

74LVC1G74

Single D-type flip-flop with set and reset; positive edge trigger

Rev. 13 — 5 December 2016

Product data sheet

1. General description

The 74LVC1G74 is a single positive edge triggered D-type flip-flop with individual data (D) inputs, clock (CP) inputs, set (\overline{SD}) and reset (\overline{RD}) inputs, and complementary Q and \overline{Q} outputs.

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

The set and reset are asynchronous active LOW inputs and operate independently of the clock input. Information on the data input is transferred to the Q output on the LOW-to-HIGH transition of the clock pulse. The D inputs must be stable one set-up time prior to the LOW-to-HIGH clock transition for predictable operation.

Schmitt trigger action at all inputs makes the circuit highly tolerant of slower input rise and fall times.

2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- 5 V tolerant inputs for interfacing with 5 V logic
- 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)
- ESD protection:
 - ◆ HBM JESD22-A114F exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 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
- Inputs accept voltages up to 5 V
- Multiple package options
- Specified from -40 °C to $+85$ °C and -40 °C to $+125$ °C

3. Ordering information

Table 1. Ordering information

Type number	Package			Version
	Temperature range	Name	Description	
74LVC1G74DP	−40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2
74LVC1G74DC	−40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74LVC1G74GT	−40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1
74LVC1G74GF	−40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm	SOT1089
74LVC1G74GD	−40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 3 × 2 × 0.5 mm	SOT996-2
74LVC1G74GM	−40 °C to +125 °C	XQFN8	plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 × 1.6 × 0.5 mm	SOT902-2
74LVC1G74GN	−40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116
74LVC1G74GS	−40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203

4. Marking

Table 2. Marking codes

Type number	Marking code ^[1]
74LVC1G74DP	V74
74LVC1G74DC	V74
74LVC1G74GT	V74
74LVC1G74GF	Y4
74LVC1G74GD	V74
74LVC1G74GM	V74
74LVC1G74GN	Y4
74LVC1G74GS	Y4

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

5. Functional diagram

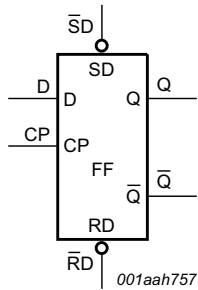


Fig 1. Logic symbol

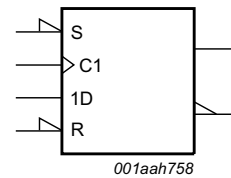


Fig 2. IEC logic symbol

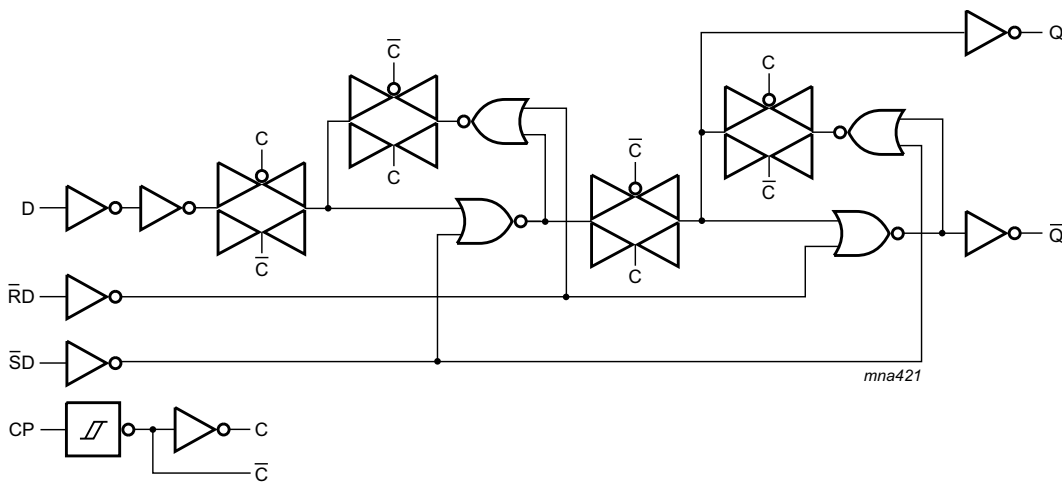
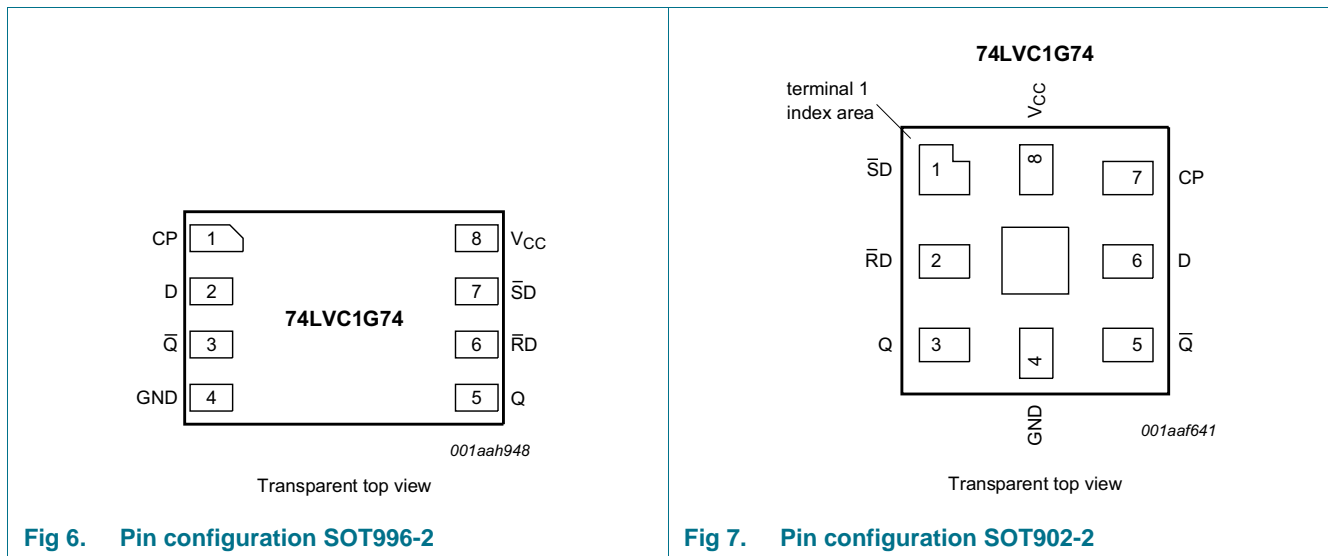
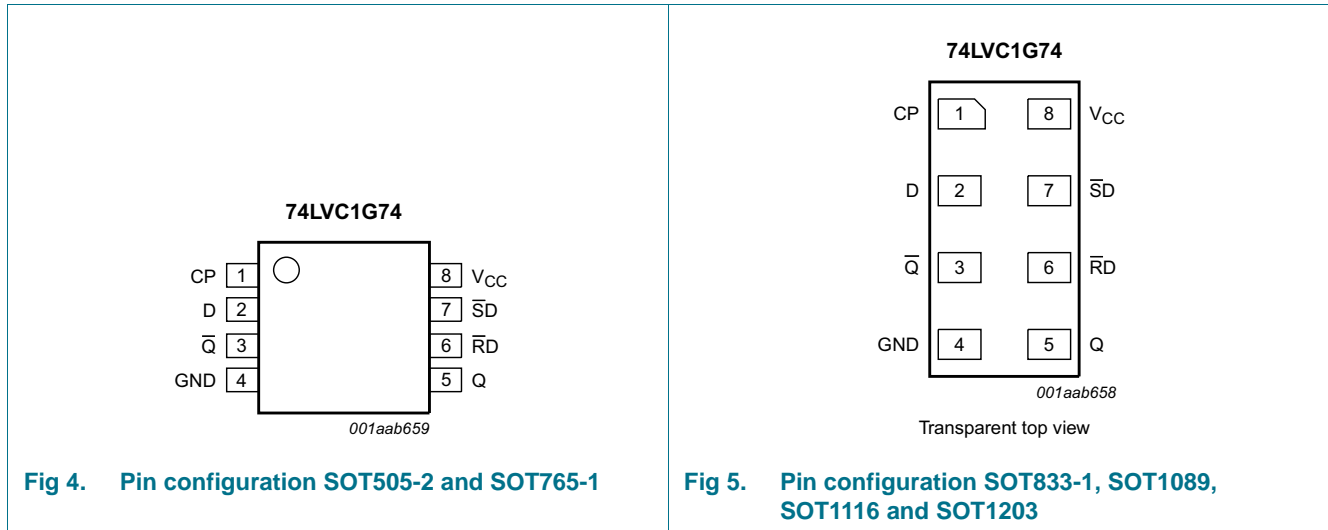


