NX3L1T5157

Low-ohmic single-pole double-throw analog switch

Rev. 6.1 — 30 November 2016

Product data sheet

1. General description

The NX3L1T5157 is a low-ohmic single-pole double-throw analog switch suitable for use as an analog or digital 2:1 multiplexer/demultiplexer. It has a digital select input (S), two independent inputs/outputs (Y0 and Y1) and a common input/output (Z).

Schmitt trigger action at the digital input makes the circuit tolerant to slower input rise and fall times. Low threshold digital input allows this device to be driven by 1.8 V logic levels in 3.3 V applications without significant increase in supply current I_{CC} . This makes it possible for the NX3L1T5157 to switch 4.3 V signals with a 1.8 V digital controller, eliminating the need for logic level translation. The NX3L1T5157 allows signals with amplitude up to V_{CC} to be transmitted from Z to Y0 or Y1, or from Y0 or Y1 to Z. 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 $V_{CC} = 1.4 \text{ V}$
 - 1.0 Ω (typical) at $V_{CC} = 1.65 \text{ V}$
 - 0.55 Ω (typical) at $V_{CC} = 2.3 \text{ V}$
 - 0.50 Ω (typical) at V_{CC} = 2.7 V
 - 0.50 Ω (typical) at $V_{CC} = 4.3 \text{ V}$
- Break-before-make switching
- 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 8000 V for switch ports
- CMOS low-power consumption
- Latch-up performance exceeds 100 mA per JESD78 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



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3. Applications

- Cell phone
- PDA
- Portable media player

4. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
NX3L1T5157GM	–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

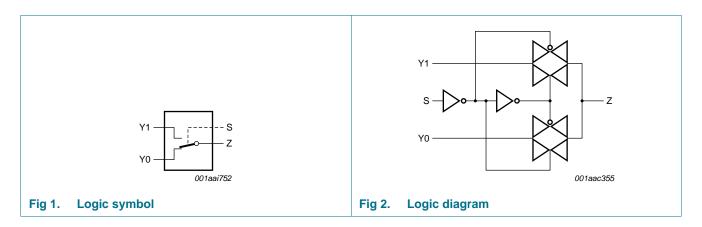
5. Marking

Table 2. Marking codes[1]

Type number	Marking code
NX3L1T5157GM	DI

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

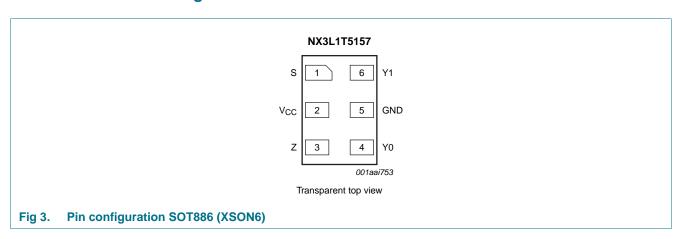
6. Functional diagram



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7. Pinning information

7.1 Pinning



7.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
S	1	select input
V _{CC}	2	supply voltage
Z	3	common input or output
Y0	4	independent input or output
GND	5	ground (0 V)
Y1	6	independent input or output

8. Functional description

Table 4. Function table[1]

Input S	Channel on
L	Y0
Н	Y1

[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	select input S	-0.5	+4.6	V
V _{SW}	switch voltage	[2]	-0.5	$V_{CC} + 0.5$	V
I _{IK}	input clamping current	$V_{I} < -0.5 \text{ V}$	-50	-	mA
I _{SK}	switch clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	-	±50	mA
I _{SW}	switch current	$V_{SW} > -0.5 \text{ V or } V_{SW} < V_{CC} + 0.5 \text{ V};$ 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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	-	250	mW

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

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	select input S	0	4.3	V
V_{SW}	switch voltage	[1]	0	V _{CC}	V
T _{amb}	ambient temperature		-40	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$ [2]	-	200	ns/V

^[1] To avoid sinking GND current from terminal Z when switch current flows in terminal Yn, 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 Yn. In this case, there is no limit for the voltage drop across the switch.

