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Low-ohmic single-pole single-throw analog switch

Rev. 3.1 — 17 October 2016

Product data sheet

1. General description

The NX3L1T384 is a low-ohmic single-pole single-throw analog switch. It has two input/output terminals (Y and Z) and an active LOW enable input pin (\overline{E}) . When \overline{E} is HIGH, the analog switch is turned off.

Schmitt trigger action at the enable input (\overline{E}) makes the circuit tolerant to slower input rise and fall times. A low input voltage threshold allows pin \overline{E} to be driven by lower level logic signals without a significant increase in supply current I_{C C}. This makes it possible for the NX3L1T384 to switch 4.3 V signals with a 1.8 V digital controller, eliminating the need for logic level translation.

The NX3L1T384 allows signals with amplitude up to V_{CC} to be transmitted from Y to Z; or from Z to Y. Its low ON resistance (0.5 Ω) and flatness (0.13 Ω) ensures minimal attenuation and distortion of transmitted signals.

2. Features and benefits

- Wide supply voltage range from 1.4 V to 4.3 V
- Very low ON resistance (peak):
 - 1.6 Ω (typical) at V_{CC} = 1.4 V
 - 1.0 Ω (typical) at V_{CC} = 1.65 V
 - 0.55 Ω (typical) at V_{CC} = 2.3 V
 - 0.50 Ω (typical) at V_{CC} = 2.7 V
 - 0.50 Ω (typical) at V_{CC} = 4.3 V
- High noise immunity
- ESD protection:
 - HBM JESD22-A114F Class 3A exceeds 7500 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM AEC-Q100-011 revision B exceeds 1000 V
 - IEC61000-4-2 contact discharge exceeds 4000 V for switch ports
- CMOS low-power consumption
- Latch-up performance exceeds 100 mA per JESD78B Class II Level A
- 1.8 V control logic at V_{CC} = 3.6 V
- Control input accepts voltages above supply voltage
- Very low supply current, even when input is below V_{CC}
- High current handling capability (350 mA continuous current under 3.3 V supply)
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C



3. Applications

- Cell phone
- PDA
- Portable media player

4. Ordering information

Table 1.	Ordering information
----------	----------------------

Type number Package								
	Temperature range	Name	Description	Version				
NX3L1T384GM	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 \times 1.45 \times 0.5 mm	SOT886				

5. Marking

Table 2. Marking codes^[1]

Type number	Marking code
NX3L1T384GM	M3

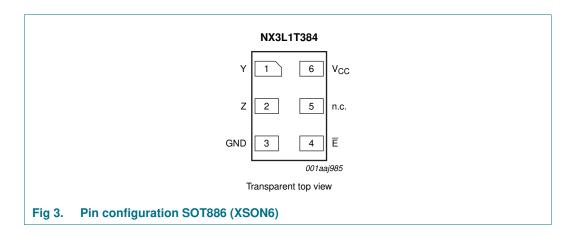
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

6. Functional diagram



7. Pinning information

7.1 Pinning



7.2 Pin description

Table 3. Pin description

The second					
Symbol	Pin	Description			
Y	1	independent input or output			
Z	2	independent output or input			
GND	3	ground (0 V)			
Ē	4	enable input (active LOW)			
n.c.	5	not connected			
V _{CC}	6	supply voltage			

8. Functional description

Table 4.Function table

Input E	Switch
L	ON-state
Н	OFF-state

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

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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	+4.6	V
VI	input voltage	enable input E	-0.5	+4.6	V
V _{SW}	switch voltage	[2]	-0.5	$V_{CC} + 0.5$	٧
l _{IK}	input clamping current	$V_{I} < -0.5 V$	-50	-	mA
I _{SK}	switch clamping current	$V_I < -0.5$ V or $V_I > V_{CC} + 0.5$ V	-	±50	mA
I _{SW}	switch current	V_{SW} > -0.5 V or V_{SW} < V_{CC} + 0.5 V; source or sink current	-	±350	mA
		V_{SW} > -0.5 V or V_{SW} < V_{CC} + 0.5 V; pulsed at 1 ms duration, < 10 % duty cycle; peak current	-	±500	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C} $	-	250	mW

[1] The minimum input voltage rating may be exceeded if the input current rating is observed.

[2] The minimum and maximum switch voltage ratings may be exceeded if the switch clamping current rating is observed but may not exceed 4.6 V.