Fig 3. Logic diagram

6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

Symbol	Pin		Description
	SOT505-2, SOT765-1, SOT833-1, SOT1089, SOT996-2, SOT1116 and SOT1203	SOT902-2	
CP	1	7	clock input (LOW-to-HIGH, edge-triggered)
D	2	6	data input
\overline{Q}	3	5	complement output
GND	4	4	ground (0 V)
Q	5	3	true output
\overline{RD}	6	2	asynchronous reset-direct input (active LOW)
\overline{SD}	7	1	asynchronous set-direct input (active LOW)
V _{CC}	8	8	supply voltage

7. Functional description

Table 4. Function table for asynchronous operation^[1]

Input				Output	
\overline{SD}	\overline{RD}	CP	D	Q	\overline{Q}
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H	H

- [1] H = HIGH voltage level;
L = LOW voltage level;
X = don't care.

Table 5. Function table for synchronous operation^[1]

Input				Output	
\overline{SD}	\overline{RD}	CP	D	Q _{n+1}	\overline{Q}_{n+1}
H	H	↑	L	L	H
H	H	↑	H	H	L

- [1] H = HIGH voltage level;
L = LOW voltage level;
↑ = LOW-to-HIGH CP transition;
Q_{n+1} = state after the next LOW-to-HIGH CP transition.

8. Limiting values

Table 6. 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
I_{IK}	input clamping current	$V_I < 0$ V	-50	-	mA
V_I	input voltage		[1] -0.5	+6.5	V
I_{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V	-	±50	mA
V_O	output voltage	Active mode	[1] -0.5	$V_{CC} + 0.5$	V
		Power-down mode	[1][2] -0.5	+6.5	V
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
P_{tot}	total power dissipation	$T_{amb} = -40$ °C to $+125$ °C	[3] -	300	mW
T_{stg}	storage temperature		-65	+150	°C

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

[2] When $V_{CC} = 0$ V (Power-down mode), the output voltage can be 5.5 V in normal operation.

[3] For TSSOP8 packages: above 55 °C the value of P_{tot} derates linearly with 2.5 mW/K.
 For VSSOP8 packages: above 110 °C the value of P_{tot} derates linearly with 8.0 mW/K.
 For XSON8 and XQFN8 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

9. Recommended operating conditions

Table 7. Operating conditions

Symbol	Parameter	Conditions	Min	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
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{CC} = 1.65$ V to 2.7 V	-	20	ns/V
		$V_{CC} = 2.7$ V to 5.5 V	-	10	ns/V

10. Static characteristics

Table 8. Static characteristics

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

Symbol	Parameter	Conditions	Min	Typ ^[1]	Max	Unit
T_{amb} = -40 °C to +85 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35 × V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3 × V _{CC}	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	1.54	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.9	2.15	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	2.2	2.50	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.3	2.62	-	V
		I _O = -32 mA; V _{CC} = 4.5 V	3.8	4.11	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.10	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	0.07	0.45	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	0.12	0.30	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	0.17	0.40	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	0.33	0.55	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	0.39	0.55	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	±1	μA
I _{OFF}	power-off leakage current	V _I or V _O = 5.5 V; V _{CC} = 0 V	-	±0.1	±2	μA
I _{CC}	supply current	V _I = 5.5 V or GND; V _{CC} = 1.65 V to 5.5 V; I _O = 0 A	-	0.1	4	μA
ΔI _{CC}	additional supply current	per pin; V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 2.3 V to 5.5 V	-	5	500	μA
C _I	input capacitance		-	4.0	-	pF

Table 8. Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Typ ^[1]	Max	Unit
T_{amb} = -40 °C to +125 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35 × V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3 × V _{CC}	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	0.95	-	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.7	-	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	1.9	-	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.0	-	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.10	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.70	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.45	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.60	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.80	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	±1	μA
		V _I or V _O = 5.5 V; V _{CC} = 0 V	-	-	±2	μA
I _{CC}	supply current	V _I = 5.5 V or GND; V _{CC} = 1.65 V to 5.5 V; I _O = 0 A	-	-	4	μA
ΔI _{CC}	additional supply current	per pin; V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 2.3 V to 5.5 V	-	-	500	μA

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

11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see [Figure 10](#).

Symbol	Parameter	Conditions	−40 °C to +85 °C			−40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	
t _{pd}	propagation delay	CP to Q, \bar{Q} ; see Figure 8 ^[2]						
		V _{CC} = 1.65 V to 1.95 V	1.5	6.0	13.4	1.5	13.4	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	3.5	7.1	1.0	7.1	ns
		V _{CC} = 2.7 V	1.0	3.5	7.1	1.0	7.1	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.5	5.9	1.0	5.9	ns
		V _{CC} = 4.5 V to 5.5 V	1.0	2.5	4.1	1.0	4.1	ns
		$\bar{S}D$ to Q, \bar{Q} ; see Figure 9 ^[2]						
		V _{CC} = 1.65 V to 1.95 V	1.5	6.0	12.9	1.5	12.9	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V _{CC} = 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.0	5.9	1.0	5.9	ns
		V _{CC} = 4.5 V to 5.5 V	1.0	2.5	4.1	1.0	4.1	ns
		$\bar{R}D$ to Q, \bar{Q} ; see Figure 9 ^[2]						
		V _{CC} = 1.65 V to 1.95 V	1.5	5.0	12.9	1.5	12.9	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V _{CC} = 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.0	5.9	1.0	5.9	ns
		V _{CC} = 4.5 V to 5.5 V	1.0	2.5	4.1	1.0	4.1	ns
t _w	pulse width	CP HIGH or LOW; see Figure 8						
		V _{CC} = 1.65 V to 1.95 V	6.2	-	-	6.2	-	ns
		V _{CC} = 2.3 V to 2.7 V	2.7	-	-	2.7	-	ns
		V _{CC} = 2.7 V	2.7	-	-	2.7	-	ns
		V _{CC} = 3.0 V to 3.6 V	2.7	1.3	-	2.7	-	ns
		V _{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	ns
		$\bar{S}D$ and $\bar{R}D$ LOW; see Figure 9						
		V _{CC} = 1.65 V to 1.95 V	6.2	-	-	6.2	-	ns
		V _{CC} = 2.3 V to 2.7 V	2.7	-	-	2.7	-	ns
		V _{CC} = 2.7 V	2.7	-	-	2.7	-	ns
		V _{CC} = 3.0 V to 3.6 V	2.7	1.6	-	2.7	-	ns
		V _{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	ns

Table 9. Dynamic characteristics ...continuedVoltages are referenced to GND (ground = 0 V); for test circuit see [Figure 10](#).

