# NX3V1T384

# Low-ohmic single-pole single-throw analog switch

Rev. 3 — 4 November 2011

Product data sheet

### 1. General description

The NX3V1T384 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 (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  $I_{CC}$ . This makes it possible for the NX3V1T384 to switch 4.3 V signals with a 1.8 V digital controller, eliminating the need for logic level translation.

The NX3V1T384 allows signals with amplitude up to  $V_{CC}$  to be transmitted from Y to Z or from Z to Y. Its ultra-low ON resistance (0.3  $\Omega$ ) and flatness (0.1  $\Omega$ ) 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):
  - 0.8  $\Omega$  (typical) at  $V_{CC} = 1.4 \text{ V}$
  - 0.5  $\Omega$  (typical) at  $V_{CC} = 1.65 \text{ V}$
  - 0.3  $\Omega$  (typical) at  $V_{CC} = 2.3 \text{ V}$
  - 0.25  $\Omega$  (typical) at  $V_{CC} = 2.7 \text{ V}$
  - 0.25 Ω (typical) at V<sub>CC</sub> = 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 6000 V for switch ports
- CMOS low-power consumption
- Latch-up performance exceeds 100 mA per JESD 78B Class II Level A
- Enable input accepts voltages above supply voltage
- 1.8 V control logic at V<sub>CC</sub> = 3.6 V
- Very low supply current, even when input is below V<sub>CC</sub>
- High current handling capability (500 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					
NX3V1T384GW	–40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1					
NX3V1T384GM	–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					

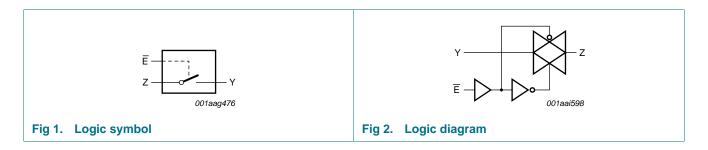
# 5. Marking

### Table 2. Marking codes[1]

Type number	Marking code
NX3V1T384GW	e3
NX3V1T384GM	e3

<sup>[1]</sup> 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
	SOT353-1	SOT886	
Υ	1	1	independent input or output
Z	2	2	independent output or input
GND	3	3	ground (0 V)
Ē	4	4	enable input (active LOW)
n.c.	-	5	not connected
$V_{CC}$	5	6	supply voltage

# 8. Functional description

Table 4. Function table[1]

Input E	Switch
L	ON-state
Н	OFF-state

<sup>[1]</sup> 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	[ <u>1]</u> –0.5	+4.6	V
$V_{SW}$	switch voltage		<u>[2]</u> –0.5	$V_{CC} + 0.5$	V
I <sub>IK</sub>	input clamping current	$V_1 < -0.5 \text{ V}$	-50	-	mΑ
I <sub>SK</sub>	switch clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	-	±50	mΑ
I <sub>SW</sub>	switch current	$V_{SW} > -0.5 \text{ V or } V_{SW} < V_{CC} + 0.5 \text{ V};$ source or sink current	-	±500	mA
		$V_{SW}$ > -0.5 V or $V_{SW}$ < $V_{CC}$ + 0.5 V; pulsed at 1 ms duration, < 10 % duty cycle; peak current	-	±750	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[3] _	250	mW

<sup>[1]</sup> 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	enable input E	0	4.3	V
$V_{SW}$	switch voltage		<u>[1]</u> 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

<sup>[1]</sup> 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.

<sup>[2]</sup> 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.

<sup>[3]</sup> For TSSOP5 package: above 87.5 °C the value of P<sub>tot</sub> derates linearly with 4.0 mW/K. For XSON6 package: above 118 °C the value of P<sub>tot</sub> derates linearly with 7.8 mW/K.

<sup>[2]</sup> Applies to control signal levels.