[3] For TSSOP5 package: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K. For XSON6 package: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

10. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		1.4	4.3	V
VI	input voltage	enable input E	0	4.3	V
V _{SW}	switch voltage	[1]	0	V _{CC}	V
T _{amb}	ambient temperature		-40	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	V _{CC} = 1.4 V to 4.3 V [2]	-	200	ns/V

[1] To avoid sinking GND current from of terminal Z when switch current flows in terminal Y, the voltage drop across the bidirectional switch must not exceed 0.4 V. If the switch current flows into terminal Z, no GND current will flow from terminal Y. In this case, there is no limit for the voltage drop across the switch.

[2] Applies to control signal levels.

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11. Static characteristics

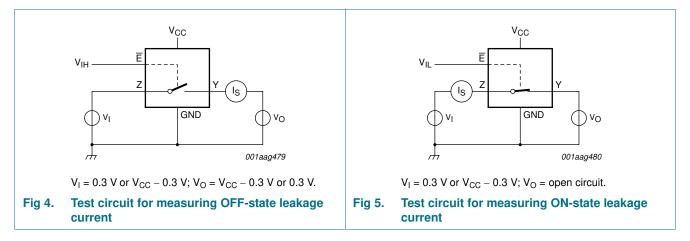
Table 7. Static characteristics

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

Symbol	Parameter	Conditions		25 °C			–40 °C to +125 °C		
			Min	Тур	Мах	Min	Max (85 °C)	Max (125 °C)	
V _{IH}	HIGH-level	V _{CC} = 1.4 V to 1.6 V	0.9	-	-	0.9	-	-	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	0.9	-	-	0.9	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.1	-	-	1.1	-	-	V
		V _{CC} = 2.7 V to 3.6 V	1.3	-	-	1.3	-	-	V
		V _{CC} = 3.6 V to 4.3 V	1.4	-	-	1.4	-	-	V
V _{IL}	LOW-level	V _{CC} = 1.4 V to 1.6 V	-	-	0.3	-	0.3	0.3	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.4	-	0.4	0.3	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.4	-	0.4	0.4	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.5	-	0.5	0.5	V
		V _{CC} = 3.6 V to 4.3 V	-	-	0.6	-	0.6	0.6	V
I	input leakage current	enable input \overline{E} ; V ₁ = GND to 4.3 V; V _{CC} = 1.4 V to 4.3 V	-	-	-	-	±0.5	±1	μA
I _{S(OFF)}	OFF-state	Y port; see Figure 4							
le	leakage	V _{CC} = 1.4 V to 3.6 V	-	-	±5	-	±50	±500	nA
	current	V _{CC} = 3.6 V to 4.3 V	-	-	±10	-	±50	±500	nA
I _{S(ON)}	ON-state	Z port; see <u>Figure 5</u>							
	leakage	V _{CC} = 1.4 V to 3.6 V	-	-	±5	-	±50	±500	nA
	current	V _{CC} = 3.6 V to 4.3 V	-	-	±10	-	±50	±500	nA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $V_{SW} = GND$ or V_{CC}							-
		V _{CC} = 3.6 V	-	-	100	-	690	6000	nA
		V _{CC} = 4.3 V	-	-	150	-	800	7000	nA
ΔI_{CC}	additional	$V_{SW} = GND \text{ or } V_{CC}$							
	supply current	$V_{I} = 2.6 \text{ V}; V_{CC} = 4.3 \text{ V}$	-	2.0	4.0	-	7	7	μA
		V _I = 2.6 V; V _{CC} = 3.6 V	-	0.35	0.7	-	1	1	μA
		V _I = 1.8 V; V _{CC} = 4.3 V	-	7.0	10.0	-	15	15	μA
		V _I = 1.8 V; V _{CC} = 3.6 V	-	2.5	4.0	-	5	5	μA
		V _I = 1.8 V; V _{CC} = 2.5 V	-	50	200	-	300	500	nA
CI	input capacitance		-	1.0	-	-	-	-	pF
$C_{S(OFF)}$	OFF-state capacitance		-	35	-	-	-	-	pF
C _{S(ON)}	ON-state capacitance		-	110	-	-	-	-	pF

