74LVC1G14

Single Schmitt-trigger inverter

Rev. 15 — 8 June 2018 Product data sheet

1 General description

The 74LVC1G14 provides the inverting buffer function with Schmitt-trigger input. It is capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

The input can be driven from either 3.3 V or 5 V devices. This feature allows the use of this device in a mixed 3.3 V and 5 V environment. Schmitt-trigger action at the input makes the circuit tolerant for slower input rise and fall time.

This device is fully specified for partial power-down applications using I_{OFF}. The I_{OFF} circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

2 Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- High noise immunity
- Complies with JEDEC standard:
  - JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8-B/JESD36 (2.7 V to 3.6 V).
- ±24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Unlimited rise and fall times
- Input accepts voltages up to 5 V
- Multiple package options
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 Class 2 exceeds 2000 V
  - MM: JESD22-A115-A exceeds 200 V.
- Specified from -40 °C to +85 °C and -40 °C to +125 °C.

3 Applications

- Wave and pulse shaper
- Astable multivibrator
- Monostable multivibrator

nexperia

4 Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC1G14GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1
74LVC1G14GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753
74LVC1G14GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm	SOT886
74LVC1G14GF	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm	SOT891
74LVC1G14GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm	SOT1115
74LVC1G14GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm	SOT1202
74LVC1G14GX	-40 °C to +125 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 x 0.8 x 0.35 mm	SOT1226
74LVC1G14GX4	-40 °C to +125 °C	X2SON4	plastic thermal enhanced extremely thin small outline package; no leads; 4 terminals; body 0.6 x 0.6 x 0.32 mm	SOT1269-2

5 Marking

Table 2. Marking

Type number	Marking code [1]
74LVC1G14GW	VF
74LVC1G14GV	V14
74LVC1G14GM	VF
74LVC1G14GF	VF
74LVC1G14GN	VF
74LVC1G14GS	VF
74LVC1G14GX	VF
74LVC1G14GX4	VF

[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

6 Functional diagram

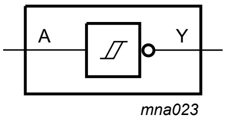


Figure 1. Logic symbol

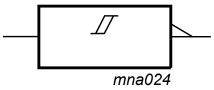


Figure 2. IEC logic symbol

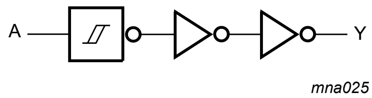


Figure 3. Logic diagram

7 Pinning information

7.1 Pinning

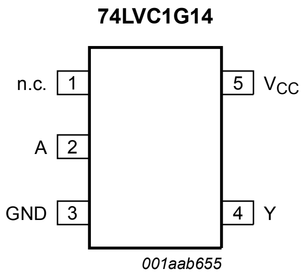
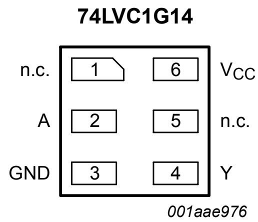
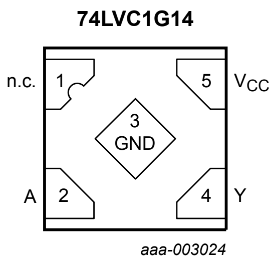


Figure 4. Pin configuration SOT353-1 and SOT753



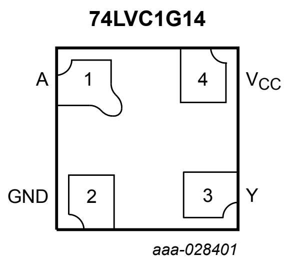
Transparent top view

Figure 5. Pin configuration SOT886, SOT891, SOT1115 and SOT1202



Transparent top view

Figure 6. Pin configuration SOT1226 (X2SON5)



Transparent top view

Figure 7. Pin configuration SOT1269-2 (X2SON4)

7.2 Pin description

Table 3. Pin description

Symbol	Pin			Description
	TSSOP5, SC-74A and X2SON5	XSON6	X2SON4	
n.c.	1	1, 5	-	not connected
A	2	2	1	data input
GND	3	3	2	ground (0 V)
Y	4	4	3	data output
V_{CC}	5	6	4	supply voltage

8 Functional description

Table 4. Function table [1]

Input	Output
A	**Y**
L	H
H	L

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

9 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	+6.5	V
V_I	input voltage	[1]	-0.5	+6.5	V
V_O	output voltage	Active mode [1]	-0.5	V_{CC} + 0.5	V
		Power-down mode; V_{CC} = 0 V [1]	-0.5	+6.5	V
I_{IK}	input clamping current	V_I < 0 V	-50	-	mA
I_{OK}	output clamping current	V_O > V_{CC} or V_O < 0 V	-	±50	mA
I_O	output current	V_O = 0 V to V_{CC}	-	±50	mA
I_{CC}	supply current		-	+100	mA
I_{GND}	ground current		-100	-	mA
T_{stg}	storage temperature		-65	+150	°C
P_{tot}	total power dissipation	T_{amb} = -40 °C to +125 °C			
		TSSOP5, SC-74A, XSON6 and X2SON5 package [2]	-	250	mW
		X2SON4 package [3]	-	150	mW

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
[2] For TSSOP5 and SC-74A packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K.
For XSON6 and X2SON5 package: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.
[3] For X2SON4 packages: above 57 °C the value of P_{tot} derates linearly with 1.7 mW/K.