^[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 XSON6 package: above 118 °C the value of Ptot derates linearly with 7.8 mW/K.

^[2] Applies to control signal levels.

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11. Static characteristics

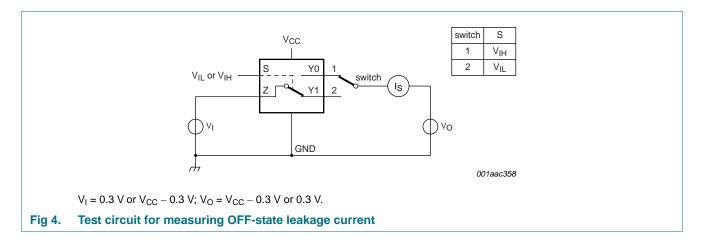
Table 7. Static characteristics

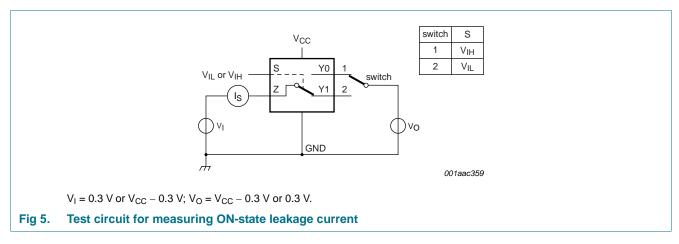
At recommended operating conditions; voltages are referenced to GND (ground 0 V).

Symbol	Parameter	Conditions	Ta	T _{amb} = 25 °C			$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$		
			Min	Тур	Max	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
l _l	input leakage current	select input S; V _I = GND to 4.3 V; V _{CC} = 1.4 V to 4.3 V	-	-	-	-	±0.5	±1	μА
I _{S(OFF)} OFF-state leakage	_	Y0 and Y1 port; see Figure 4							
	current	V _{CC} = 1.4 V to 3.6 V	-	-	±5	-	±50	±500	nA
		$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$	-	-	±10	-	±50	±500	nA
I _{S(ON)}	ON-state	Z port; see Figure 5							
	leakage current	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	μΑ
		V _I = 2.6 V; V _{CC} = 3.6 V	-	0.35	0.7	-	1	1	μΑ
		V _I = 1.8 V; V _{CC} = 4.3 V	-	7.0	10.0	-	15	15	μΑ
		V _I = 1.8 V; V _{CC} = 3.6 V	-	2.5	4.0	-	5	5	μΑ
		V _I = 1.8 V; V _{CC} = 2.5 V	-	50	200	-	300	500	nA
Cı	input capacitance		-	1.0	-	-	-	-	pF
C _{S(OFF)}	OFF-state capacitance		-	35	-	-	-	-	pF
C _{S(ON)}	ON-state capacitance		-	130	-	-	-	-	pF

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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			$T_{amb} = -40 ^{\circ}$	C to +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
R _{ON(peak)}	ON resistance (peak)	V_I = GND to V_{CC} ; I_{SW} = 100 mA; see Figure 6						
		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

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Table 8. ON resistance ... continued

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[1]	Max	Min	Max	
ΔR_{ON}	ON resistance mismatch	$V_I = GND \text{ to } V_{CC};$ [2] $I_{SW} = 100 \text{ mA}$						
	between channels	V _{CC} = 1.4 V	-	0.04	0.3	-	0.3	Ω
	Chamileis	V _{CC} = 1.65 V	-	0.04	0.2	-	0.3	Ω
		V _{CC} = 2.3 V	-	0.02	0.08	-	0.1	Ω
		V _{CC} = 2.7 V	-	0.02	0.075	-	0.1	Ω
		V _{CC} = 4.3 V	-	0.02	0.075	-	0.1	Ω
R _{ON(flat)}	ON resistance (flatness)	$V_I = GND \text{ to } V_{CC};$ [3] $I_{SW} = 100 \text{ mA}$						
		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

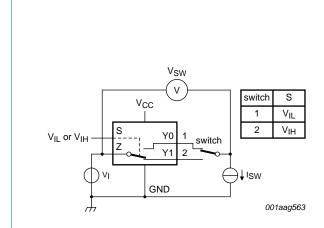
^[1] Typical values are measured at T_{amb} = 25 °C.