### Low-ohmic single-pole single-throw analog switch

### 11. Static characteristics

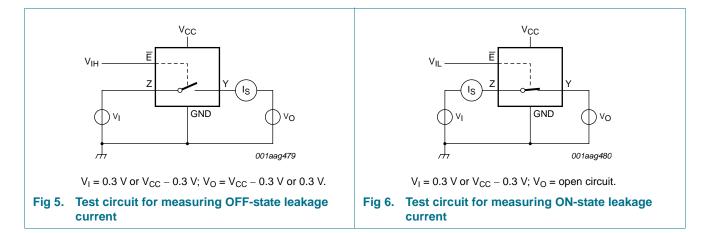
Table 7. Static characteristics

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

Symbol	Parameter	Conditions	Ta	<sub>mb</sub> = 25	°C	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$			Unit
			Min	Тур	Max	Min	Max (85 °C)	Max (125 °C)	
$V_{IH}$	HIGH-level	V <sub>CC</sub> = 1.4 V to 1.6 V	0.9	-	-	0.9	-	-	V
	input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	0.9	-	-	0.9	-	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.1	-	-	1.1	-	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	1.3	-	-	1.3	-	-	V
		V <sub>CC</sub> = 3.6 V to 4.3 V	1.4	-	-	1.4	-	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 1.4 V to 1.6 V	-	-	0.3	-	0.3	0.3	V
	input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.4	-	0.4	0.3	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.4	-	0.4	0.4	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.5	-	0.5	0.5	V
		V <sub>CC</sub> = 3.6 V to 4.3 V	-	-	0.6	-	0.6	0.6	V
l <sub>l</sub>	input leakage current	enable input $\overline{E}$ ; $V_I = GND \text{ to } 4.3 \text{ V}$ ; $V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$	-	-	-	-	±0.5	±1	μΑ
I <sub>S(OFF)</sub>	S(OFF) OFF-state leakage current	Y port; see Figure 5							
		V <sub>CC</sub> = 1.4 V to 3.6 V	-	-	±5	-	±50	±500	nΑ
		$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$	-	-	±10	-	±50	±500	nΑ
I <sub>S(ON)</sub>	ON-state	Z port; see Figure 6							
	leakage	$V_{CC} = 1.4 \text{ V to } 3.6 \text{ V}$	-	-	±5	-	±50	±500	nΑ
	current	$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$	-	-	±10	-	±50	±500	nΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $V_{SW} = GND$ or $V_{CC}$							
		V <sub>CC</sub> = 3.6 V	-	-	100	-	690	6000	nΑ
		V <sub>CC</sub> = 4.3 V	-	-	150	-	800	7000	nΑ
Δl <sub>CC</sub>	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
		$V_{I} = 2.6 \text{ V}; V_{CC} = 3.6 \text{ V}$	-	0.35	0.7	-	1	1	μΑ
		V <sub>I</sub> = 1.8 V; V <sub>CC</sub> = 4.3 V	-	7.0	10.0	-	15	15	μΑ
		$V_{I} = 1.8 \text{ V}; V_{CC} = 3.6 \text{ V}$	-	2.5	4.0	-	5	5	μΑ
		$V_{I} = 1.8 \text{ V}; V_{CC} = 2.5 \text{ V}$	-	50	200	-	300	500	nΑ
C <sub>I</sub>	input capacitance		-	1.0	-	-	-	-	pF
C <sub>S(OFF)</sub>	OFF-state capacitance		-	70	-	-	-	-	pF
C <sub>S(ON)</sub>	ON-state capacitance		-	205	-	-	-	-	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 8 to Figure 14.

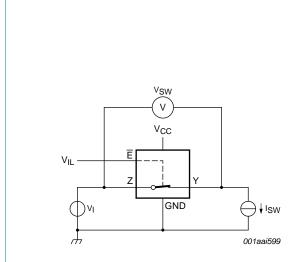
Symbol	Parameter	meter Conditions		$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +85  ^{\circ}\text{C}$			T <sub>amb</sub> = -40 °	Unit	
				Min	Typ[1]	Max	Min	Max	
R <sub>ON(peak)</sub>	ON resistance (peak)	$V_I = GND \text{ to } V_{CC};$ $I_{SW} = 100 \text{ mA}; \text{ see } \frac{\text{Figure 7}}{\text{MB}}$	·			•			
		$V_{CC} = 1.4 \text{ V}$		-	0.8	1.9	-	2.1	Ω
		V <sub>CC</sub> = 1.65 V		-	0.5	8.0	-	0.9	Ω
		$V_{CC} = 2.3 \text{ V}$		-	0.3	0.5	-	0.6	Ω
		$V_{CC} = 2.7 \text{ V}$		-	0.25	0.45	-	0.5	Ω
		$V_{CC} = 4.3 \text{ V}$		-	0.25	0.45	-	0.5	Ω
R <sub>ON(flat)</sub>	ON resistance (flatness)	$V_I = GND \text{ to } V_{CC};$ $I_{SW} = 100 \text{ mA}$	[2]						
		$V_{CC} = 1.4 \text{ V}$		-	0.5	1.7	-	1.8	Ω
		V <sub>CC</sub> = 1.65 V		-	0.25	0.6	-	0.7	Ω
		$V_{CC} = 2.3 \text{ V}$		-	0.1	0.2	-	0.2	Ω
		$V_{CC} = 2.7 \text{ V}$		-	0.1	0.2	-	0.2	Ω
		$V_{CC} = 4.3 \text{ V}$		-	0.1	0.25	-	0.25	Ω

<sup>[1]</sup> Typical values are measured at  $T_{amb}$  = 25 °C.

<sup>[2]</sup> Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V<sub>CC</sub> and temperature.

