Low-ohmic single-pole single-throw analog switch

Rev. 8 — 9 November 2011

Product data sheet

1. General description

The NX3L1G66 is a low-ohmic single-pole single-throw analog switch. It has two input/output terminals (Y and Z) and an active HIGH enable input pin (E). When E is LOW, the analog switch is turned off.

Schmitt trigger action at the enable input (E) makes the circuit tolerant to slower input rise and fall times. The NX3L1G66 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 JESD 78 Class II Level A
- Direct interface with TTL levels at 3.0 V
- Control input accepts voltages above supply voltage
- 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

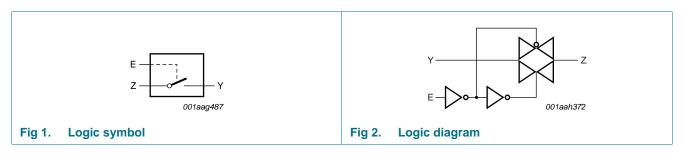
Table 1. Ordering information									
Type number Package									
	Temperature range	Name	Description	Version					
NX3L1G66GW	–40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1					
NX3L1G66GM	–40 °C to +125 °C	XSON6	plastic extremely thin small 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
NX3L1G66GW	DL
NX3L1G66GM	DL

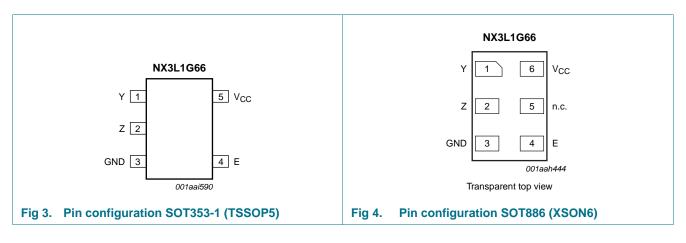
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

6. Functional diagram



7. Pinning information

7.1 Pinning



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SymbolPinDescriptionSOT353-1SOT886Y11Z2independent input or outputZ2independent output or inputGND33E44n.c5V _{CC} 56	Table 3. Pin description								
Y11independent input or outputZ22independent output or inputGND33ground (0 V)E44enable input (active HIGH)n.c5not connected	Symbol	ool Pin Description		Description					
Z22independent output or inputGND33ground (0 V)E44enable input (active HIGH)n.c5not connected		SOT353-1	SOT886						
GND33ground (0 V)E44enable input (active HIGH)n.c5not connected	Υ	1	1	independent input or output					
E44enable input (active HIGH)n.c5not connected	Z	2	2	independent output or input					
n.c 5 not connected	GND	3	3	ground (0 V)					
	E	4	4	enable input (active HIGH)					
V _{CC} 5 6 supply voltage	n.c.	-	5	not connected					
	V _{CC}	5	6	supply voltage					

7.2 Pin description

8. Functional description

Table 4. Function table^[1]

Input E	Switch
L	OFF-state
Н	ON-state

[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	+4.6	V
VI	input voltage	enable input E	<u>[1]</u> –0.5	+4.6	V
V _{SW}	switch voltage		<u>[2]</u> –0.5	V _{CC} + 0.5	V
I _{IK}	input clamping current	$V_{l} < -0.5 V$	-50	-	mA
I _{SK}	switch clamping current	$V_{\rm I} < -0.5$ V or $V_{\rm I} > V_{\rm CC}$ + 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 °C to +125 °C	<u>[3]</u>	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

SymbolParameterConditionsMin V_{CC} supply voltage1.4 V_1 input voltageenable input E0 V_{SW} switch voltage11 T_{amb} ambient temperature-40		
VIinput voltageenable input E0VSWswitch voltage[1]0	Max	Unit
V _{SW} switch voltage [1] 0	4.3	V
	4.3	V
T _{amb} ambient temperature -40	V_{CC}	V
ramb ambient temperature	+125	°C
$\Delta t/\Delta V$ input transition rise and fall rate $V_{CC} = 1.4 V \text{ to } 4.3 V$ [2] -	200	ns/V

[1] To avoid sinking GND current from 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.