Low-ohmic single-pole single-throw analog switch

11.1 Test circuits



11.2 ON resistance

Table 8.ON resistance

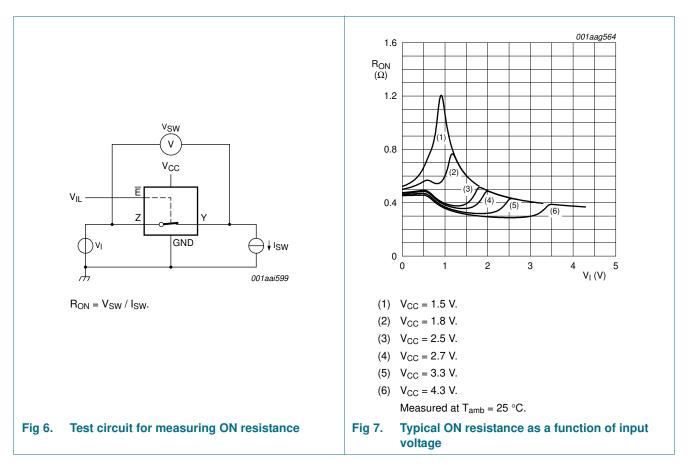
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for graphs see Figure 7 to Figure 13.

Symbol	Parameter	Conditions	T _{amb} = -40 °C to +85 °C			T _{amb} = -40 °	Unit	
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
R _{ON(peak)}	ON resistance (peak)	$V_I = GND$ to V_{CC} ; $I_{SW} = 100$ mA; see <u>Figure 6</u>						
		V _{CC} = 1.4 V	-	1.6	3.7	-	4.1	Ω
		V _{CC} = 1.65 V	-	1.0	1.6	-	1.7	Ω
		V _{CC} = 2.3 V	-	0.55	0.8	-	0.9	Ω
		$V_{CC} = 2.7 V$	-	0.5	0.75	-	0.9	Ω
		$V_{CC} = 4.3 V$	-	0.5	0.75	-	0.9	Ω
R _{ON(flat)}	ON resistance (flatness)	$V_{I} = \text{GND to } V_{CC}; \qquad [2] \\ I_{SW} = 100 \text{ mA}$						
		V _{CC} = 1.4 V	-	1.0	3.3	-	3.6	Ω
		V _{CC} = 1.65 V	-	0.5	1.2	-	1.3	Ω
		V _{CC} = 2.3 V	-	0.15	0.3	-	0.35	Ω
		V _{CC} = 2.7 V	-	0.13	0.3	-	0.35	Ω
		V _{CC} = 4.3 V	-	0.2	0.4	-	0.45	Ω

[1] Typical values are measured at $T_{amb} = 25 \ ^{\circ}C$.

[2] Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V_{CC} and temperature.

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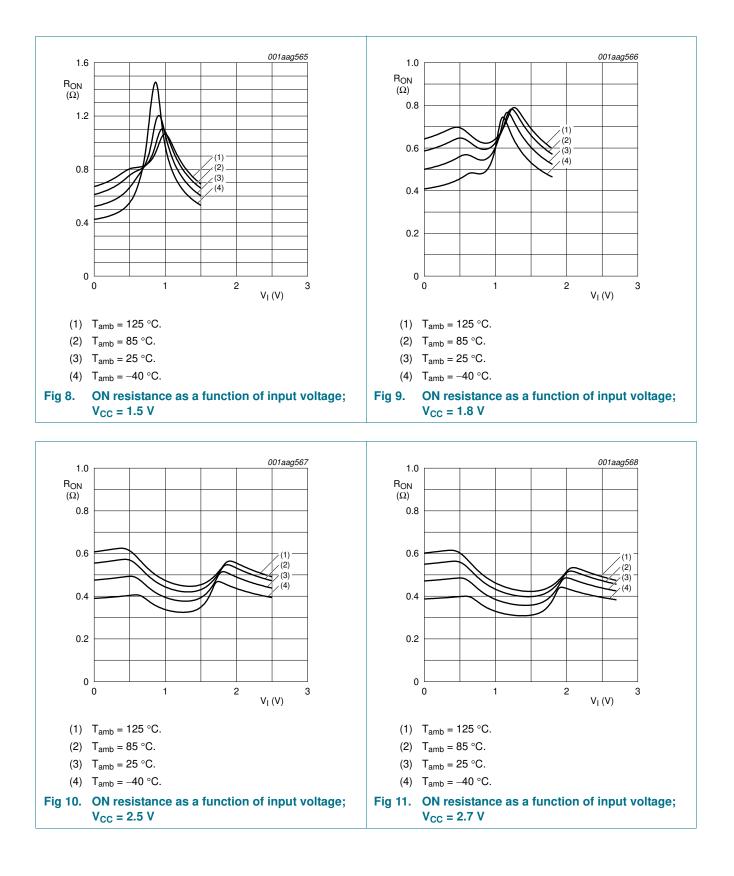