10 Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{CC}	supply voltage		1.65	-	5.5	V
V_I	input voltage		0	-	5.5	V
V_O	output voltage	Active mode	0	-	V_{CC}	V
		Power-down mode; V_{CC} = 0 V	0	-	5.5	V
T_{amb}	ambient temperature		-40	-	+125	°C

11 Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
V_{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}						
		I_O = -100 µA; V_{CC} = 1.65 V to 5.5 V	V_{CC} - 0.1	-	-	V_{CC} - 0.1	-	V
		I_O = -4 mA; V_{CC} = 1.65 V	1.2	1.54	-	0.95	-	V
		I_O = -8 mA; V_{CC} = 2.3 V	1.9	2.15	-	1.7	-	V
		I_O = -12 mA; V_{CC} = 2.7 V	2.2	2.50	-	1.9	-	V
		I_O = -24 mA; V_{CC} = 3.0 V	2.3	2.62	-	2.0	-	V
		I_O = -32 mA; V_{CC} = 4.5 V	3.8	4.11	-	3.4	-	V
V_{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}						
		I_O = 100 µA; V_{CC} = 1.65 V to 5.5 V	-	-	0.10	-	0.10	V
		I_O = 4 mA; V_{CC} = 1.65 V	-	0.07	0.45	-	0.70	V
		I_O = 8 mA; V_{CC} = 2.3 V	-	0.12	0.30	-	0.45	V
		I_O = 12 mA; V_{CC} = 2.7 V	-	0.17	0.40	-	0.60	V
		I_O = 24 mA; V_{CC} = 3.0 V	-	0.33	0.55	-	0.80	V
		I_O = 32 mA; V_{CC} = 4.5 V	-	0.39	0.55	-	0.80	V
I_I	input leakage current	V_I = 5.5 V or GND; V_{CC} = 0 V to 5.5 V	-	±0.1	±1	-	±1	µA
I_{OFF}	power-off leakage current	V_I or V_O = 5.5 V; V_{CC} = 0 V	-	±0.1	±2	-	±2	µA
I_{CC}	supply current	V_I = 5.5 V or GND; I_O = 0 A; V_{CC} = 1.65 V to 5.5 V	-	0.1	4	-	4	µA

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
ΔI_{CC}	additional supply current	$V_I = V_{CC} - 0.6$ V; $I_O = 0$ A; $V_{CC} = 2.3$ V to 5.5 V	-	5	500	-	500	μA
C_I	input capacitance	$V_{CC} = 3.3$ V; V_I = GND to V_{CC}	-	5.0	-	-	-	pF

[1] All typical values are measured at maximum V_{CC} and $T_{amb} = 25$ °C.

Table 8. Transfer characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 9.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
V_{T+}	positive-going threshold voltage	see Figure 10 and Figure 11						
		$V_{CC} = 1.8$ V	0.82	1.0	1.14	0.79	1.14	V
		$V_{CC} = 2.3$ V	1.03	1.2	1.40	1.00	1.40	V
		$V_{CC} = 3.0$ V	1.29	1.5	1.71	1.26	1.71	V
		$V_{CC} = 4.5$ V	1.84	2.1	2.36	1.81	2.36	V
		$V_{CC} = 5.5$ V	2.19	2.5	2.79	2.16	2.79	V
V_{T-}	negative-going threshold voltage	see Figure 10 and Figure 11						
		$V_{CC} = 1.8$ V	0.46	0.6	0.75	0.46	0.78	V
		$V_{CC} = 2.3$ V	0.65	0.8	0.96	0.65	0.99	V
		$V_{CC} = 3.0$ V	0.88	1.0	1.24	0.88	1.27	V
		$V_{CC} = 4.5$ V	1.32	1.5	1.84	1.32	1.87	V
		$V_{CC} = 5.5$ V	1.58	1.8	2.24	1.58	2.27	V
V_H	hysteresis voltage	($V_{T+} - V_{T-}$); see Figure 10, Figure 11 and Figure 12						
		$V_{CC} = 1.8$ V	0.26	0.4	0.51	0.19	0.51	V
		$V_{CC} = 2.3$ V	0.28	0.4	0.57	0.22	0.57	V
		$V_{CC} = 3.0$ V	0.31	0.5	0.64	0.25	0.64	V
		$V_{CC} = 4.5$ V	0.40	0.6	0.77	0.34	0.77	V
		$V_{CC} = 5.5$ V	0.47	0.6	0.88	0.41	0.88	V

[1] Typical values are measured at $T_{amb} = 25$ °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

12 Dynamic characteristics

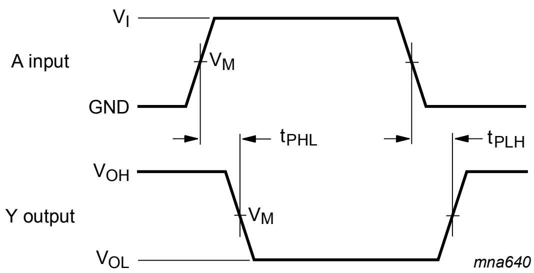
Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 9.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
t_{pd}	propagation delay	A to Y; see Figure 8 [2]						
		V_{CC} = 1.65 V to 1.95 V	1.0	4.1	11.0	1.0	14.0	ns
		V_{CC} = 2.3 V to 2.7 V	0.7	2.8	6.5	0.7	8.5	ns
		V_{CC} = 2.7 V	0.7	3.2	6.5	0.7	8.5	ns
		V_{CC} = 3.0 V to 3.6 V	0.7	3.0	5.5	0.7	7.0	ns
		V_{CC} = 4.5 V to 5.5 V	0.7	2.2	5.0	0.7	6.5	ns
C_{PD}	power dissipation capacitance	V_{CC} = 3.3 V; V_I = GND to V_{CC} [3]	-	15.4	-	-	-	pF

[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.
[2] t_{pd} is the same as t_{PLH} and t_{PHL}.
[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).
$P_D = C_{PD} \times V_{CC}^2 \times f_i + (C_L \times V_{CC}^2 \times f_o)$ 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.

12.1 Waveform and test circuit



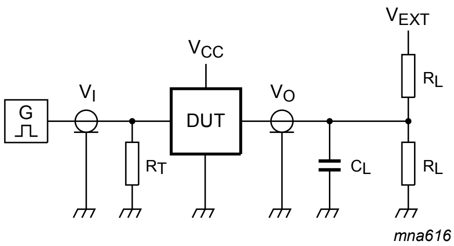
Measurement points are given in Table 10.

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

Figure 8. The data input (A) to output (Y) propagation delays

Table 10. Measurement points

Supply voltage	Input	Output
V_{CC}	V_M	V_M
1.65 V to 1.95 V	0.5 x V_{CC}	0.5 x V_{CC}
2.3 V to 2.7 V	0.5 x V_{CC}	0.5 x V_{CC}
2.7 V	1.5 V	1.5 V
3.0 V to 3.6 V	1.5 V	1.5 V
4.5 V to 5.5 V	0.5 x V_{CC}	0.5 x V_{CC}



Test data is given in Table 11.

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 the output impedance Z_o of the pulse generator.

V_{EXT} = External voltage for measuring switching times.