11. Static characteristics

Table 7.Static characteristics

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

Symbol	Parameter	Conditions	Tar	_{mb} = 25	o °C	T _{amb} = -	–40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max (85 °C)	Max (125 °C)	
V _{IH}	HIGH-level	V _{CC} = 1.4 V to 1.95 V	$0.65V_{CC}$	-	-	$0.65V_{CC}$	-	-	V
	input voltage	V_{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	-	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2.0	-	-	2.0	-	-	V
		$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$	$0.7V_{CC}$	-	-	$0.7V_{CC}$	-	-	V
V _{IL}	LOW-level	V_{CC} = 1.4 V to 1.95 V	-	-	$0.35V_{CC}$	-	$0.35V_{CC}$	$0.35V_{CC}$	V
	input voltage	V_{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	0.7	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	0.8	-	0.8	0.8	V
		V_{CC} = 3.6 V to 4.3 V	-	-	$0.3V_{CC}$	-	$0.3V_{CC}$	$0.3V_{CC}$	V
I	input leakage current	enable input E; V _I = 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 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 _{S(ON)}	ON-state	Z port; see Figure 6							
	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

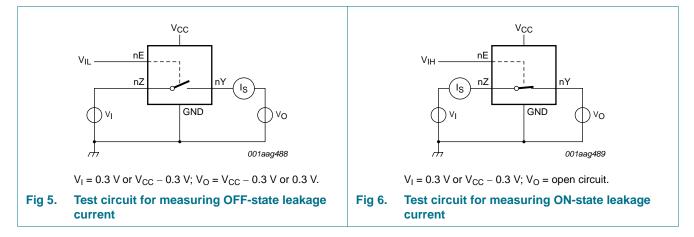
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Table 7. Static characteristics ...continued

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

Symbol	Parameter Conditions		Ta	_{mb} = 25	°C	T _{amb} =	Unit		
			Min	Тур	Мах	Min	Max (85 °C)	Max (125 °C)	
CI	input capacitance		-	1.0	-	-	-	-	pF
$C_{\text{S(OFF)}}$	OFF-state capacitance		-	35	-	-	-	-	pF
C _{S(ON)}	ON-state capacitance		-	110	-	-	-	-	pF

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 8 to Figure 14.

Symbol	Parameter	Conditions	T _{amb} =	–40 °C to	+85 °C	T _{amb} = -40 °	C to +125 °C	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Мах]
R _{ON(peak)}	ON resistance (peak)	$V_I = GND$ to V_{CC} ; $I_{SW} = 100 \text{ mA}$; see <u>Figure 7</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

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Symbol	Parameter	Conditions	T _{amb} =	–40 °C to	+85 °C	T _{amb} = -40 °	C to +125 °C	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
R _{ON(flat)}	ON resistance (flatness)	$V_I = GND \text{ to } V_{CC};$ [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

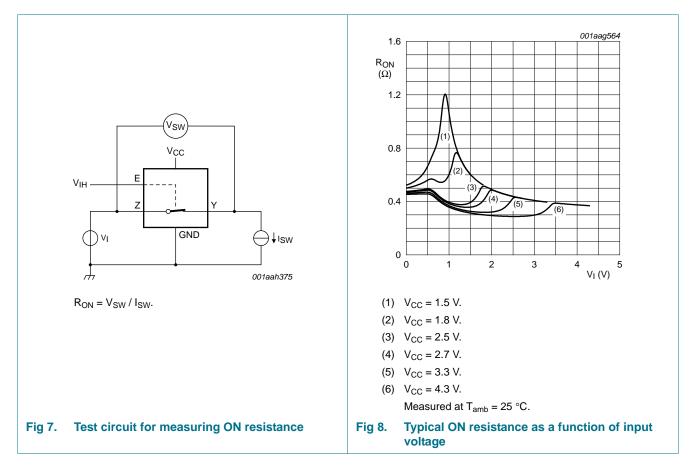
Table 8. ON resistance ...continued

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for graphs see Figure 8 to Figure 14.