^[2] Measured at identical V_{CC}, temperature and input voltage.

^[3] Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V_{CC} and temperature.

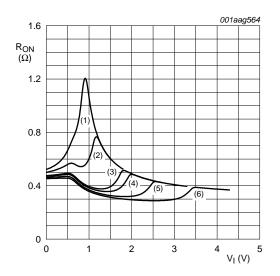
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11.3 ON resistance test circuit and graphs



 $R_{ON} = V_{SW} / I_{SW}$.

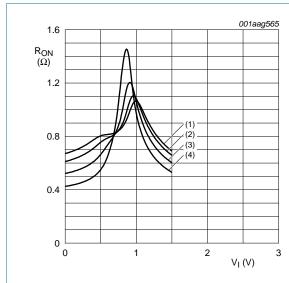
Fig 6. Test circuit for measuring ON resistance



- (1) $V_{CC} = 1.5 \text{ V}.$
- (2) $V_{CC} = 1.8 \text{ V}.$
- (3) $V_{CC} = 2.5 \text{ V}.$
- (4) $V_{CC} = 2.7 \text{ V}.$
- (5) $V_{CC} = 3.3 \text{ V}.$ (6) $V_{CC} = 4.3 \text{ V}.$
 - Measured at T_{amb} = 25 °C.

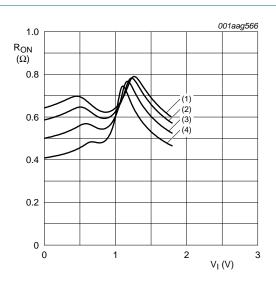
Fig 7. Typical ON resistance as a function of input voltage

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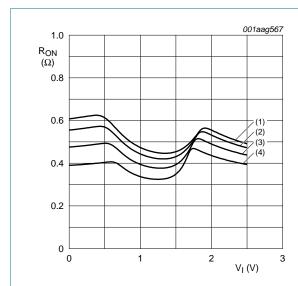
- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

Fig 8. ON resistance as a function of input voltage; $V_{CC} = 1.5 \text{ V}$



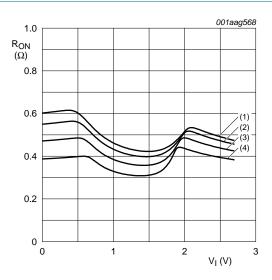
- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

Fig 9. ON resistance as a function of input voltage; $V_{CC} = 1.8 \text{ V}$



- (1) $T_{amb} = 125 \, ^{\circ}C.$
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

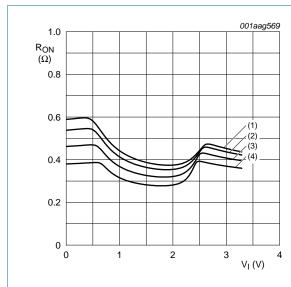
Fig 10. ON resistance as a function of input voltage; $V_{CC} = 2.5 \text{ V}$



- (1) $T_{amb} = 125 \,^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

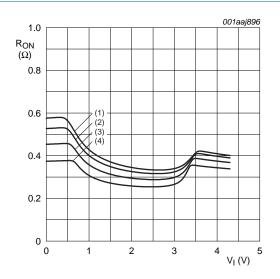
Fig 11. ON resistance as a function of input voltage; $V_{CC} = 2.7 \text{ V}$

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- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

Fig 12. ON resistance as a function of input voltage; $V_{CC} = 3.3 \text{ V}$



- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

Fig 13. ON resistance as a function of input voltage; $V_{CC} = 4.3 \text{ V}$

12. Dynamic characteristics

Table 9. Dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for load circuit see <u>Figure 16</u>.