Figure 9. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	Input		Load		V_{EXT}
V_{CC}	V_I	$t_r = t_f$	C_L	R_L	t_{PLH}, t_{PHL}
1.65 V to 1.95 V	V_{CC}	≤ 2.0 ns	30 pF	1 kΩ	open
2.3 V to 2.7 V	V_{CC}	≤ 2.0 ns	30 pF	500 Ω	open
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open
4.5 V to 5.5 V	V_{CC}	≤ 2.5 ns	50 pF	500 Ω	open

12.2 Waveforms transfer characteristics

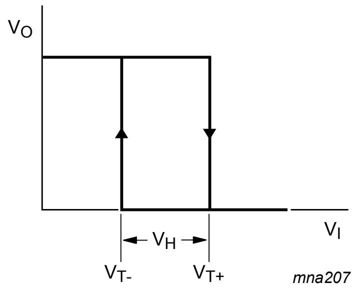
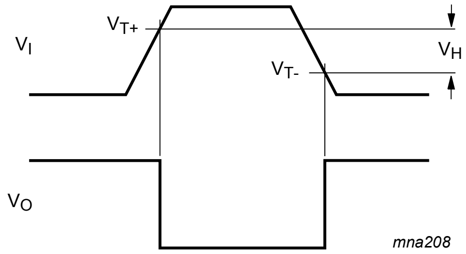
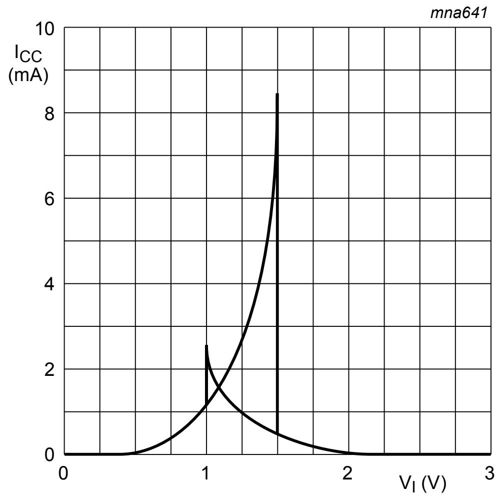


Figure 10. Transfer characteristic



V_{T+} and V_{T-} limits at 70 % and 20 %.

Figure 11. Definition of V_{T+}, V_{T-} and V_H



V_{CC} = 3.0 V.

Figure 12. Typical transfer characteristics

13 Application information

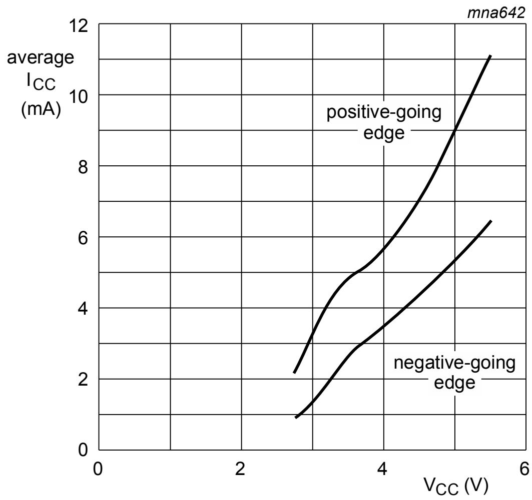
The slow input rise and fall times cause additional power dissipation, this can be calculated using the following formula:

$P_{add} = f_i \times (t_r \times \Delta I_{CC(AV)} + t_f \times \Delta I_{CC(AV)}) \times V_{CC}$ where:

- P_{add} = additional power dissipation (μW);
- f_i = input frequency (MHz);
- t_r = input rise time (ns); 10 % to 90 %;
- t_f = input fall time (ns); 90 % to 10 %;
- $\Delta I_{CC(AV)}$ = average additional supply current (μA).

Average $\Delta I_{CC(AV)}$ differs with positive or negative input transitions, as shown in Figure 13.

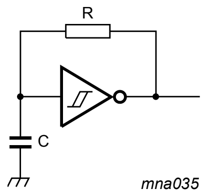
An example of a relaxation circuit using the 74LVC1G14 is shown in Figure 14.



Linear change of V_I between 0.8 V to 2.0 V.

All values given are typical unless otherwise specified.

Figure 13. Average additional supply current as a function of supply voltage



$$f = \frac{1}{T} \approx \frac{1}{K \times RC}$$

For K-factor, see Figure 15

Figure 14. Relaxation oscillator

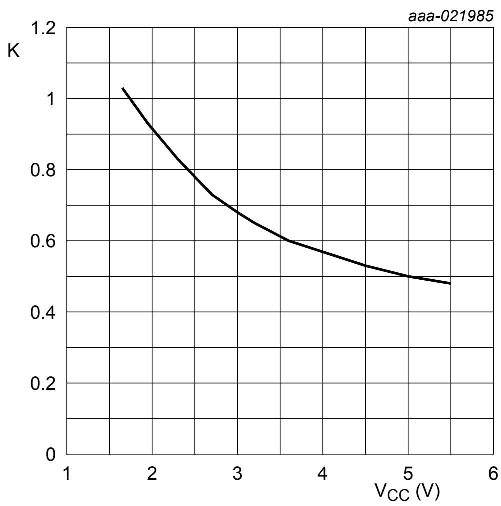
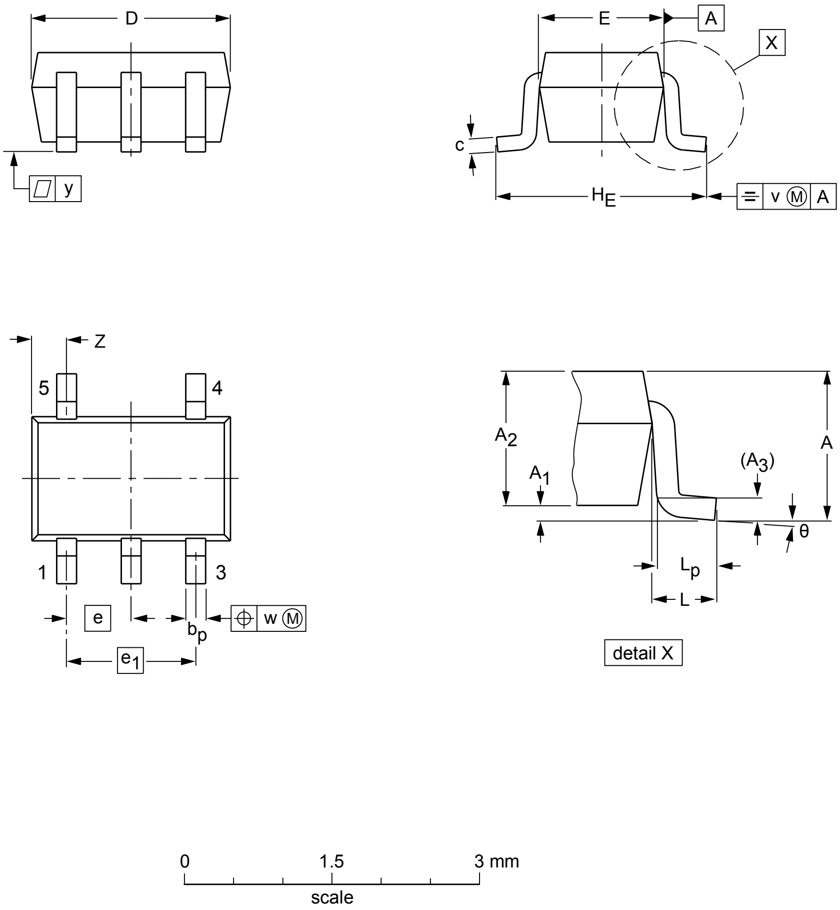