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

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

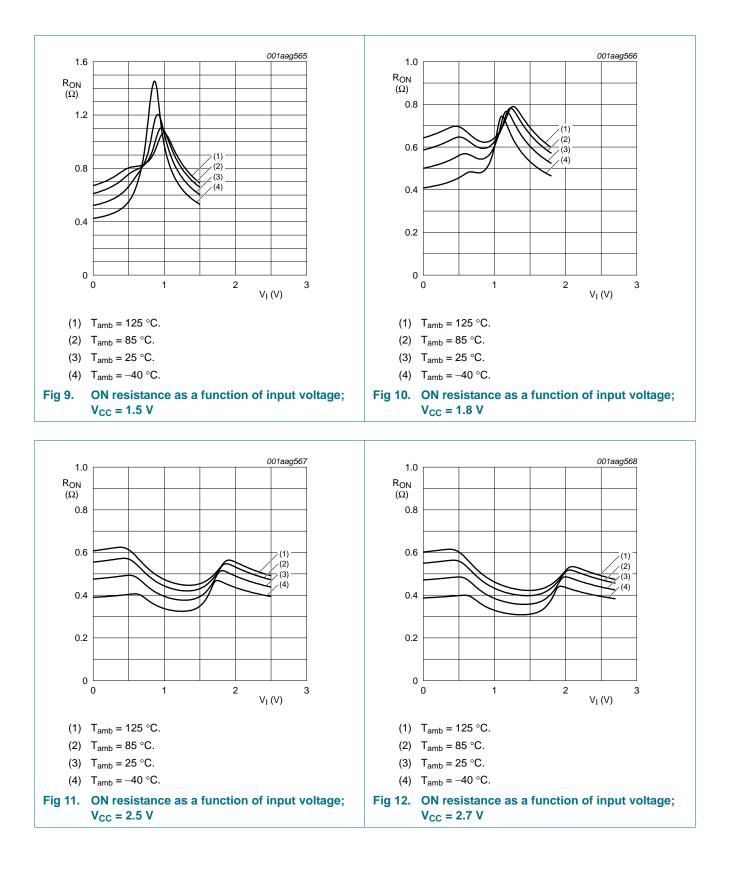
11.3 ON resistance test circuit and graphs



NX3L1G66 Product data sheet

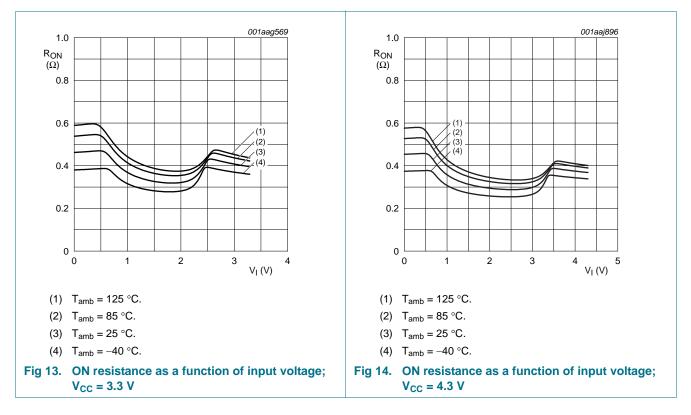
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12. Dynamic characteristics

Table 9. Dynamic characteristics

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

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 15							
		$V_{CC} = 1.4 \text{ V} \text{ to } 1.6 \text{ V}$	-	27	41	-	43	48	ns
		V_{CC} = 1.65 V to 1.95 V	-	22	33	-	34	36	ns
		V_{CC} = 2.3 V to 2.7 V	-	17	26	-	27	30	ns
		$V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	-	14	23	-	24	26	ns
		$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$	-	14	23	-	24	26	ns
t _{dis}	disable time	E to Z or Y; see Figure 15							
		$V_{CC} = 1.4 \text{ V} \text{ to } 1.6 \text{ V}$	-	9	18	-	19	21	ns
		V_{CC} = 1.65 V to 1.95 V	-	7	13	-	15	16	ns
		V_{CC} = 2.3 V to 2.7 V	-	4	8	-	9	10	ns
		$V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	-	4	8	-	8	9	ns
		V_{CC} = 3.6 V to 4.3 V	-	4	8	-	8	9	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