11.3 ON resistance test circuit and graphs

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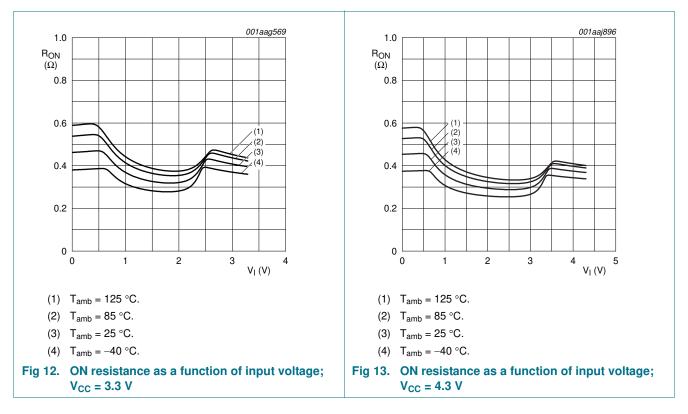
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12. Dynamic characteristics

Table 9. Dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for load circuit see Figure 15.

Symbol	Parameter	Conditions	Ta	_{mb} = 25	°C	T _{amb} =	–40 °C to	+125 °C	Unit
			Min	Typ <mark>[1]</mark>	Мах	Min	Max (85 °C)	Max (125 °C)	
t _{en}	enable time	E to Z or Y; see Figure 14							
		V _{CC} = 1.4 V to 1.6 V	-	50	90	-	120	120	ns
		V _{CC} = 1.65 V to 1.95 V	-	36	70	-	80	90	ns
		$V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$	-	24	45	-	50	55	ns
		$V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	-	22	40	-	45	50	ns
		$V_{CC} = 3.6 \text{ V} \text{ to } 4.3 \text{ V}$	-	22	40	-	45	50	ns
t _{dis}	disable time	E to Z or Y; see Figure 14							
		V _{CC} = 1.4 V to 1.6 V	-	30	45	-	50	60	ns
		V _{CC} = 1.65 V to 1.95 V	-	20	30	-	35	40	ns
		$V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$	-	15	20	-	22	25	ns
		$V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	-	11	15	-	18	22	ns
		$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$	-	11	15	-	18	22	ns

[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.5 V, 1.8 V, 2.5 V, 3.3 V and 4.3 V respectively.

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12.1 Waveform and test circuits

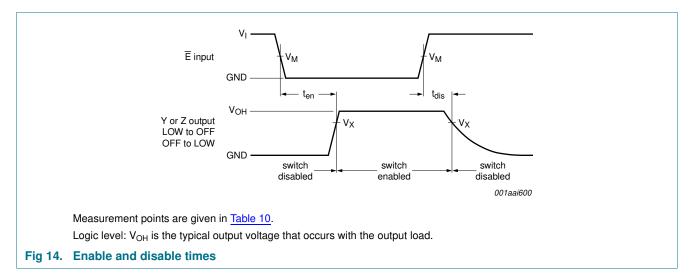


Table 10. Measurement points

Supply voltage	Input	Output	
V _{cc}	V _M	V _X	
1.4 V to 4.3 V	0.5V _{CC}	0.9V _{OH}	

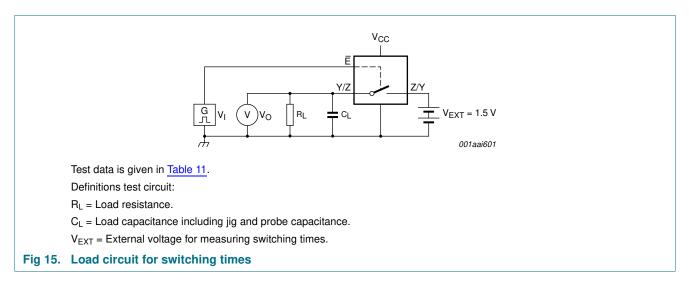


Table 11. Test data

Supply voltage	Input		Load	
V _{cc}	VI	t _r , t _f	CL	RL
1.4 V to 4.3 V	V _{CC}	≤ 2.5 ns	35 pF	50 Ω

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12.2 Additional dynamic characteristics

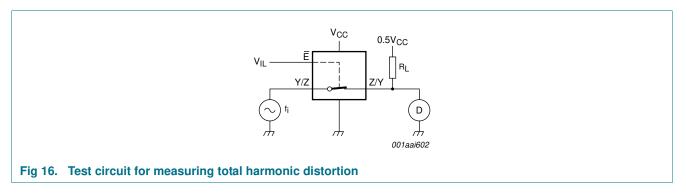
Table 12. Additional dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); $V_I = GND$ or V_{CC} (unless otherwise specified); $t_r = t_f \le 2.5$ ns.