Figure 15. Typical K-factor for relaxation oscillator

14 Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm **SOT353-1**



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	D(1)	E(1)	e	e_1	H_E	L	L_p	v	w	y	Z(1)	θ
mm	1.1	0.1 0	1.0 0.8	0.15	0.30 0.15	0.25 0.08	2.25 1.85	1.35 1.15	0.65	1.3	2.25 2.0	0.425	0.46 0.21	0.3	0.1	0.1	0.60 0.15	7° 0°

Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

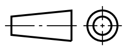
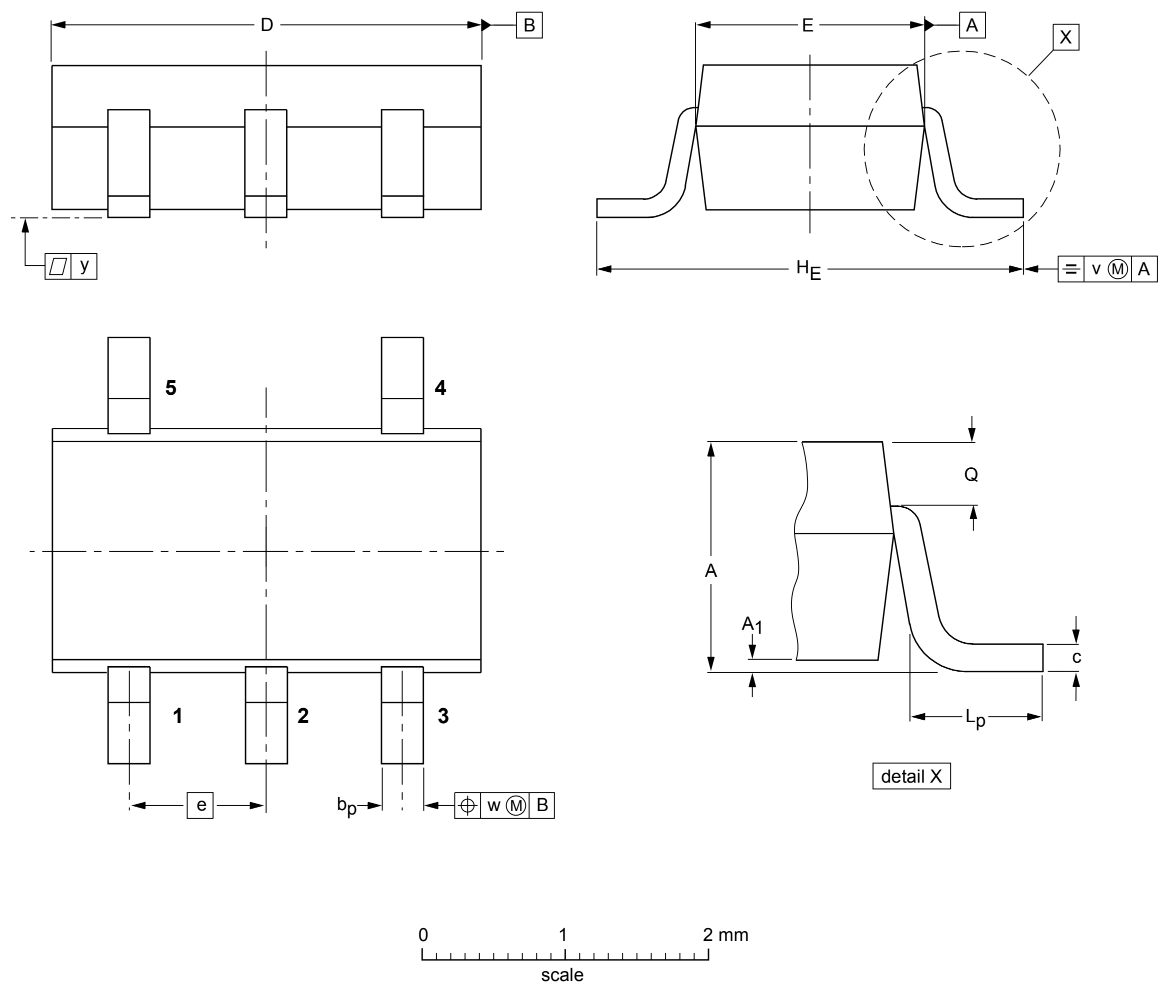
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT353-1		MO-203	SC-88A			~~00-09-01~~ 03-02-19

Figure 16. Package outline SOT353-1 (TSSOP5)