Symbol	Parameter	Conditions	25 °C		-40	°C to +12	5 °C	Unit	
			Min	Typ[1]	Max	Min	Max (85 °C)	Max (125 °C)	
t _{en}	enable time	S to Z or Yn; 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 V to 2.7 V	-	24	45	-	50	55	ns
		V _{CC} = 2.7 V to 3.6 V	-	22	40	-	45	50	ns
		V _{CC} = 3.6 V to 4.3 V	-	22	40	-	45	50	ns
t _{dis}	disable time	S to Z or Yn; see Figure 14							
		V _{CC} = 1.4 V to 1.6 V	-	32	70	-	80	90	ns
		V _{CC} = 1.65 V to 1.95 V	-	20	55	-	60	65	ns
		V _{CC} = 2.3 V to 2.7 V	-	12	25	-	30	35	ns
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	10	20	-	25	30	ns
		$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$	-	10	20	-	25	30	ns

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 Table 9.
 Dynamic characteristics ...continued

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for load circuit see Figure 16.

Symbol	Parameter	Conditions	25 °C		-40 °C to +125 °C			Unit	
			Min	Typ[1]	Max	Min	Max (85 °C)	Max (125 °C)	
t _{b-m}		see Figure 15 [2]							
	time	V _{CC} = 1.4 V to 1.6 V	-	19	-	9	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	-	17	-	7	-	-	ns
		V _{CC} = 2.3 V to 2.7 V	-	13	-	4	-	-	ns
		V _{CC} = 2.7 V to 3.6 V	-	10	-	3	-	-	ns
		V _{CC} = 3.6 V to 4.3 V	-	10	-	2	-	-	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.
- [2] Break-before-make guaranteed by design.

12.1 Waveform and test circuits

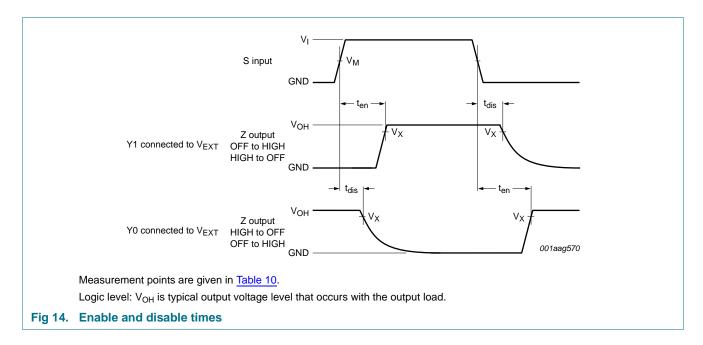
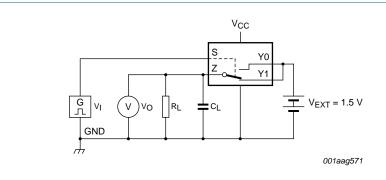


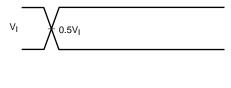
Table 10. Measurement points

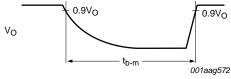
Supply voltage	Input	Output
V _{CC}	V _M	V_X
1.4 V to 4.3 V	0.5V _{CC}	0.9V _{OH}

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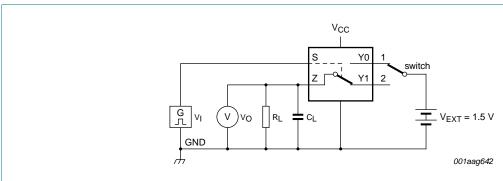
a. Test circuit





b. Input and output measurement points

Fig 15. Test circuit for measuring break-before-make timing



Test data is given in Table 11.

Definitions test circuit:

R_L = Load resistance.

C_L = Load capacitance including jig and probe capacitance.

