GND	2V _{CC}
2.7 V to 3.6 V	2.7 V	≤ 2.5 ns	15 pF, 50 pF	1 kΩ	open	GND	2V _{CC}

8-stage shift-and-store bus register

12. Package outline

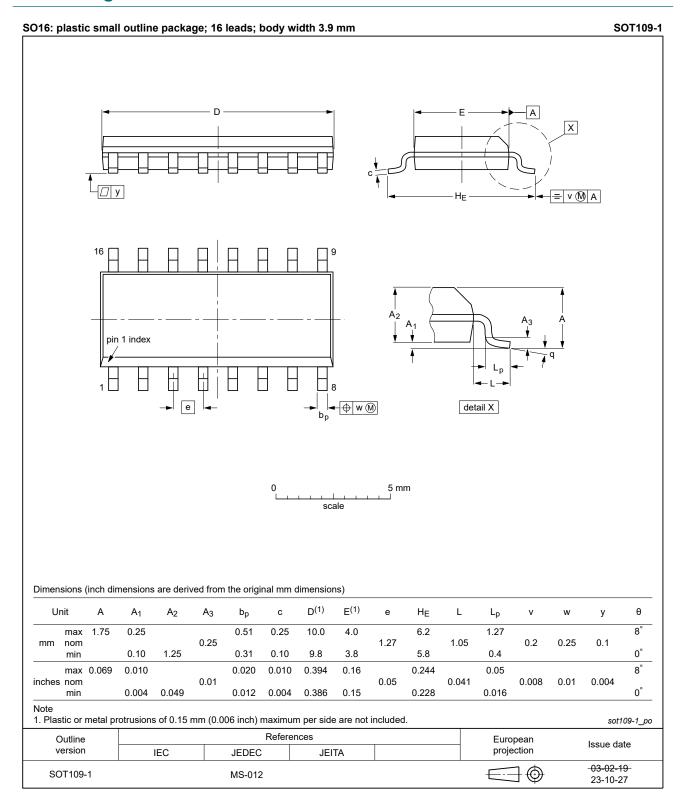


Fig. 11. Package outline SOT109-1 (SO16)

8-stage shift-and-store bus register

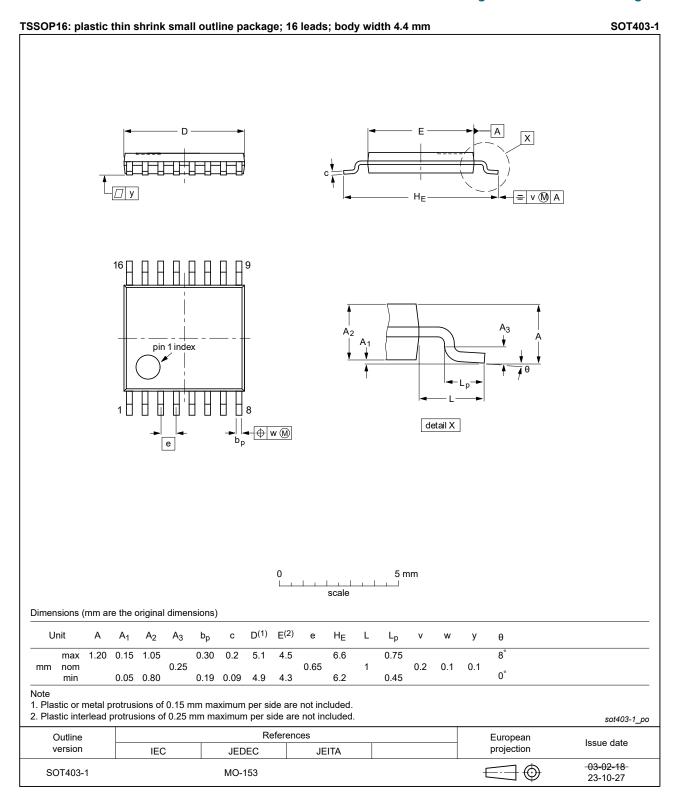


Fig. 12. Package outline SOT403-1 (TSSOP16)

8-stage shift-and-store bus register

13. Abbreviations

Table 10. Abbreviations

Acronym	Description
ANSI	American National Standards Institute
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
ESDA	ElectroStatic Discharge Association
НВМ	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV4094 v.9	20240528	Product data sheet	-	74LV4094 v.8
Modifications:	and MO-15 • Section 2: E		d according to the la	
74LV4094 v.8	20210318	Product data sheet	-	74LV4094 v.7
Modifications:	Type numb	er 74LV4094DB (SOT338	3-1 / SSOP16) adde	ed.
74LV4094 v.7	20210205	Product data sheet	-	74LV4094 v.6
Modifications:	• <u>Section 1</u> a	er 74LV4094DB (SOT338 nd <u>Section 2</u> updated. Derating values for P _{tot} tot	,	
74LV4094 v.6	20181114	Product data sheet	-	74LV4094 v.5
Modifications:	guidelines	of this data sheet has been of Nexperia. have been adapted to the cted.	· ·	
74LV4094 v.5	20160318	Product data sheet	-	74LV4094 v.4
Modifications:	Type numb	er 74LV4094N (SOT38-4)	removed.	
74LV4094 v.4	20111219	Product data sheet	-	74LV4094 v.3
Modifications:	Legal page	s updated.	•	
74LV4094 v.3	20110307	Product data sheet	-	74LV4094 v.2
74LV4094 v.2	20060629	Product data sheet	-	74LV4094 v.1
74LV4094 v.1	19980623	Product specification	-	-

8-stage shift-and-store bus register

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.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
- The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at https://www.nexperia.com.

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8-stage shift-and-store bus register

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