Plastic surface-mounted package; 5 leads **SOT753**



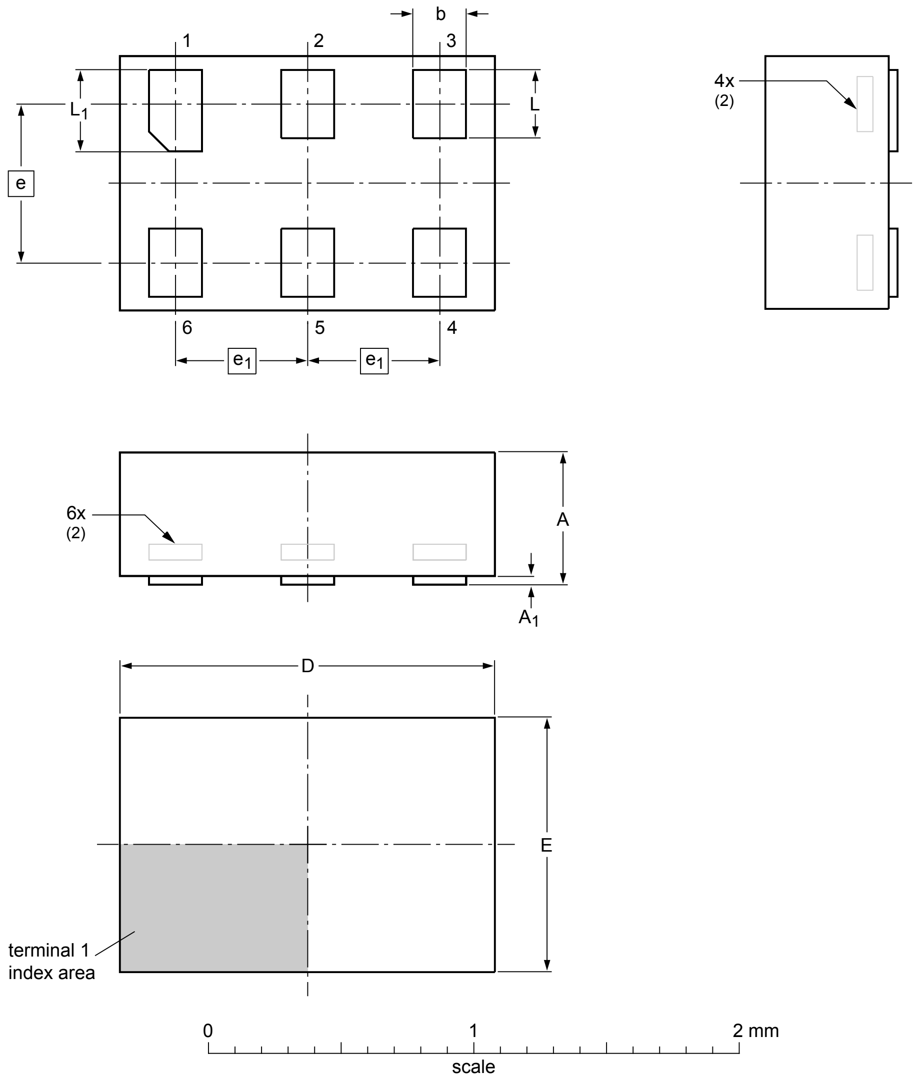
DIMENSIONS (mm are the original dimensions)

UNIT	A	A_1	b_p	c	D	E	e	H_E	L_p	Q	v	w	y
mm	1.1 0.9	0.100 0.013	0.40 0.25	0.26 0.10	3.1 2.7	1.7 1.3	0.95	3.0 2.5	0.6 0.2	0.33 0.23	0.2	0.2	0.1

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT753			SC-74A			~~02-04-16~~ 06-03-16

Figure 17. Package outline SOT753 (SC-74A)

XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm SOT886



Dimensions (mm are the original dimensions)

Unit		A(1)	A_1	b	D	E	e	e_1	L	L_1
	max	0.5	0.04	0.25	1.50	1.05			0.35	0.40
mm	nom			0.20	1.45	1.00	0.6	0.5	0.30	0.35
	min			0.17	1.40	0.95			0.27	0.32

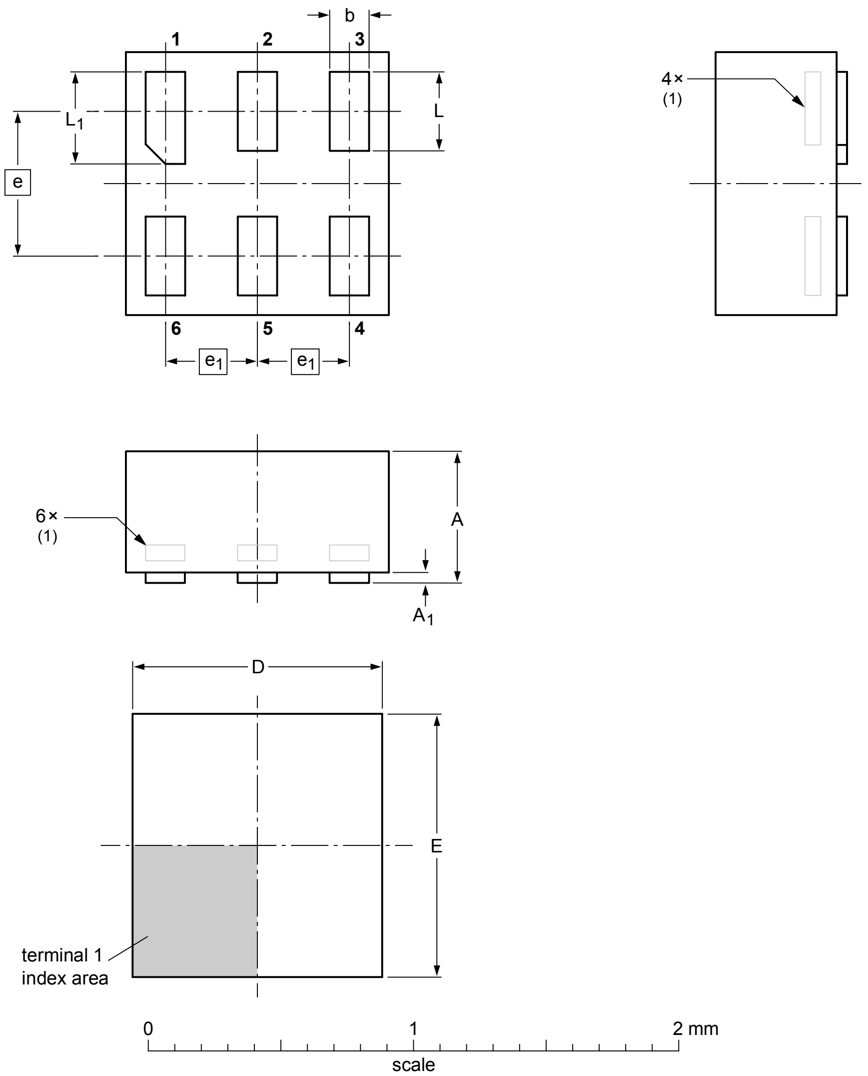
Notes
1. Including plating thickness.
2. Can be visible in some manufacturing processes.