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit	
			Min	Typ ^[1]	Max	Min	Max		
t _{rec}	recovery time	\overline{SD} or \overline{RD} ; see Figure 9							
		V _{CC} = 1.65 V to 1.95 V	1.9	-	-	1.9	-	ns	
		V _{CC} = 2.3 V to 2.7 V	1.4	-	-	1.4	-	ns	
		V _{CC} = 2.7 V	1.3	-	-	1.3	-	ns	
		V _{CC} = 3.0 V to 3.6 V	+1.2	-3.0	-	+1.2	-	ns	
		V _{CC} = 4.5 V to 5.5 V	1.0	-	-	1.0	-	ns	
t _{su}	set-up time	D to CP; see Figure 8							
		V _{CC} = 1.65 V to 1.95 V	2.9	-	-	2.9	-	ns	
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	ns	
		V _{CC} = 2.7 V	1.7	-	-	1.7	-	ns	
		V _{CC} = 3.0 V to 3.6 V	1.3	0.5	-	1.3	-	ns	
		V _{CC} = 4.5 V to 5.5 V	1.1	-	-	1.1	-	ns	
t _h	hold time	D to CP; see Figure 8							
		V _{CC} = 1.65 V to 1.95 V	1.5	-	-	1.5	-	ns	
		V _{CC} = 2.3 V to 2.7 V	1.0	-	-	1.0	-	ns	
		V _{CC} = 2.7 V	1.0	-	-	1.0	-	ns	
		V _{CC} = 3.0 V to 3.6 V	1.0	0.6	-	1.0	-	ns	
		V _{CC} = 4.5 V to 5.5 V	1.0	-	-	1.0	-	ns	
f _{max}	maximum frequency	CP; see Figure 8							
		V _{CC} = 1.65 V to 1.95 V	80	-	-	80	-	MHz	
		V _{CC} = 2.3 V to 2.7 V	175	-	-	175	-	MHz	
		V _{CC} = 2.7 V	175	-	-	175	-	MHz	
		V _{CC} = 3.0 V to 3.6 V	175	280	-	175	-	MHz	
		V _{CC} = 4.5 V to 5.5 V	200	-	-	200	-	MHz	
C _{PD}	power dissipation capacitance	V _I = GND to V _{CC} ; V _{CC} = 3.3 V	^[3]	-	15	-	-	-	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).

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

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;

Σ(C_L × V_{CC}² × f_o) = sum of outputs.

12. Waveforms

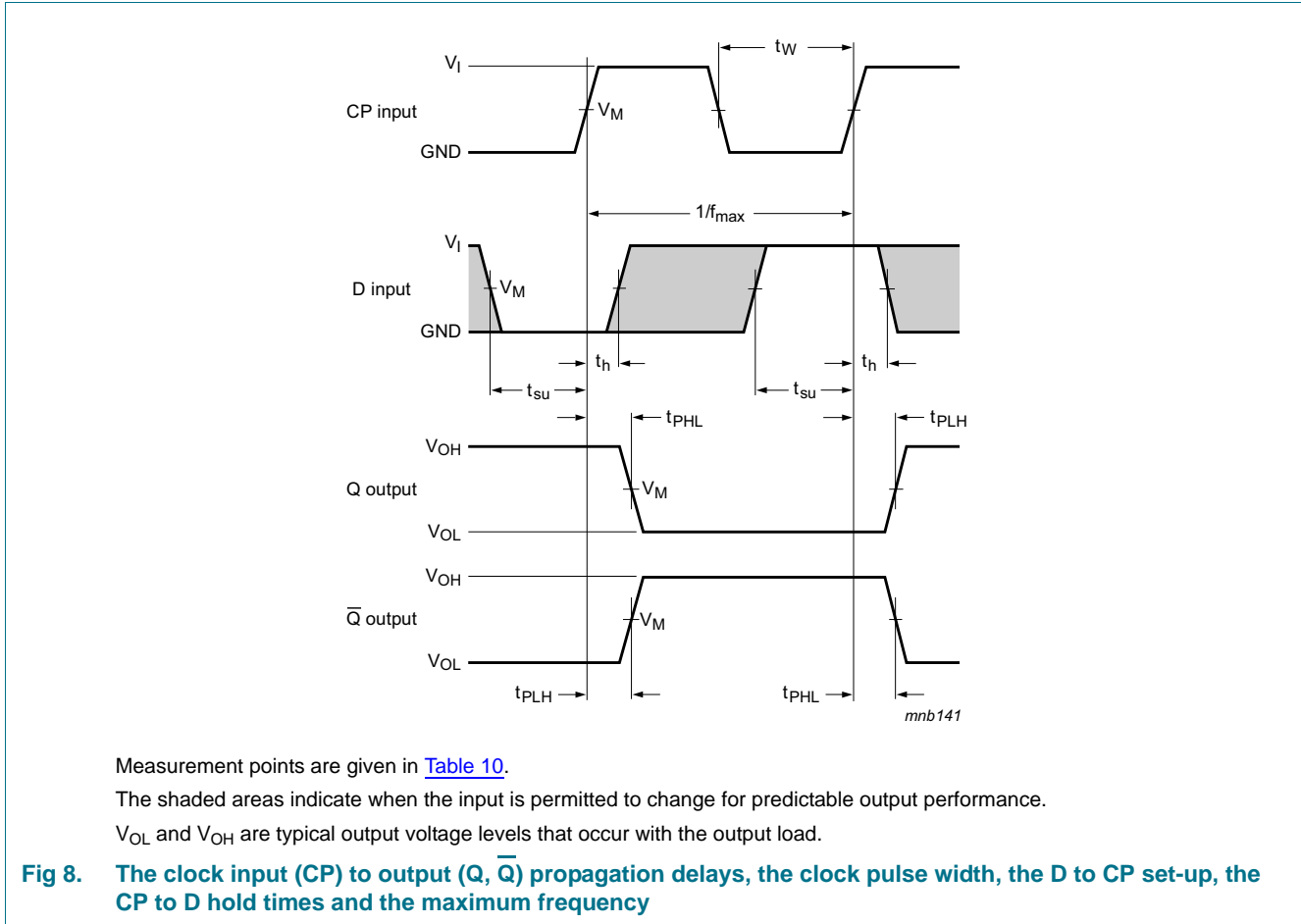
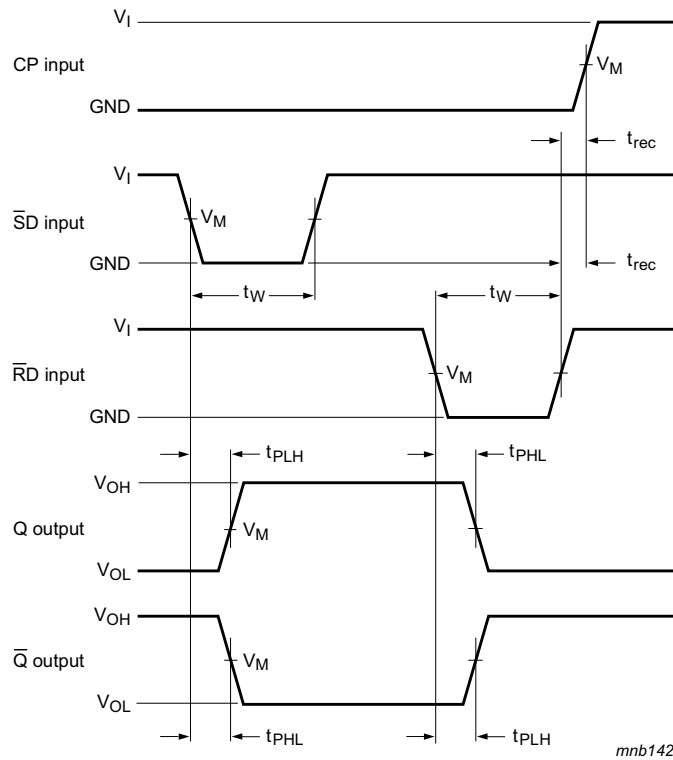