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

Fig 16. Load circuit for switching times

Table 11. Test data

Supply voltage	Input		Load	
V _{CC}	VI	t _r , t _f	CL	R _L
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

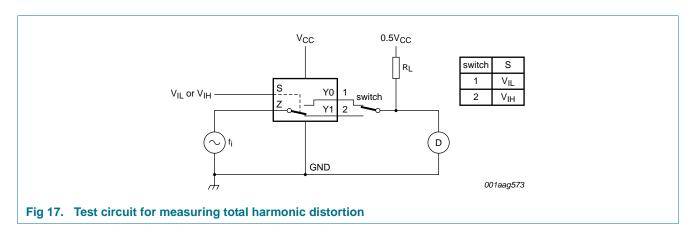
Table 12. Additional dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); $V_I = \text{GND}$ or V_{CC} (unless otherwise specified); $t_r = t_f \le 2.5$ ns; $T_{amb} = 25$ °C.

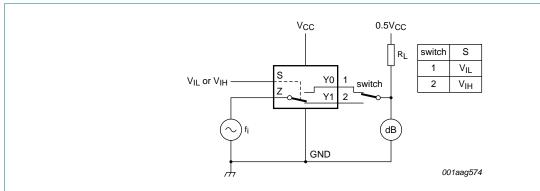
Symbol	Parameter	Conditions		Min	Тур	Max	Unit
THD	total harmonic	f_i = 20 Hz to 20 kHz; R_L = 32 Ω ; see Figure 17	<u>[1]</u>				
	distortion	V _{CC} = 1.4 V; V _I = 1 V (p-p)		-	0.15	-	%
		V _{CC} = 1.65 V; V _I = 1.2 V (p-p)		-	0.10	-	%
		$V_{CC} = 2.3 \text{ V}; V_I = 1.5 \text{ V (p-p)}$		-	0.02	-	%
		$V_{CC} = 2.7 \text{ V}; V_I = 2 \text{ V (p-p)}$		-	0.02	-	%
		$V_{CC} = 4.3 \text{ V}; V_I = 2 \text{ V (p-p)}$		-	0.02	-	%
f _(-3dB)	-3 dB frequency	$R_L = 50 \Omega$; see Figure 18	<u>[1]</u>				
	response	V _{CC} = 1.4 V to 4.3 V		-	60	-	MHz
α_{iso}	isolation (OFF-state)	$f_i = 100 \text{ kHz}$; $R_L = 50 \Omega$; see Figure 19	<u>[1]</u>				
		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 20						
		V _{CC} = 1.4 V to 3.6 V		-	0.2	-	V
		V _{CC} = 3.6 V to 4.3 V		-	0.3	-	V
Q _{inj}	charge injection	f_i = 1 MHz; C_L = 0.1 nF; R_L = 1 M Ω ; V_{gen} = 0 V; R_{gen} = 0 Ω ; see Figure 21					
		V _{CC} = 1.5 V		-	3	-	рС
		V _{CC} = 1.8 V		-	4	-	рС
		V _{CC} = 2.5 V		-	6	-	рС
		V _{CC} = 3.3 V		-	9	-	рС
		V _{CC} = 4.3 V		-	15	-	рС
		V _{CC} = 4.3 V		-	15	-	

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

12.3 Test circuits



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Adjust f_i voltage to obtain 0 dBm level at output. Increase f_i frequency until dB meter reads -3 dB.

Fig 18. Test circuit for measuring the frequency response when channel is in ON-state