sot886_po

Outline version	References: IEC	References: JEDEC	References: JEITA		European projection	Issue date
SOT886		MO-252				~~04-07-22~~ 12-01-05

Figure 18. Package outline SOT886 (XSON6)

XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm **SOT891**



DIMENSIONS (mm are the original dimensions)

UNIT	A max	A_1 max	b	D	E	e	e_1	L	L_1
mm	0.5	0.04	0.20 0.12	1.05 0.95	1.05 0.95	0.55	0.35	0.35 0.27	0.40 0.32

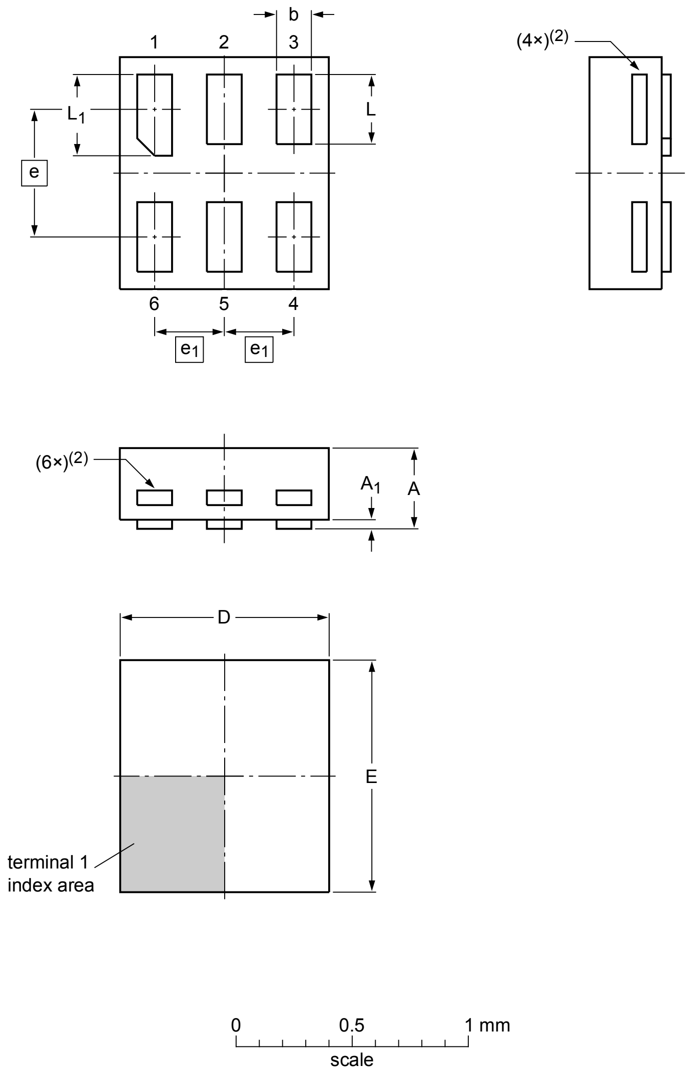
Note

1. Can be visible in some manufacturing processes.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT891						~~05-04-06~~ 07-05-15

Figure 19. Package outline SOT891 (XSON6)

XSON6: extremely thin small outline package; no leads;
6 terminals; body 0.9 x 1.0 x 0.35 mm **SOT1115**



Dimensions

Unit		$A^{(1)}$	A_1	b	D	E	e	e_1	L	L_1
	max	0.35	0.04	0.20	0.95	1.05			0.35	0.40
mm	nom			0.15	0.90	1.00	0.55	0.3	0.30	0.35
	min			0.12	0.85	0.95			0.27	0.32

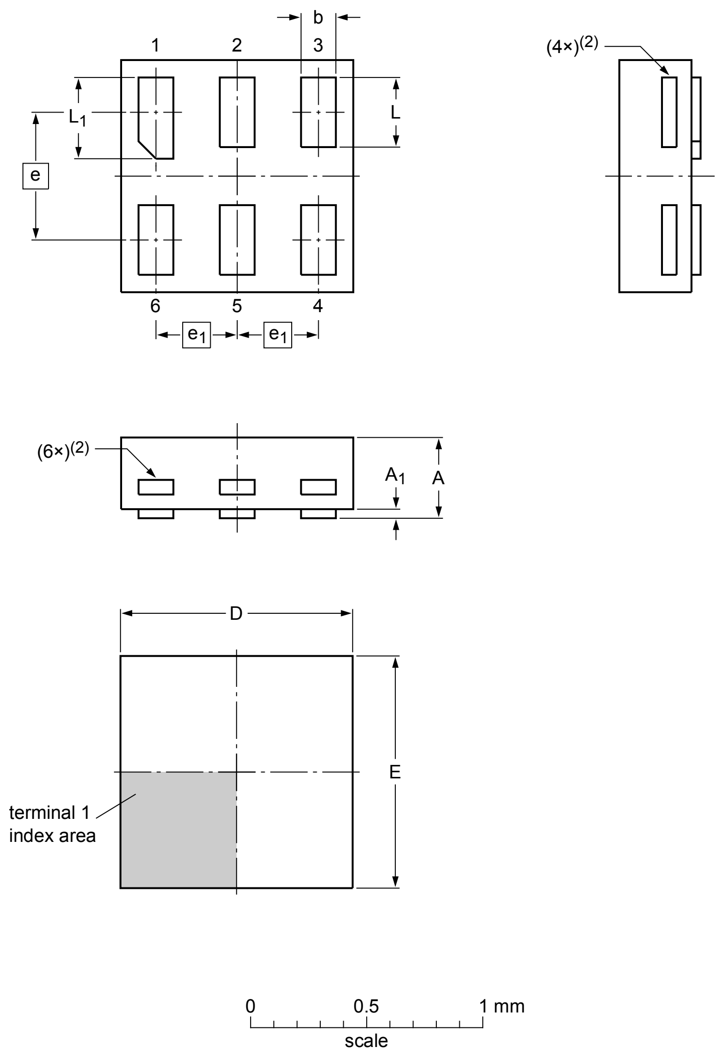
Note
1. Including plating thickness.
2. Visible depending upon used manufacturing technology.