Table 10. Measurement points

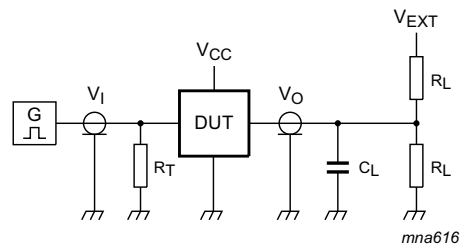
Supply voltage	Input	Output
V_{CC}	V_M	V_M
1.65 V to 1.95 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
2.3 V to 2.7 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
2.7 V	1.5 V	1.5 V
3.0 V to 3.6 V	1.5 V	1.5 V
4.5 V to 5.5 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$



Measurement points are given in [Table 10](#).

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

Fig 9. The set (\overline{SD}) and reset (\overline{RD}) input to output (Q , \overline{Q}) propagation delays, the set and reset pulse widths and the RD to CP recovery time



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.

Fig 10. 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}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
1.65 V to 1.95 V	V_{CC}	≤ 2.0 ns	30 pF	1 k Ω	open	GND	$2V_{CC}$
2.3 V to 2.7 V	V_{CC}	≤ 2.0 ns	30 pF	500 Ω	open	GND	$2V_{CC}$
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V
4.5 V to 5.5 V	V_{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	$2V_{CC}$

13. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

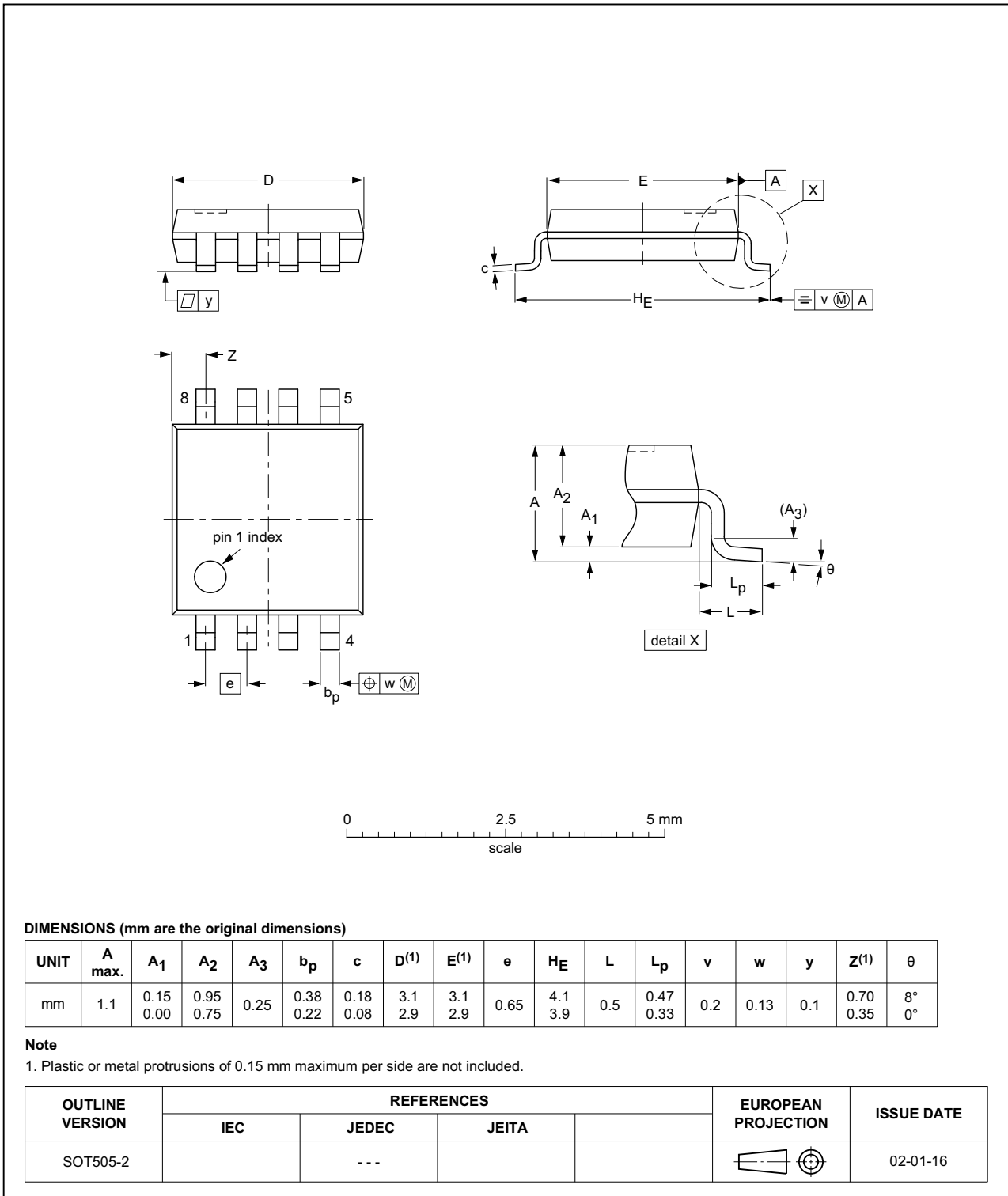


Fig 11. Package outline SOT505-2 (TSSOP8)

VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1

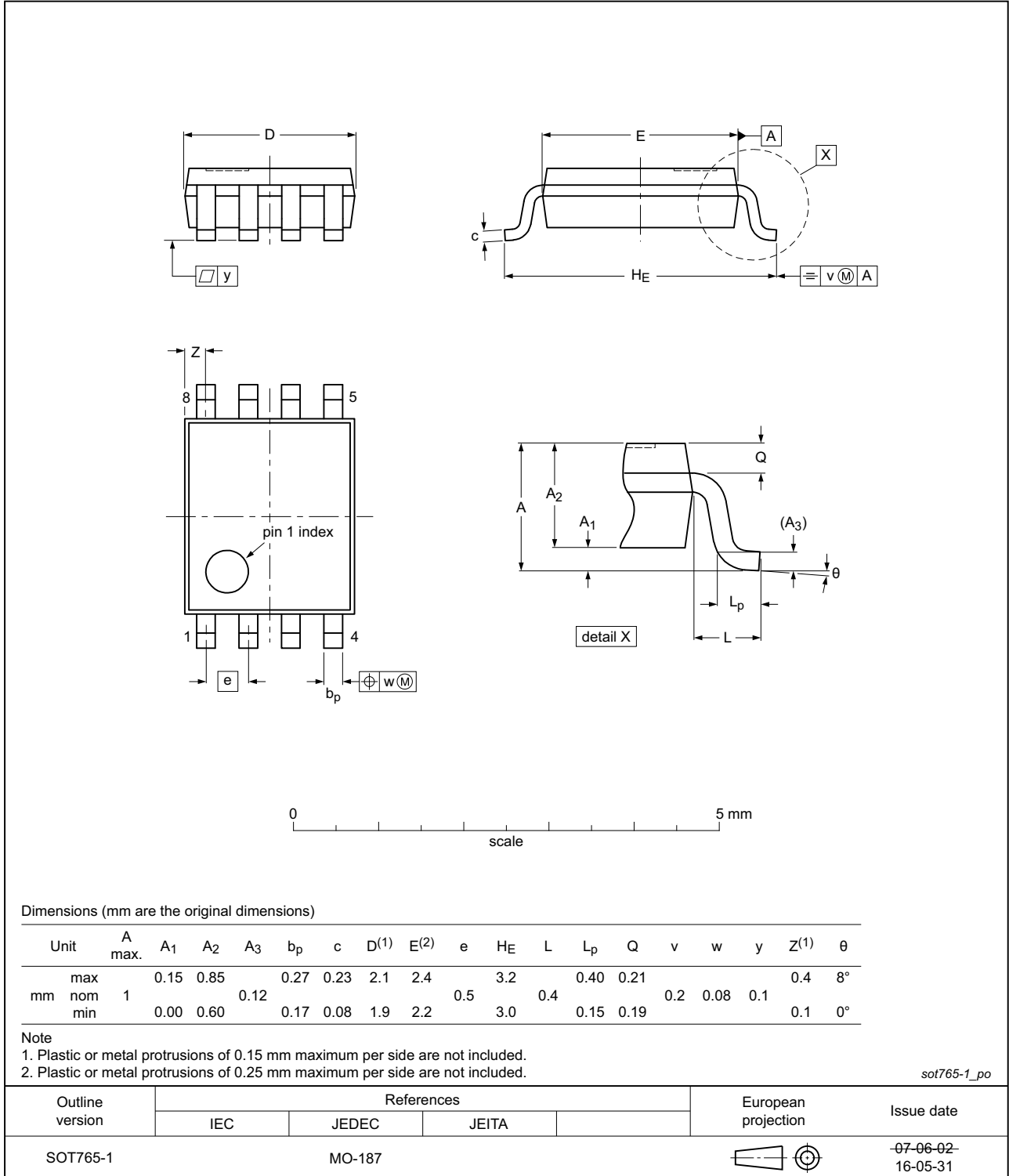


Fig 12. Package outline SOT765-1 (VSSOP8)

XSON8: plastic extremely thin small outline package; no leads; 8 terminals; body 1 x 1.95 x 0.5 mm

SOT833-1

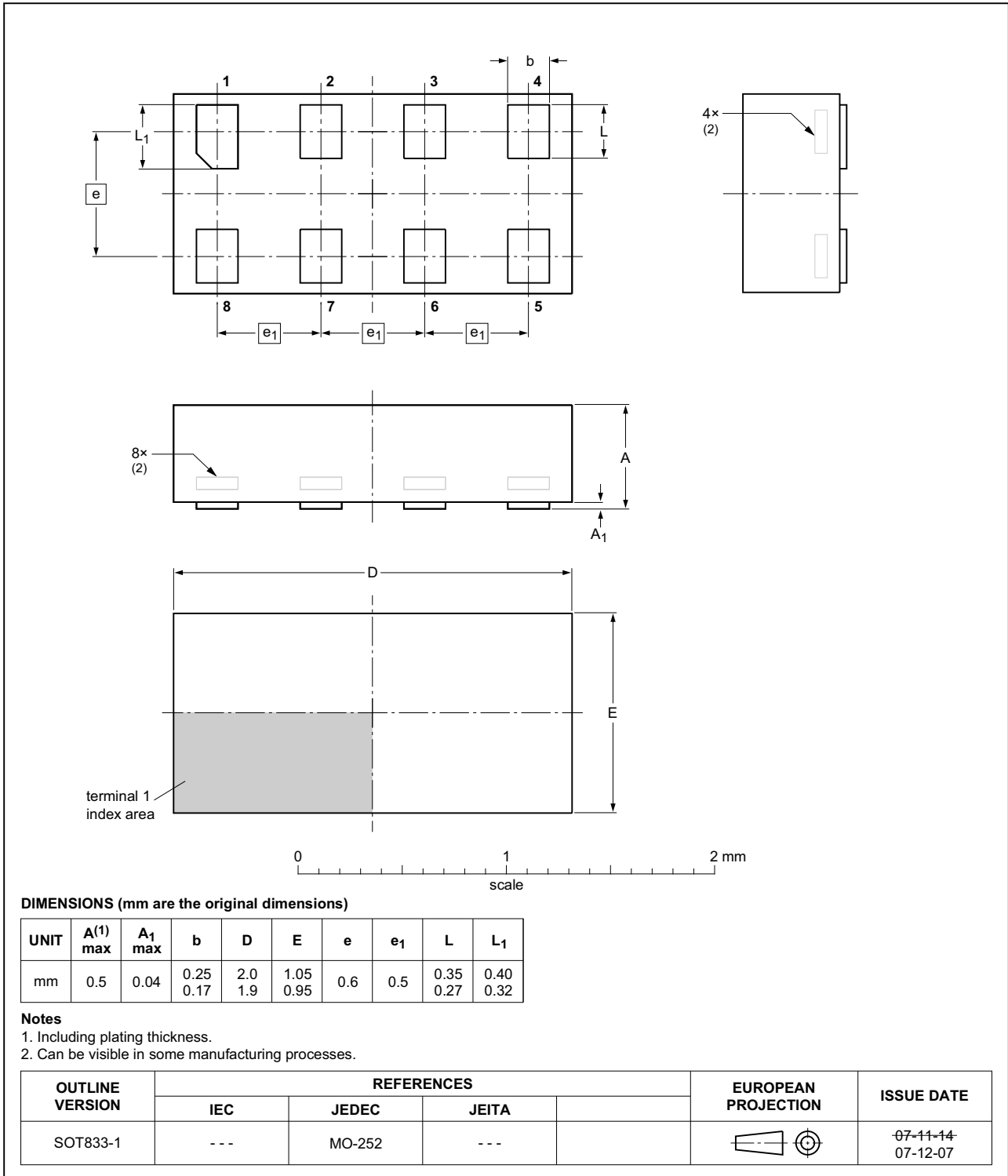


Fig 13. Package outline SOT833-1 (XSON8)