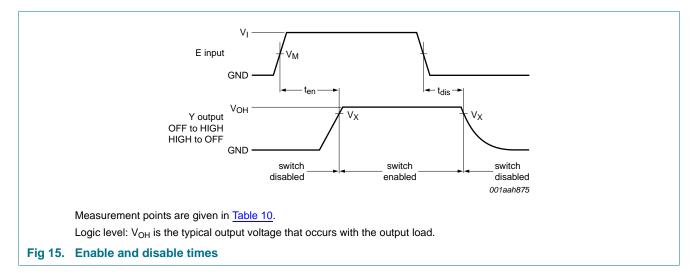


Table 10.Measurement points

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

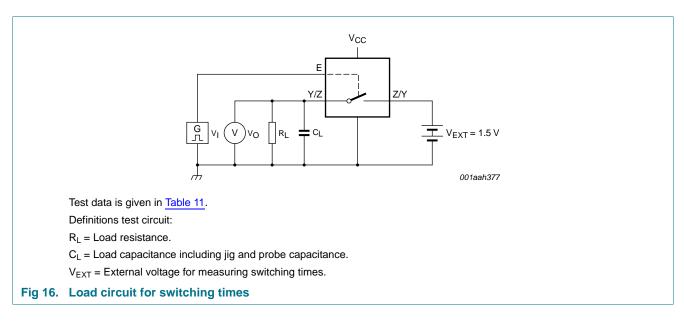


Table 11. Test data

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

12.2 Additional dynamic characteristics

Table 12. Additional dynamic characteristics

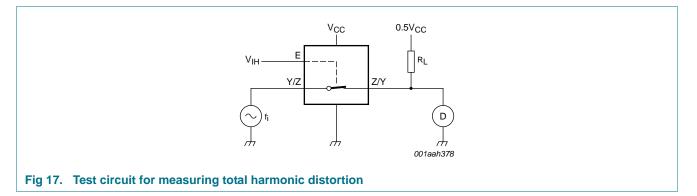
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); $V_I = GND$ or V_{CC} (unless otherwise specified); $t_r = t_f \le 2.5$ ns.

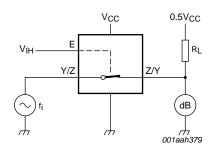
Symbol	Parameter	Conditions	T _{amb} = 25 °C			Unit	
				Min	Тур	Max	
	total harmonic distortion	f_i = 20 Hz to 20 kHz; R_L = 32 Ω ; see Figure 17	<u>[1]</u>				
		$V_{CC} = 1.4 \text{ V}; \text{ V}_{I} = 1 \text{ V} (p-p)$		-	0.15	-	%
		V _{CC} = 1.65 V; V _I = 1.2 V (p-p)		-	0.10	-	%
		V _{CC} = 2.3 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 V; V _I = 2 V (p-p)		-	0.02	-	%
f _(-3dB) -3 dB freque response	-3 dB frequency	$R_L = 50 \Omega$; see <u>Figure 18</u>	<u>[1]</u>				
	response	$V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$		-	60	-	MHz
α_{iso} isolat	isolation (OFF-state)	$f_i = 100 \text{ kHz}; R_L = 50 \Omega; \text{ see } \frac{\text{Figure 19}}{100 \text{ kHz}}$	<u>[1]</u>				
		$V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$		-	-90	-	dB
V _{ct} cr	crosstalk voltage	between digital inputs and switch; $f_i = 1 \text{ MHz}$; $C_L = 50 \text{ pF}$; $R_L = 50 \Omega$; see Figure 20					
		$V_{CC} = 1.4 \text{ V to } 3.6 \text{ V}$		-	0.2	-	V
		$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$		-	0.2	-	V
Q _{inj} cl	charge injection	$f_i = 1 \text{ MHz}; C_L = 0.1 \text{ nF}; R_L = 1 \text{ M}\Omega; V_{gen} = 0 \text{ V}; R_{gen} = 0 \Omega; \text{ see } \frac{\text{Figure 21}}{2}$					
		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}.