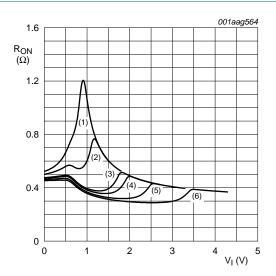
### Low-ohmic single-pole single-throw analog switch

### 11.3 ON resistance test circuit and graphs



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

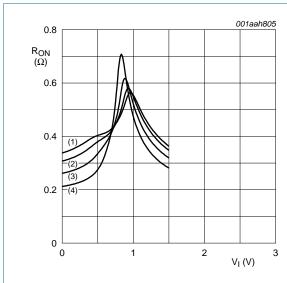
Fig 7. Test circuit for measuring ON resistance



- (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<sub>amb</sub> = 25 °C.

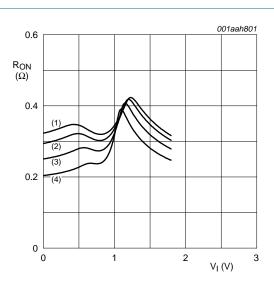
Fig 8. Typical ON resistance as a function of input voltage

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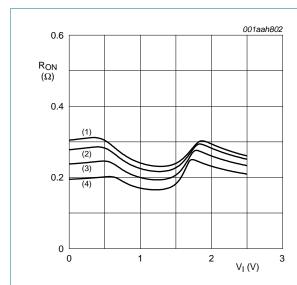
- (1)  $T_{amb} = 125 \, ^{\circ}C$ .
- (2)  $T_{amb} = 85 \, ^{\circ}C$ .
- (3)  $T_{amb} = 25 \, ^{\circ}C$ .
- (4)  $T_{amb} = -40 \, ^{\circ}C$ .

Fig 9. ON resistance as a function of input voltage;  $V_{CC} = 1.5 \text{ V}$ 



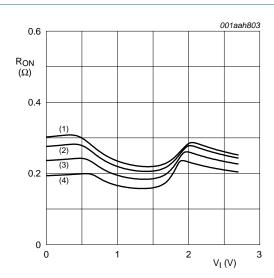
- (1)  $T_{amb} = 125 \, ^{\circ}C$ .
- (2)  $T_{amb} = 85 \, ^{\circ}C$ .
- (3)  $T_{amb} = 25 \, ^{\circ}C$ .
- (4)  $T_{amb} = -40 \, ^{\circ}C$ .

Fig 10. 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)  $T_{amb} = -40 \, ^{\circ}C$ .

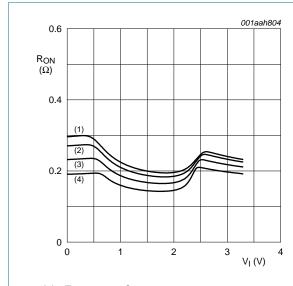
Fig 11. ON resistance as a function of input voltage;  $V_{CC} = 2.5 \text{ V}$ 



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

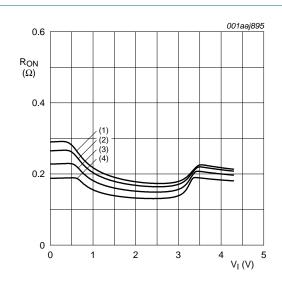
Fig 12. ON resistance as a function of input voltage;  $V_{CC} = 2.7 \text{ V}$ 

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

### 12. Dynamic characteristics

Table 9. Dynamic characteristics

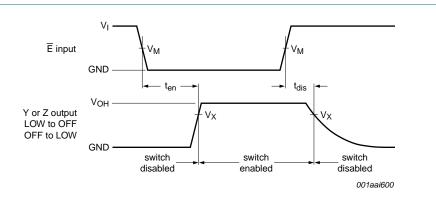
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for load circuit see Figure 16.

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

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

### Low-ohmic single-pole single-throw analog switch

### 12.1 Waveform and test circuits



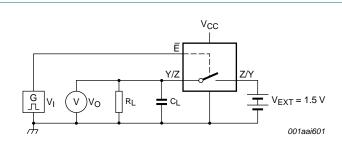
Measurement points are given in Table 10.

Logic level: V<sub>OH</sub> is the typical output voltage that occurs with the output load.

Fig 15. Enable and disable times

Table 10. Measurement points

Supply voltage	Input	Output
V <sub>CC</sub>	V <sub>M</sub>	V <sub>X</sub>
1.4 V to 4.3 V	0.5V <sub>CC</sub>	0.9V <sub>OH</sub>



Test data is given in Table 11.

Definitions test circuit:

R<sub>L</sub> = Load resistance.

 $C_L$  = Load capacitance including jig and probe capacitance.