XSON8: extremely thin small outline package; no leads;
8 terminals; body 1.35 x 1 x 0.5 mm

SOT1089

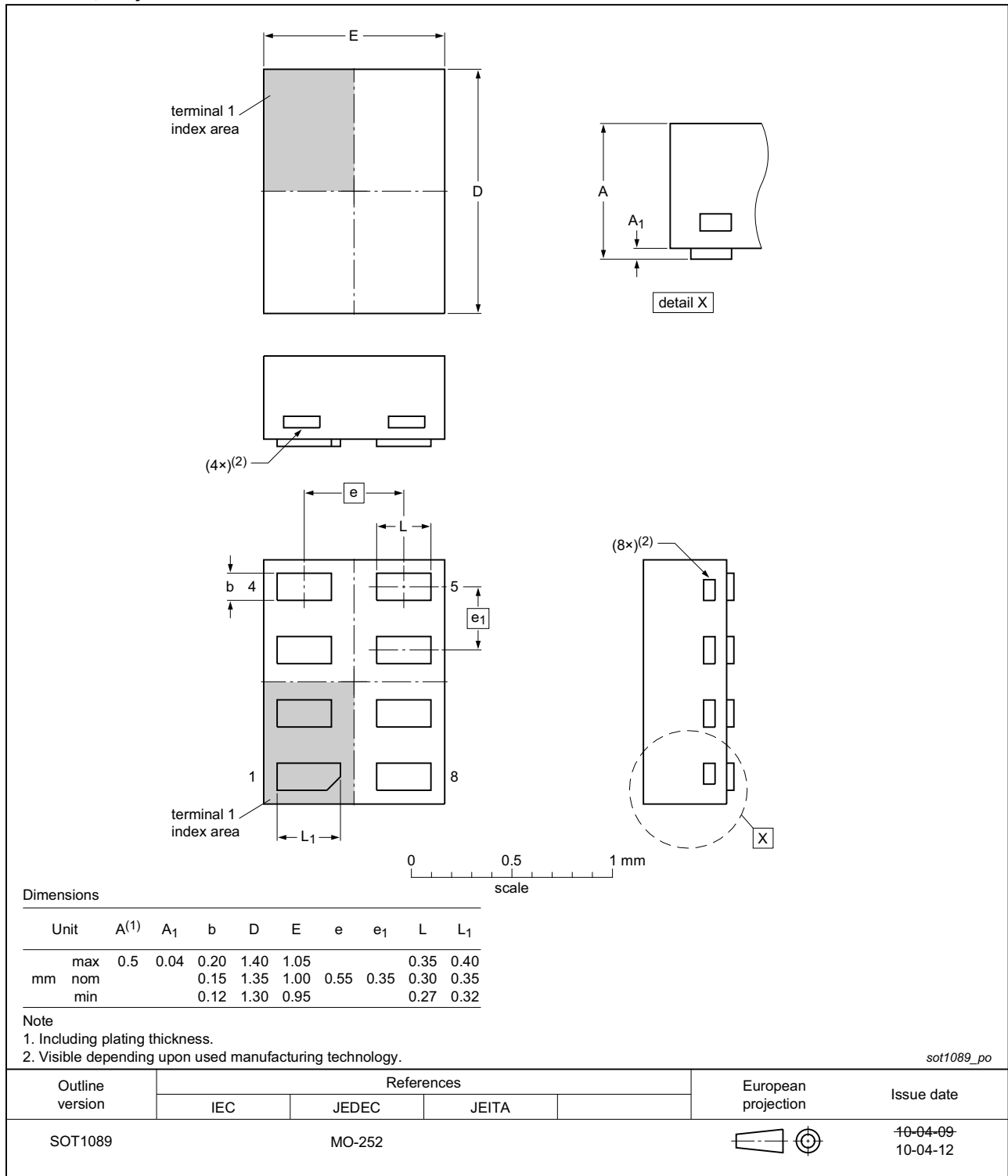


Fig 14. Package outline SOT1089 (XSON8)

XSON8: plastic extremely thin small outline package; no leads;
8 terminals; body 3 x 2 x 0.5 mm

SOT996-2

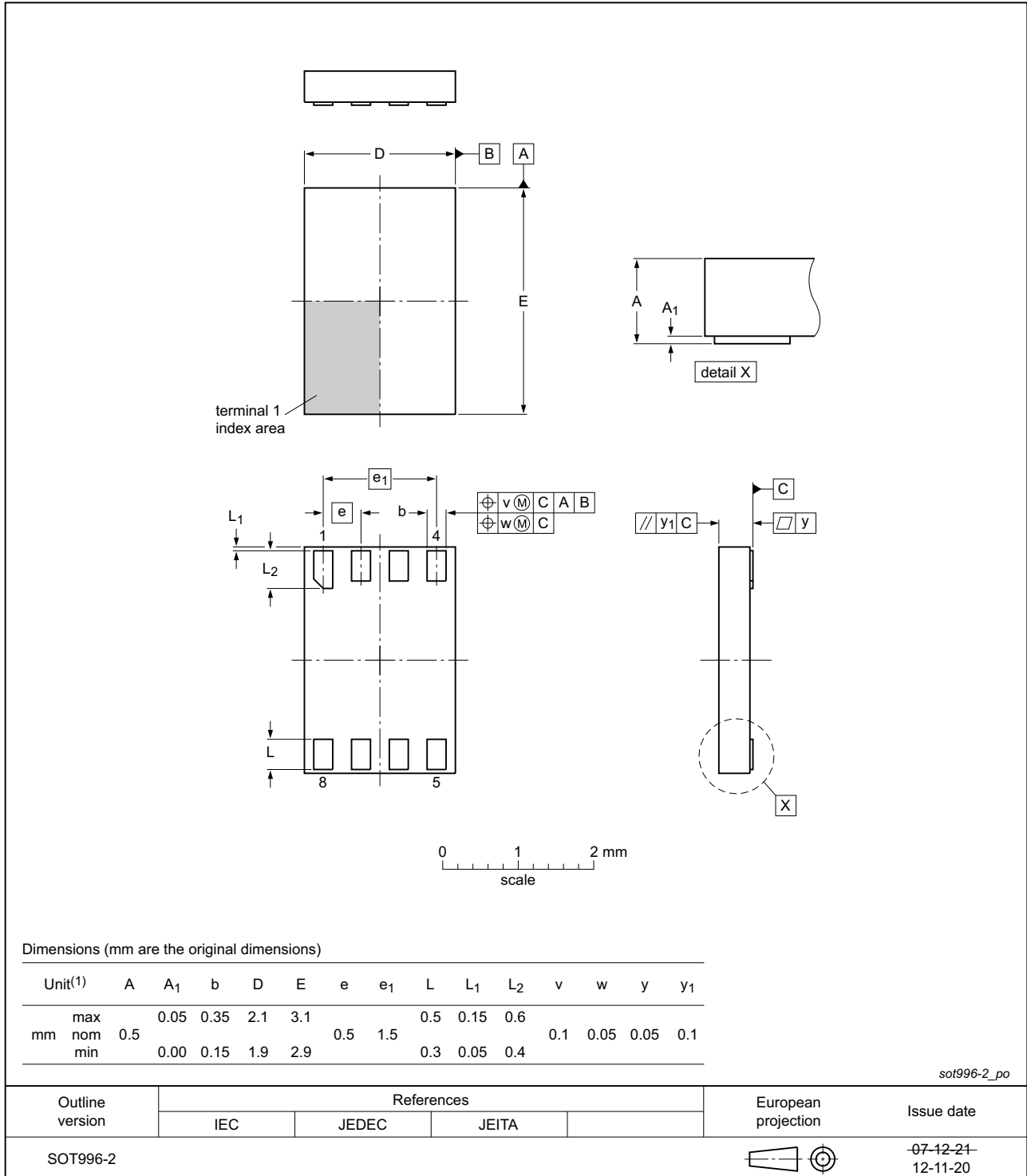


Fig 15. Package outline SOT996-2 (XSON8)