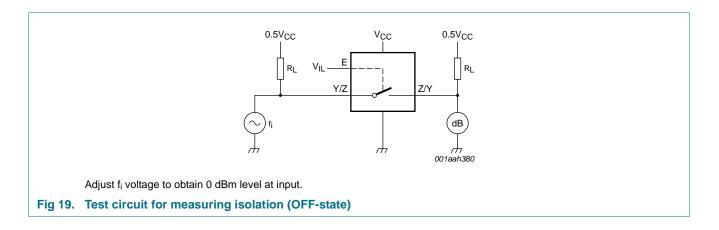
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12.3 Test circuits



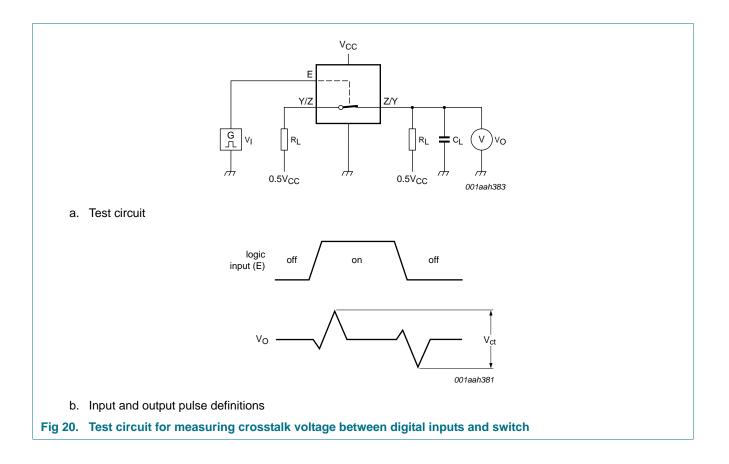


Adjust f_i voltage to obtain 0 dBm level at output. Increase f_i frequency until dB meter reads –3 dB. **Fig 18.** Test circuit for measuring the frequency response when channel is in ON-state



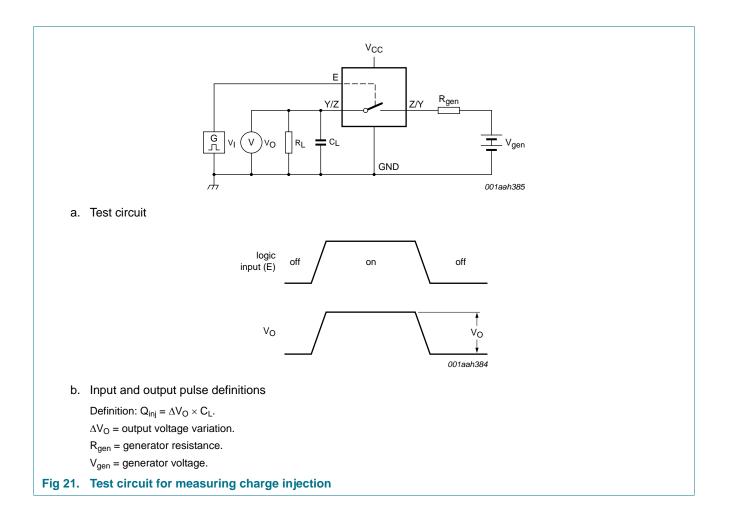
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NX3L1G66