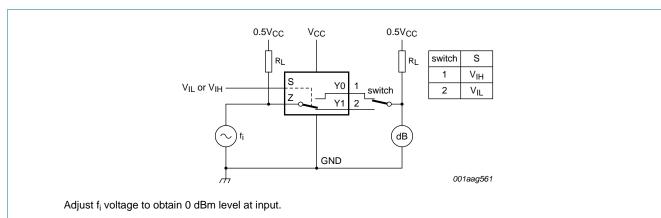
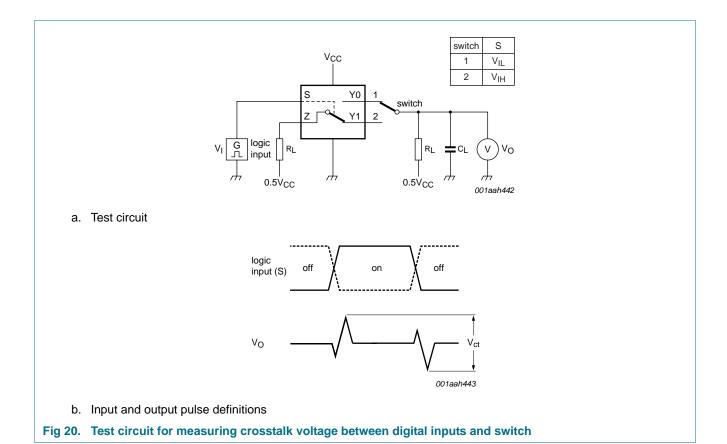
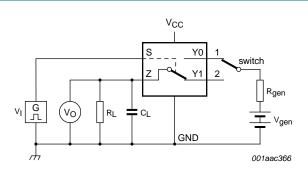


Fig 19. Test circuit for measuring isolation (OFF-state)

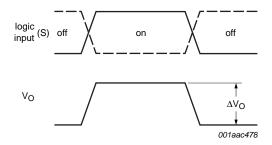
Low-ohmic single-pole double-throw analog switch



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a. Test circuit



b. Input and output pulse definitions

Definition: $Q_{inj} = \Delta V_O \times C_L$.

 ΔV_{O} = output voltage variation.

 R_{gen} = generator resistance.

 V_{gen} = generator voltage.

Fig 21. Test circuit for measuring charge injection

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13. Package outline

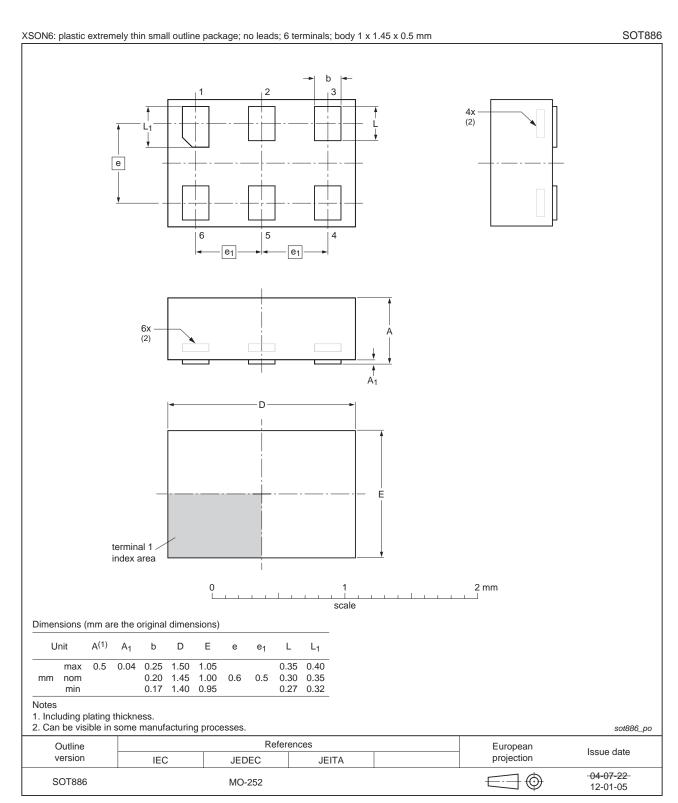


Fig 22. Package outline SOT886 (XSON6)

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14. Packing information

14.1 XSON6; Reel pack; SMD, 7" Q1/T1 Standard product orientation; Orderable part number ending ,115 or Ordering code (12NC) ending 115