XQFN8: plastic, extremely thin quad flat package; no leads;
8 terminals; body 1.6 x 1.6 x 0.5 mm

SOT902-2

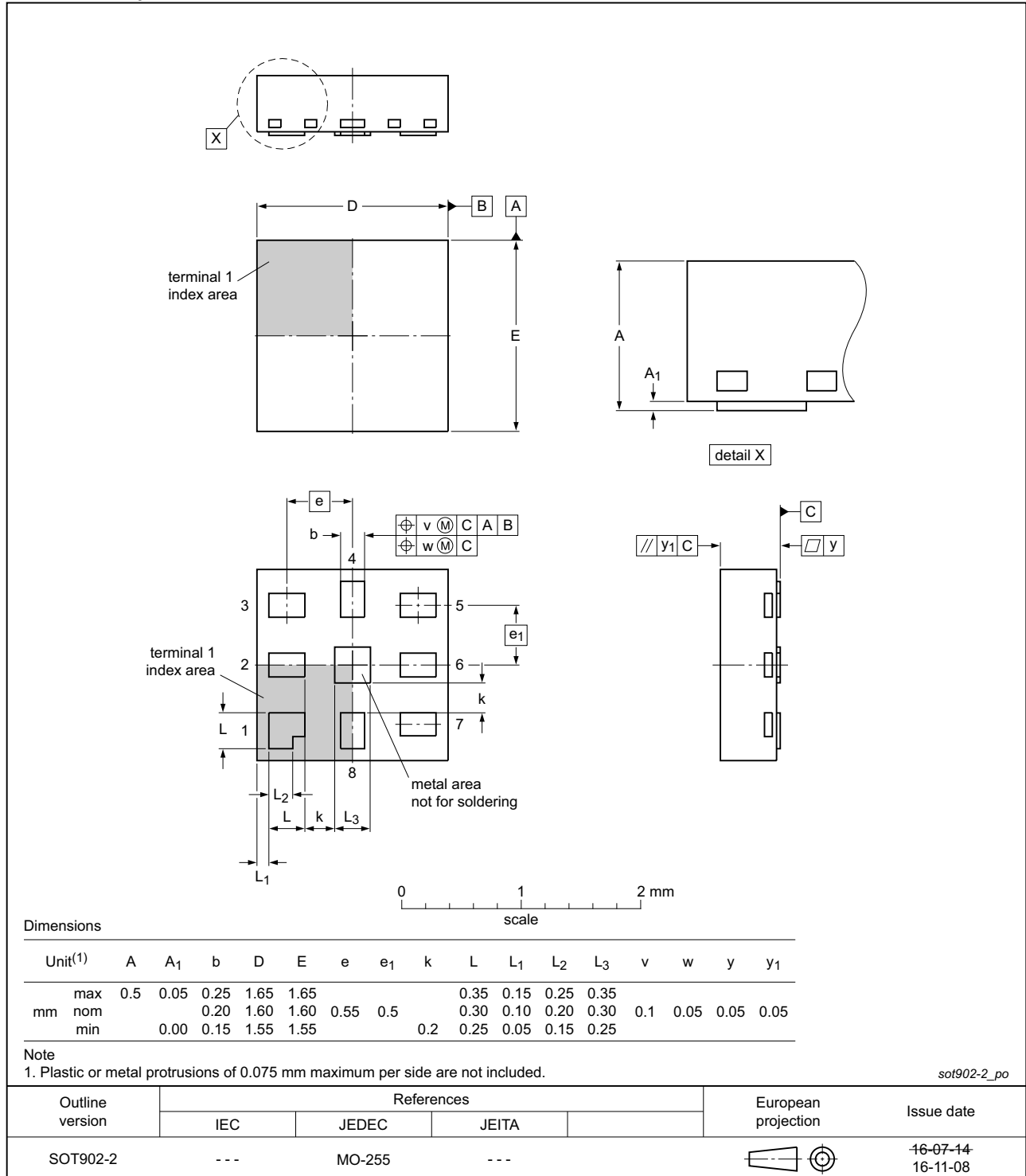


Fig 16. Package outline SOT902-2 (XQFN8)

XSON8: extremely thin small outline package; no leads;
8 terminals; body 1.2 x 1.0 x 0.35 mm