sot1115_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT1115						~~10-04-02~~ 10-04-07

Figure 20. Package outline SOT1115 (XSON6)

XSON6: extremely thin small outline package; no leads;
6 terminals; body 1.0 x 1.0 x 0.35 mm **SOT1202**



Dimensions

Unit		A(1)	A_1	b	D	E	e	e_1	L	L_1
mm	max	0.35	0.04	0.20	1.05	1.05			0.35	0.40
	nom			0.15	1.00	1.00	0.55	0.35	0.30	0.35
	min			0.12	0.95	0.95			0.27	0.32

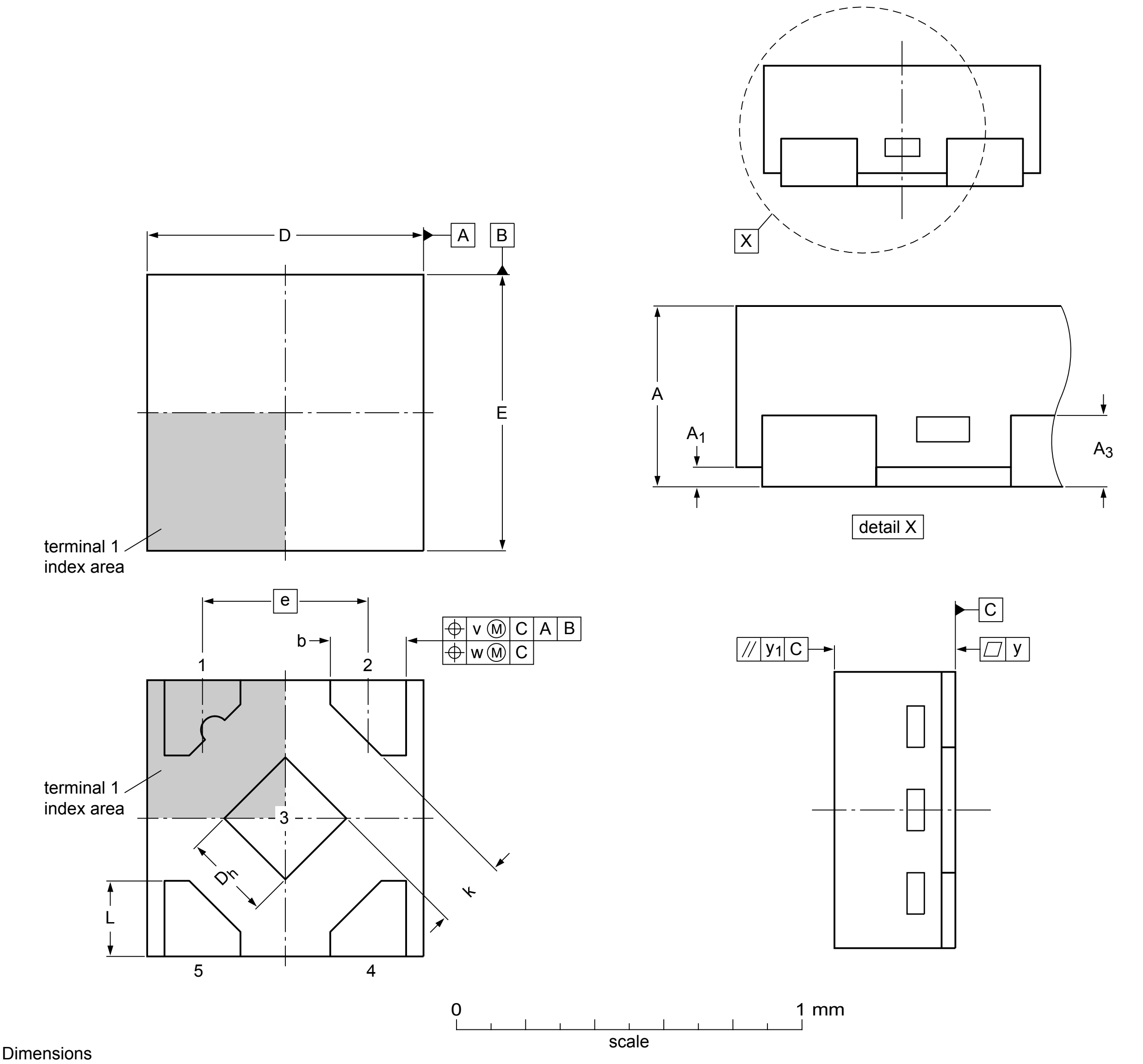
Note
1. Including plating thickness.
2. Visible depending upon used manufacturing technology.

sot1202_po

Outline version	References IEC	JEDEC	JEITA		European projection	Issue date
SOT1202						~~10-04-02~~ 10-04-06

Figure 21. Package outline SOT1202 (XSON6)

X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 x 0.8 x 0.35 mm **SOT1226**



Dimensions

Unit		A(1)	A_1	A_3	D	D_h	E	b	e	k	L	v	w	y	y_1
mm	max	0.35	0.04	0.128	0.85	0.30	0.85	0.27			0.27				
	nom				0.80	0.25	0.80	0.22	0.48		0.22	0.1	0.05	0.05	0.05
	min			0.040	0.75	0.20	0.75	0.17		0.20	0.17				