14.1.1 Packing method

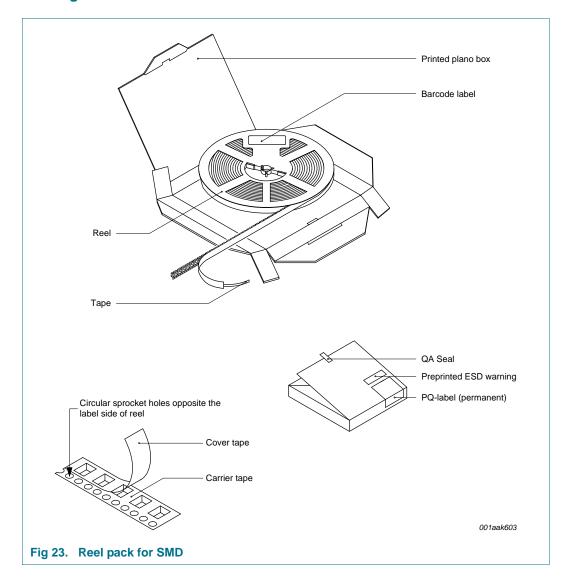
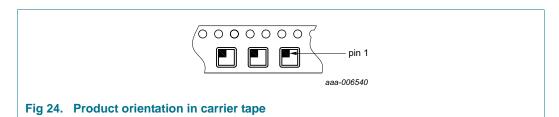


Table 13. Dimensions and quantities

Reel dimensions	SPQ/PQ		Outer box dimensions
d x w (mm)	(pcs)		I x w x h (mm)
180 x 8	5000	1	186 x 186 x 17

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14.1.2 Product orientation



14.1.3 Carrier tape dimensions

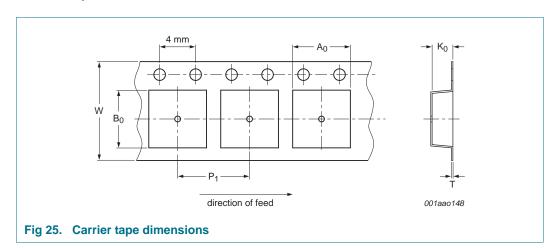


Table 14. Carrier tape dimensions

In accordance with IEC 60286-3.

A ₀ (mm)	B ₀ (mm)	K ₀ (mm)	T (mm)	P ₁ (mm)	W (mm)
1.2	1.6	0.63	-	4	8

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14.1.4 Reel dimensions

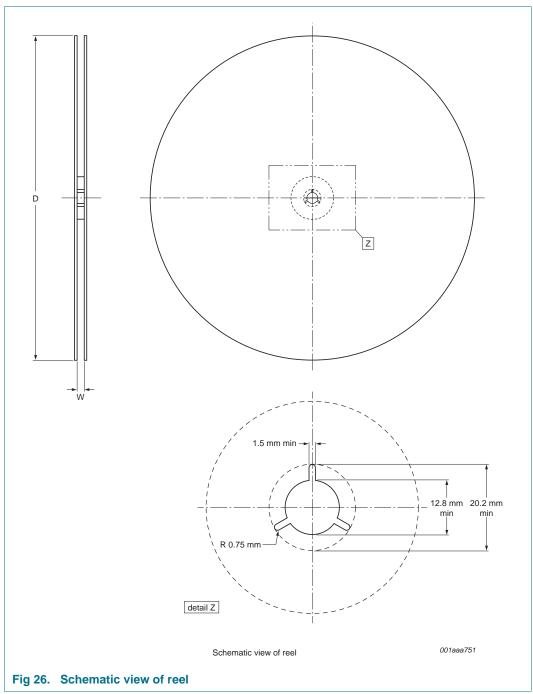


Table 15. Reel dimensions
In accordance with IEC 60286-3.

D (mm)	W (mm)
180	8

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14.1.5 Barcode label

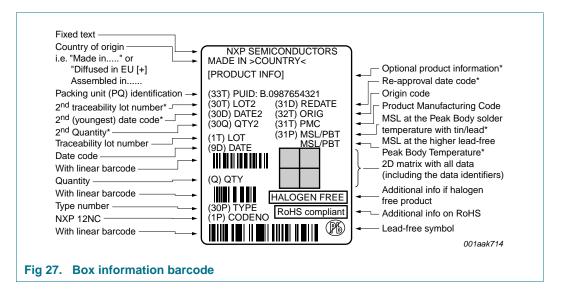




Table 16. Barcode dimensions

	Reel barcode label I x w (mm)
100 x 75	35 x 75

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14.2 XSON6; reel pack; standard product orientation; 12NC ending 132