SOT1116

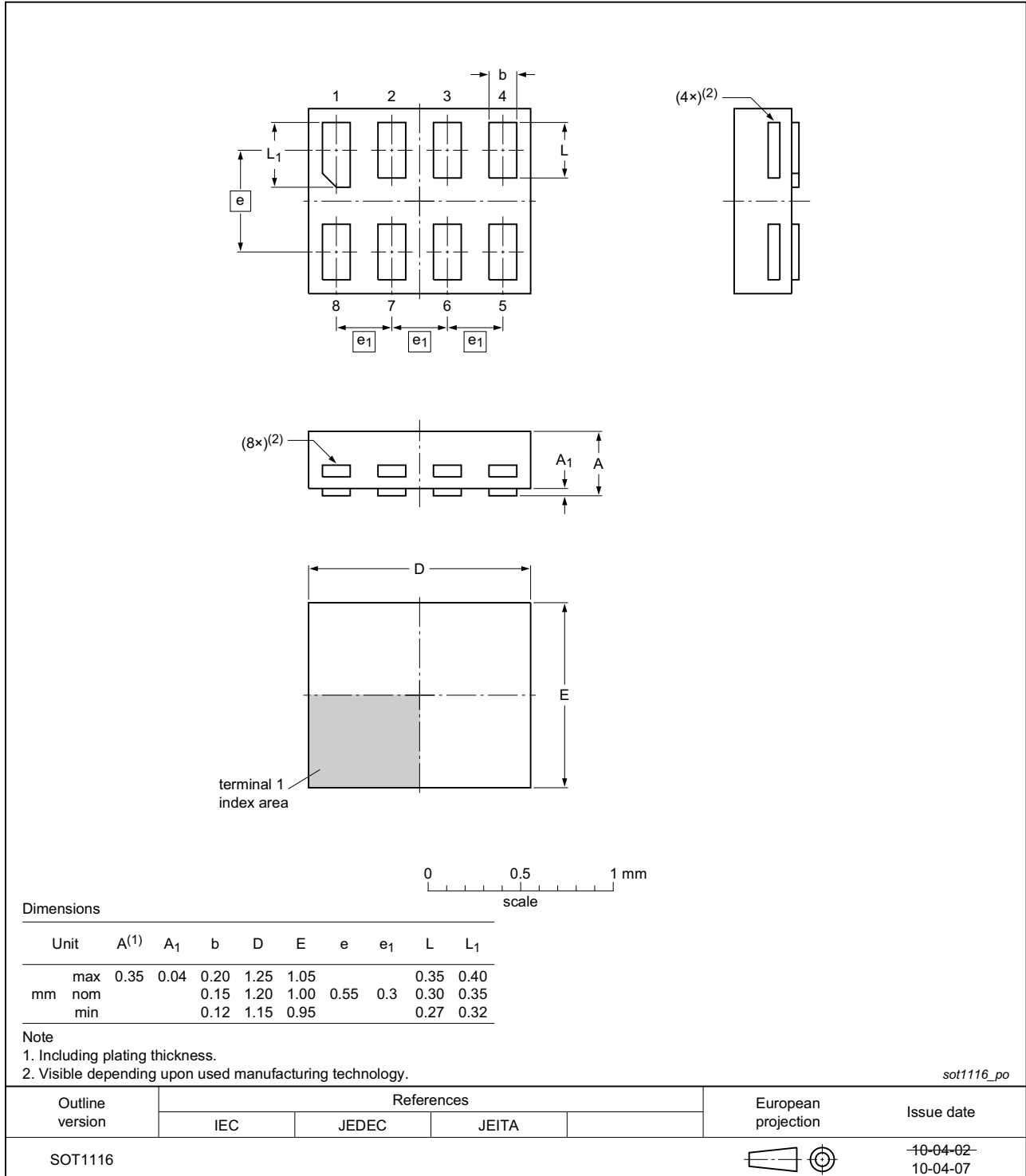


Fig 17. Package outline SOT1116 (XSON8)

XSON8: extremely thin small outline package; no leads;
8 terminals; body 1.35 x 1.0 x 0.35 mm

SOT1203

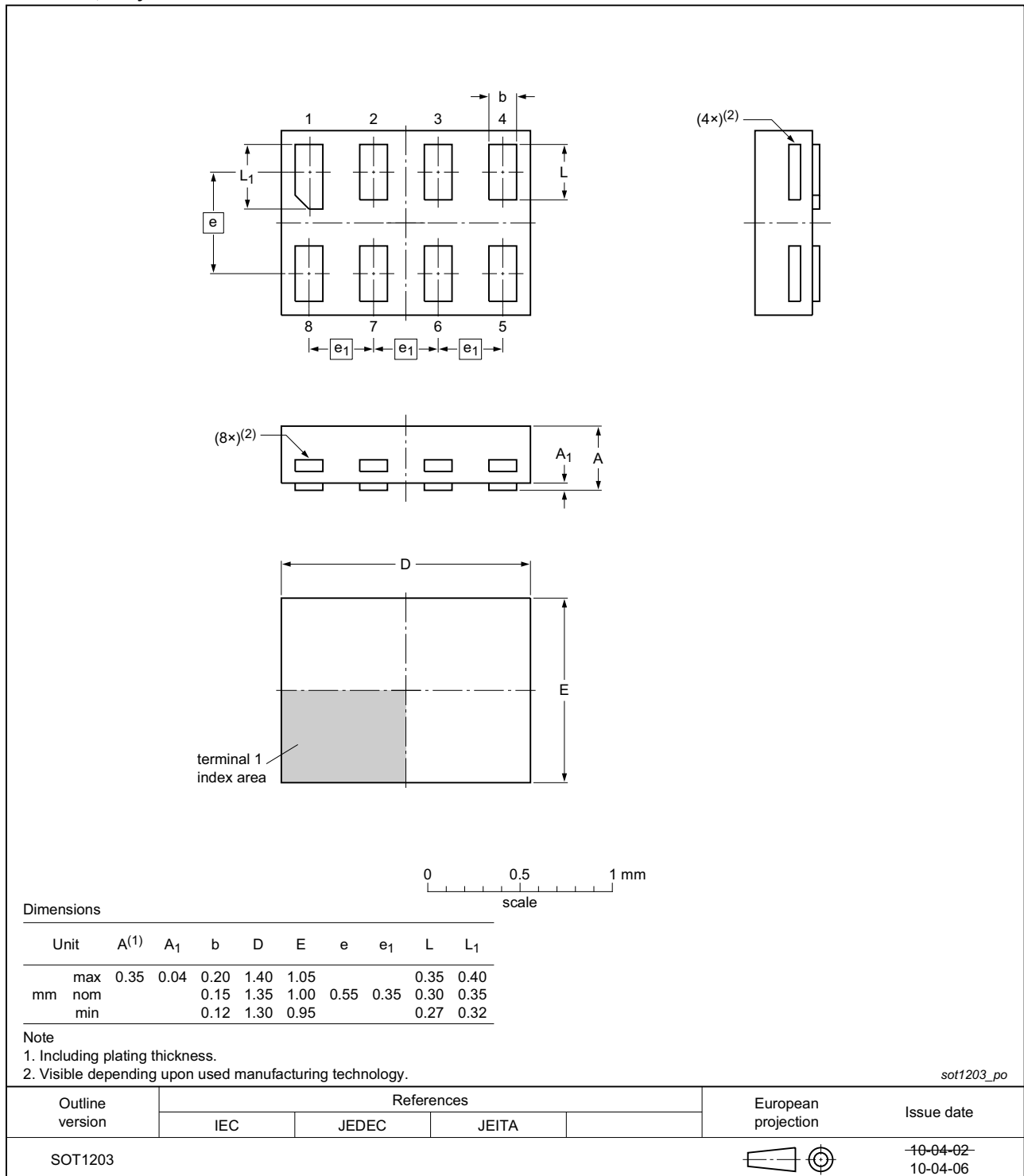


Fig 18. Package outline SOT1203 (XSON8)

14. Abbreviations

Table 12. Abbreviations

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

15. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G74 v.13	20161205	Product data sheet	-	74LVC1G74 v.12
Modifications:	<ul style="list-style-type: none"> Table 8: The maximum limits for leakage current and supply current have changed. 			
74LVC1G74 v.12	20130402	Product data sheet	-	74LVC1G74 v.11
Modifications:	<ul style="list-style-type: none"> For type number 74LVC1G74GD XSON8U has changed to XSON8. 			
74LVC1G74 v.11	20120604	Product data sheet	-	74LVC1G74 v.10
Modifications:	<ul style="list-style-type: none"> For type number 74LVC1G74GM the SOT code has changed to SOT902-2. 			
74LVC1G74 v.10	20111202	Product data sheet	-	74LVC1G74 v.9
Modifications:	<ul style="list-style-type: none"> Legal pages updated. 			
74LVC1G74 v.9	20100805	Product data sheet	-	74LVC1G74 v.8
74LVC1G74 v.8	20091203	Product data sheet	-	74LVC1G74 v.7
74LVC1G74 v.7	20080626	Product data sheet	-	74LVC1G74 v.6
74LVC1G74 v.6	20080219	Product data sheet	-	74LVC1G74 v.5
74LVC1G74 v.5	20070809	Product data sheet	-	74LVC1G74 v.4
74LVC1G74 v.4	20061207	Product data sheet	-	74LVC1G74 v.3
74LVC1G74 v.3	20050201	Product specification	-	74LVC1G74 v.2
74LVC1G74 v.2	20040909	Product specification	-	74LVC1G74 v.1
74LVC1G74 v.1	20040202	Product specification	-	-

16. Legal information

16.1 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".

[3] 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 URL <http://www.nexperia.com>.

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