Low-ohmic single-pole single-throw analog switch



NX3L1G66

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13. Package outline

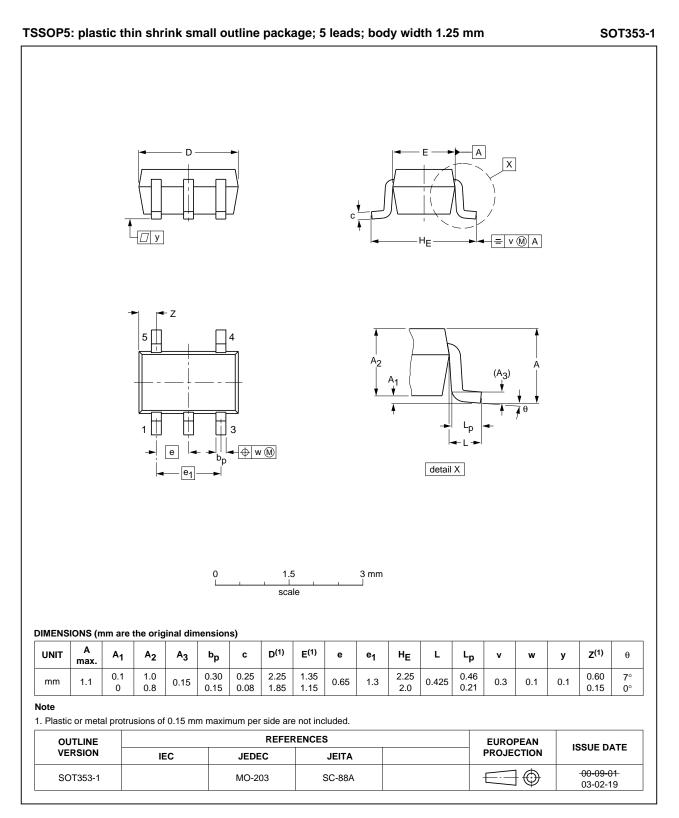


Fig 22. Package outline SOT353-1 (TSSOP5)

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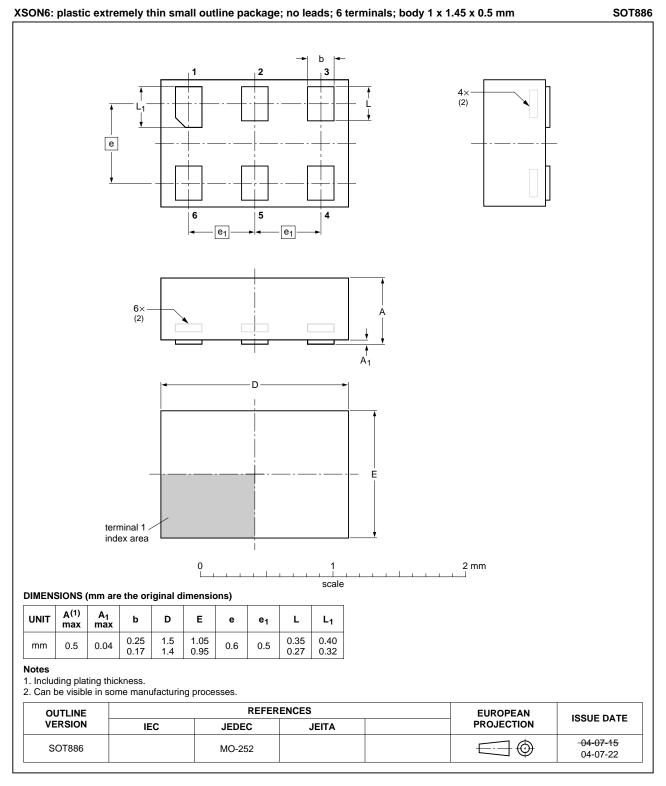


Fig 23. Package outline SOT886 (XSON6)

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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		
TTL	Transistor-Transistor Logic		

15. Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
NX3L1G66 v.8	20111109	Product data sheet	-	NX3L1G66 v.7
Modifications:	 Legal pages 	updated.		
NX3L1G66 v.7	20101222	Product data sheet	-	NX3L1G66 v.6
NX3L1G66 v.6	20090818	Product data sheet	-	NX3L1G66 v.5
NX3L1G66 v.5	20090403	Product data sheet	-	NX3L1G66 v.4
NX3L1G66 v.4	20090317	Product data sheet	-	NX3L1G66 v.3
NX3L1G66 v.3	20080724	Product data sheet	-	NX3L1G66 v.2
NX3L1G66 v.2	20080307	Product data sheet	-	NX3L1G66 v.1
NX3L1G66 v.1	20080103	Product data sheet	-	-

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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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