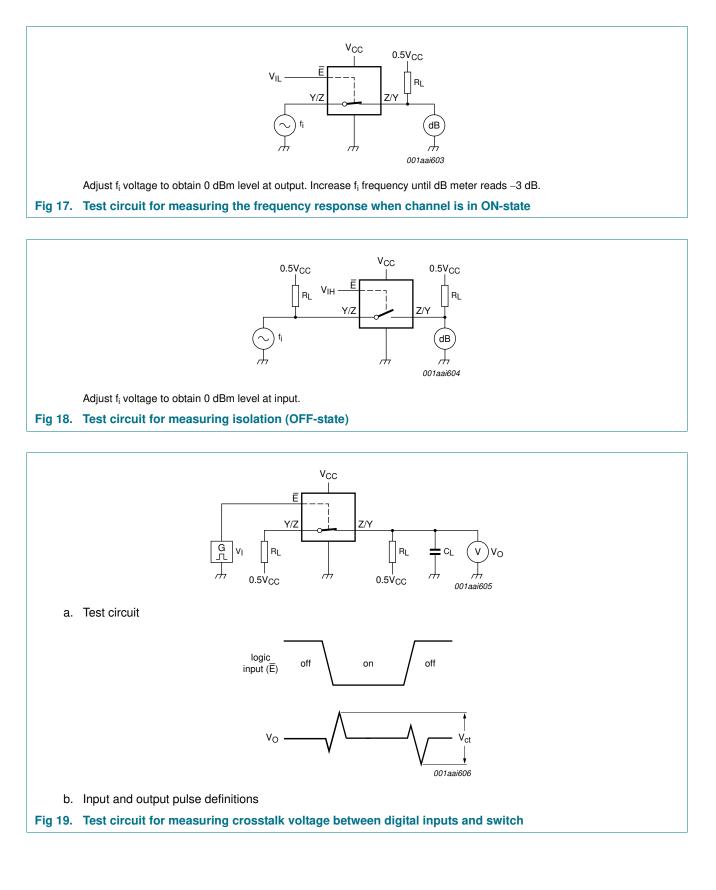
Symbol	Parameter	Conditions		Ta	_{amb} = 25 °C		Unit
				Min	Тур	Max	
THD	total harmonic distortion	f_i = 20 Hz to 20 kHz; R_L = 32 Ω ; see Figure 16	[1]				
		$V_{CC} = 1.4 \text{ V}; \text{ V}_{I} = 1 \text{ V} (p-p)$		-	0.15	-	%
		V _{CC} = 1.65 V; V _I = 1.2 V (p-p)		-	0.10	-	%
		V _{CC} = 2.3 V; V _I = 1.5 V (p-p)		-	0.02	-	%
		$V_{CC} = 2.7 \text{ V}; \text{ V}_{I} = 2 \text{ V} (p-p)$		-	0.02	-	%
		$V_{CC} = 4.3 \text{ V}; \text{ V}_{I} = 2 \text{ V} (p-p)$		-	0.02	-	%
f _(-3dB)	-3 dB frequency response	$R_L = 50 \Omega$; see Figure 17	[1]				
		V _{CC} = 1.4 V to 4.3 V		-	60	-	MHz
α_{iso}	isolation (OFF-state)	$f_i = 100 \text{ kHz}; R_L = 50 \Omega; \text{ see } \frac{\text{Figure 18}}{100 \text{ kHz}}$	[1]				
		V _{CC} = 1.4 V to 4.3 V		-	-90	-	dB
V _{ct}	crosstalk voltage	between digital inputs and switch; $f_i = 1 \text{ MHz}$; $C_L = 50 \text{ pF}$; $R_L = 50 \Omega$; see Figure 19					
		V _{CC} = 1.4 V to 3.6 V		-	0.2	-	V
		V _{CC} = 3.6 V to 4.3 V		-	0.2	-	V
Q _{inj}	charge injection	$ f_i = 1 \text{ MHz}; C_L = 0.1 \text{ nF}; R_L = 1 \text{ M}\Omega; V_{gen} = 0 \text{ V}; \\ R_{gen} = 0 \Omega; \text{ see } \underline{Figure 20} $					
		V _{CC} = 1.5 V		-	3	-	рС
		V _{CC} = 1.8 V		-	3	-	рС
		V _{CC} = 2.5 V		-	3	-	рС
		V _{CC} = 3.3 V		-	3	-	рС
		V _{CC} = 4.3 V		-	6	-	рС

[1] f_i is biased at 0.5V_{CC}.