14.2.1 Packing method

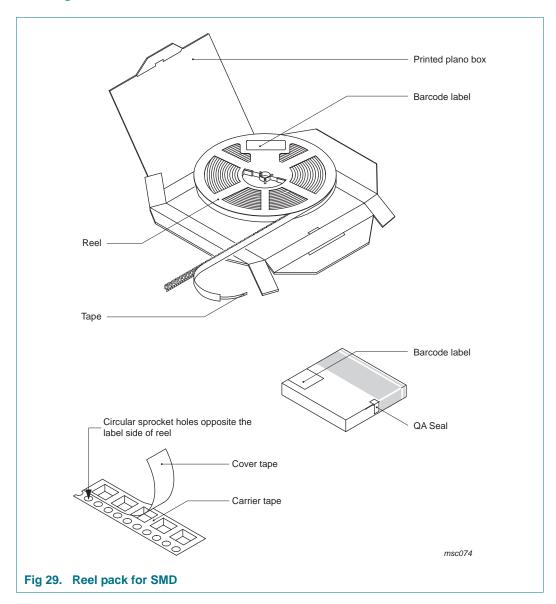


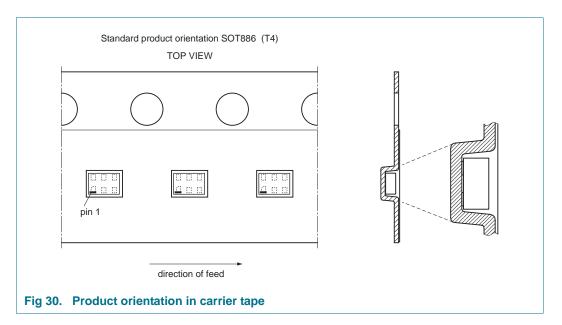
Table 17. Packing information

Package version	12NC ending	Reel dimensions d x w (mm) [1]	SPQ/PQ (pcs)		Outer box dimensions I x w x h (mm)
NX3L1T5157	132	180 x 8	5000	1	186 x 186 x 17

[1] d = reel diameter; w = tape width.

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14.2.2 Product orientation



14.2.3 Carrier tape dimensions

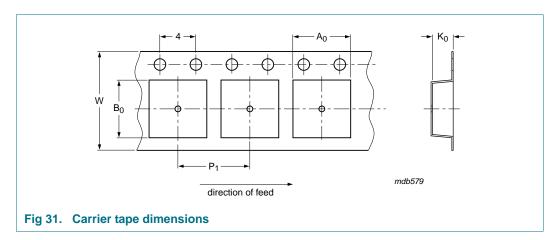


Table 18. Carrier tape dimensions

In accordance with IEC 60286-3.

A ₀ (mm)	B ₀ (mm)	K ₀ (mm)	T (mm)	P ₁ (mm)	W (mm)
1.67	1.17	0.63	-	4.0	8

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15. Abbreviations

Table 19. 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

16. Revision history

Table 20. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
NX3L1T5157 v.6.1	20161130	Product data sheet	-	NX3L1T5157 v.6
Modifications:	Added Sec	tion 14 "Packing information	"	,
NX3L1T5157 v.6	20111108	Product data sheet	-	NX3L1T5157 v.5
Modifications:	Legal page	s updated.		,
NX3L1T5157 v.5	20110728	Product data sheet	-	NX3L1T5157 v.4
NX3L1T5157 v.4	20100324	Product data sheet	-	NX3L1T5157 v.3
NX3L1T5157 v.3	20100208	Product data sheet	-	NX3L1T5157 v.2
NX3L1T5157 v.2	20090417	Product data sheet	-	NX3L1T5157 v.1
NX3L1T5157 v.1	20080916	Product data sheet	-	-

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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.
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