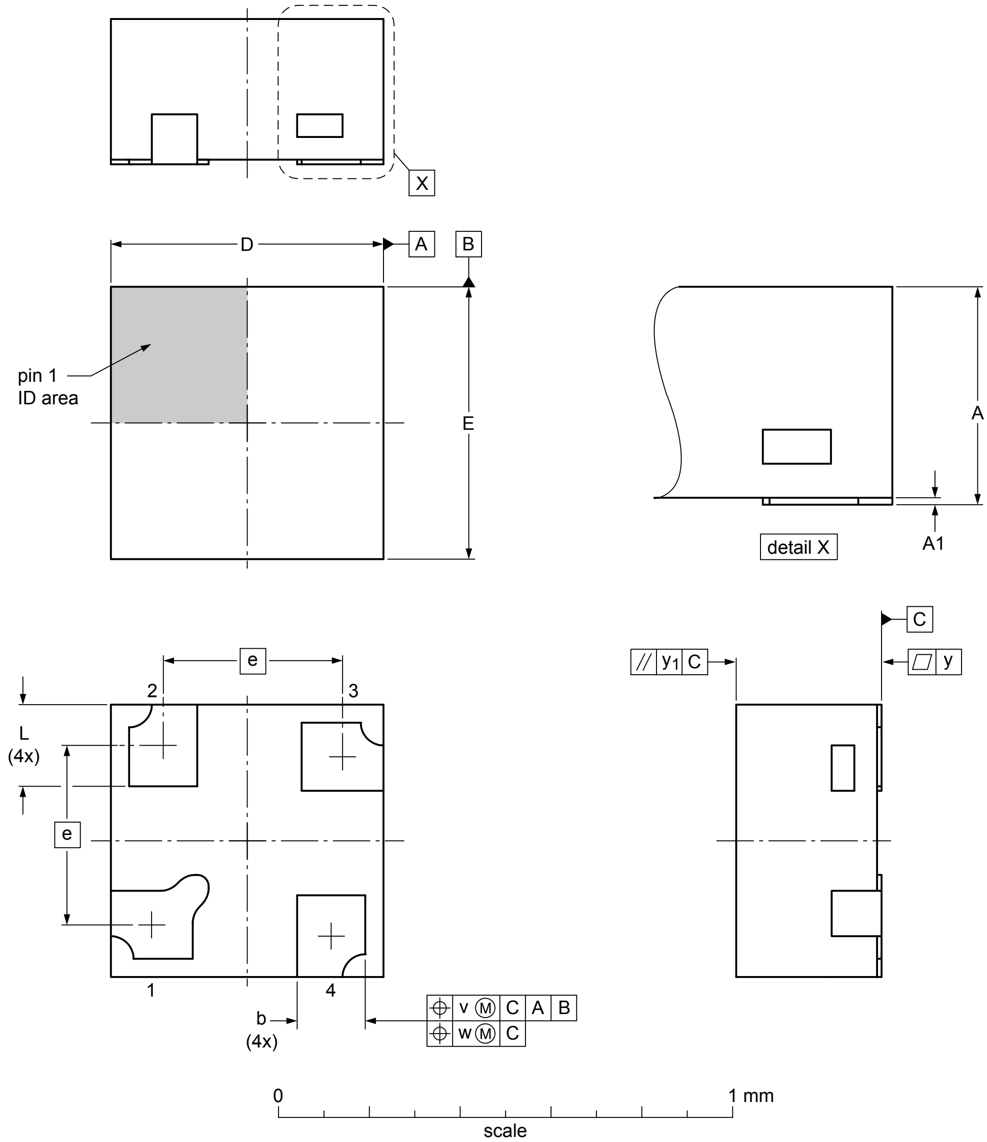
Note
1. Dimension A is including plating thickness.
2. Plastic or metal protrusions of 0.075 mm maximum per side are not included.

sot1226_po

Outline version	References: IEC	References: JEDEC	References: EIAJ		European projection	Issue date
SOT1226						~~12-04-10~~ 12-04-25

Figure 22. Package outline SOT1226 (X2SON5)

X2SON4: plastic thermal enhanced extremely thin small outline package; no leads; 4 terminals; body 0.6 x 0.6 x 0.32 mm **SOT1269-2**



Dimensions (mm are the original dimensions)

Unit		A	A_1	D	E	b	e	L	v	w	y	y_1
mm	max	0.35	0.04	0.65	0.65	0.20		0.23				
	nom	0.32	0.02	0.60	0.60	0.15	0.40	0.18	0.10	0.05	0.05	0.05
	min	0.30	0.00	0.55	0.55	0.10		0.13				

sot1269-2_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT1269-2		- - -				~~17-04-07~~ 17-06-30

Figure 23. Package outline SOT1269-2 (X2SON4)

15 Abbreviations

Table 12. Abbreviations

Acronym	Description
CMOS	Complementary Metal Oxide Semiconductor
TTL	Transistor-Transistor Logic
HBM	Human Body Model
ESD	ElectroStatic Discharge
MM	Machine Model
DUT	Device Under Test

16 Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G14 v.15	20180608	Product data sheet	-	74LVC1G14 v.15
Modifications:	• The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. • Legal texts have been adapted to the new company name where appropriate. • Added type number 74LVC1G14GX4 (SOT1269-2)			
74LVC1G14 v.14	20161202	Product data sheet	-	74LVC1G14 v.13
Modifications:	• Table 7: The maximum limits for leakage current and supply current have changed.			
74LVC1G14 v.13	20160315	Product data sheet	-	74LVC1G14 v.12
Modifications:	• Figure 15 added (typical K-factor for relaxation oscillator).			
74LVC1G14 v.12	20120806	Product data sheet	-	74LVC1G14 v.11
Modifications:	• Package outline drawing of SOT1226 (Figure 22) modified.			
74LVC1G14 v.11	20120412	Product data sheet	-	74LVC1G14 v.10
Modifications:	• Added type number 74LVC1G14GX (SOT1226) • Package outline drawing of SOT886 (Figure 18) modified.			
74LVC1G14 v.10	20111206	Product data sheet	-	74LVC1G14 v.9
Modifications:	• Legal pages updated.			
74LVC1G14 v.9	20110922	Product data sheet	-	74LVC1G14 v.8
74LVC1G14 v.8	20101110	Product data sheet	-	74LVC1G14 v.7
74LVC1G14 v.7	20070718	Product data sheet	-	74LVC1G14 v.6
74LVC1G14 v.6	20060615	Product data sheet	-	74LVC1G14 v.5
74LVC1G14 v.5	20040910	Product specification	-	74LVC1G14 v.4
74LVC1G14 v.4	20021119	Product specification	-	74LVC1G14 v.3
74LVC1G14 v.3	20020521	Product specification	-	74LVC1G14 v.2
74LVC1G14 v.2	20010406	Product specification	-	74LVC1G14 v.1
74LVC1G14 v.1	20001212	Product specification	-	-

17 Legal information

17.1 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.

[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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