12.3 Test circuits



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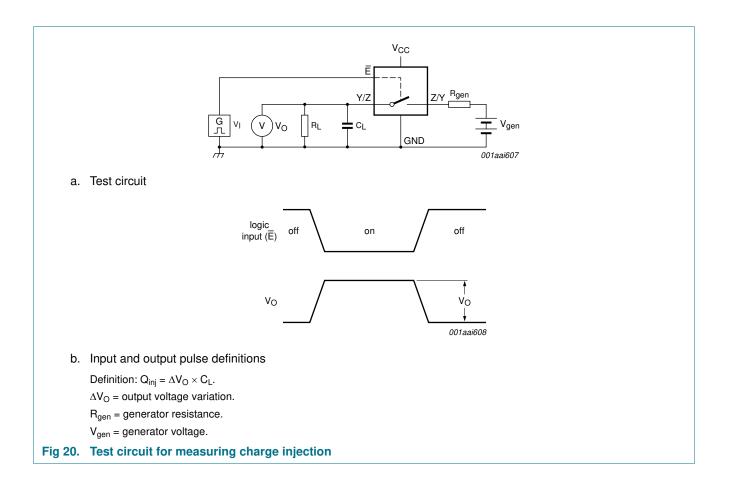


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13. Package outline

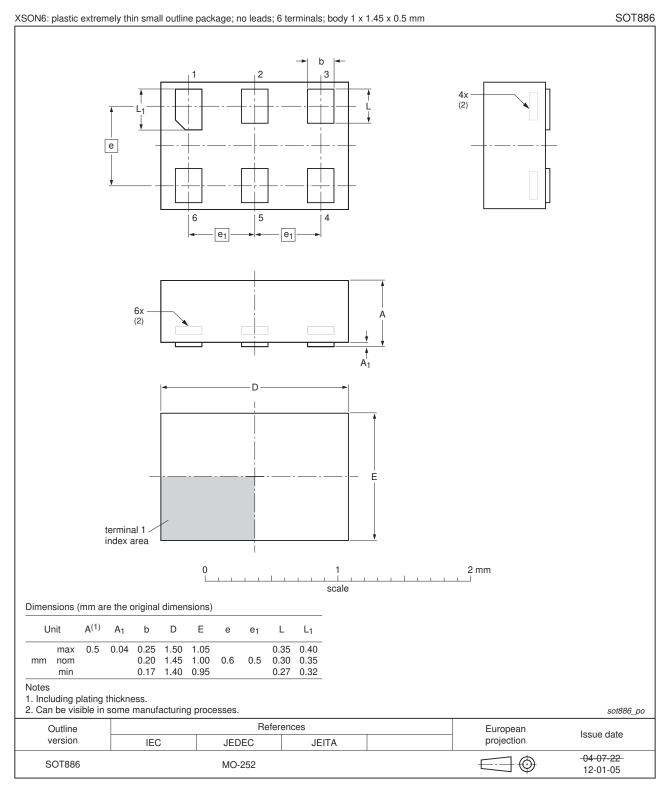


Fig 21. Package outline SOT886 (XSON6)

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14. Abbreviations

Table 13. Abbreviations			
Acronym	Description		
CDM	Charged-Device Model		
CMOS	Complementary Metal-Oxide Semiconductor		
ESD	ElectroStatic Discharge		
HBM	Human Body Model		
MM	Machine Model		
PDA	Personal Digital Assistant		

15. Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
NX3L1T384 v.3.1	20161017	Product data sheet	-	NX3L1T384 v.3
Modifications:	Removed I	NX3L1T384GW	·	
NX3L1T384 v.3	20111109	Product data sheet	-	NX3L1T384 v.2
Modifications:	Legal page	es updated	I	
NX3L1T384 v.2	20110107	Product data sheet	-	NX3L1T384 v.1
NX3L1T384 v.1	20090929	Product data sheet	-	-

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.nxp.com.

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Low-ohmic single-pole single-throw analog switch

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