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

Fig 16. Load circuit for switching times

Table 11. Test data

Supply voltage	Input		Load		
V <sub>CC</sub>	VI	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub>	
1.4 V to 4.3 V	$V_{CC}$	≤ 2.5 ns	35 pF	50 Ω	

### Low-ohmic single-pole single-throw analog switch

### 12.2 Additional dynamic characteristics

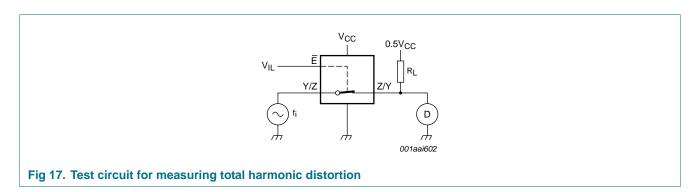
Table 12. Additional dynamic characteristics

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.

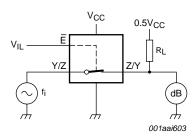
Symbol Parameter Co		Conditions	Conditions		<sub>mb</sub> = 25	°C	Unit
				Min	Тур	Max	
THD	total harmonic	$f_i$ = 20 Hz to 20 kHz; $R_L$ = 32 $\Omega$ ; see Figure 17	<u>[1]</u>				
	distortion	$V_{CC} = 1.4 \text{ V}; V_I = 1 \text{ V (p-p)}$		-	0.05	-	%
		$V_{CC} = 1.65 \text{ V}; V_I = 1.2 \text{ V (p-p)}$		-	0.03	-	%
		$V_{CC} = 2.3 \text{ V}; V_{I} = 1.5 \text{ V (p-p)}$		-	0.01	-	%
		$V_{CC} = 2.7 \text{ V}; V_{I} = 2 \text{ V (p-p)}$		[1] - 0.05 0.03 0.01 0.01 0.01 - [1] - 25 -	%		
		$V_{CC} = 4.3 \text{ V}; V_{I} = 2 \text{ V (p-p)}$		-	0.01	-	%
f <sub>(-3dB)</sub>	-3 dB frequency	$R_L = 50 \Omega$ ; see Figure 18	<u>[1]</u>				
	response	$V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$		-	25	-	MHz
$\alpha_{\text{iso}}$	isolation (OFF-state)	$f_i$ = 100 kHz; $R_L$ = 50 $\Omega$ ; see Figure 19	<u>[1]</u>				
		$V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$		-	-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 <sub>CC</sub> = 1.4 V to 3.6 V		-	0.3	-	V
		$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$		-	0.5	-	V
$Q_{inj}$	charge injection	$f_i$ = 1 MHz; $C_L$ = 0.1 nF; $R_L$ = 1 M $\Omega$ ; $V_{gen}$ = 0 V; $R_{gen}$ = 0 $\Omega$ ; see <u>Figure 21</u>					
		V <sub>CC</sub> = 1.5 V		-	6.5	-	рС
		V <sub>CC</sub> = 1.8 V		-	6.5	-	рС
		V <sub>CC</sub> = 2.5 V		-	6.5	-	рC
		V <sub>CC</sub> = 3.3 V		-	6.5	-	рC
		V <sub>CC</sub> = 4.3 V		-	12	-	рС

<sup>[1]</sup>  $f_i$  is biased at  $0.5V_{CC}$ .

### 12.3 Test circuits

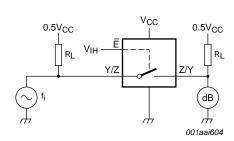


### Low-ohmic single-pole single-throw analog switch



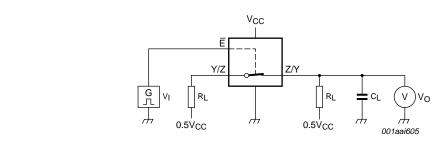
Adjust  $f_i$  voltage to obtain 0 dBm level at output. Increase  $f_i$  frequency until dB meter reads -3 dB.

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

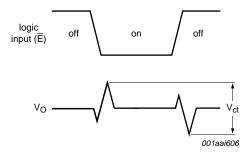


Adjust fi voltage to obtain 0 dBm level at input.

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



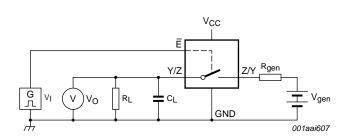
a. Test circuit



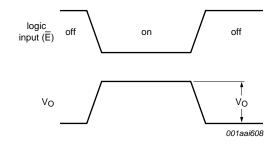
b. Input and output pulse definitions

Fig 20. Test circuit for measuring crosstalk voltage between digital inputs and switch

### Low-ohmic single-pole single-throw analog switch



#### a. Test circuit



#### b. Input and output pulse definitions

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

 $\Delta V_{O}$  = output voltage variation.

R<sub>gen</sub> = generator resistance.

V<sub>gen</sub> = generator voltage.

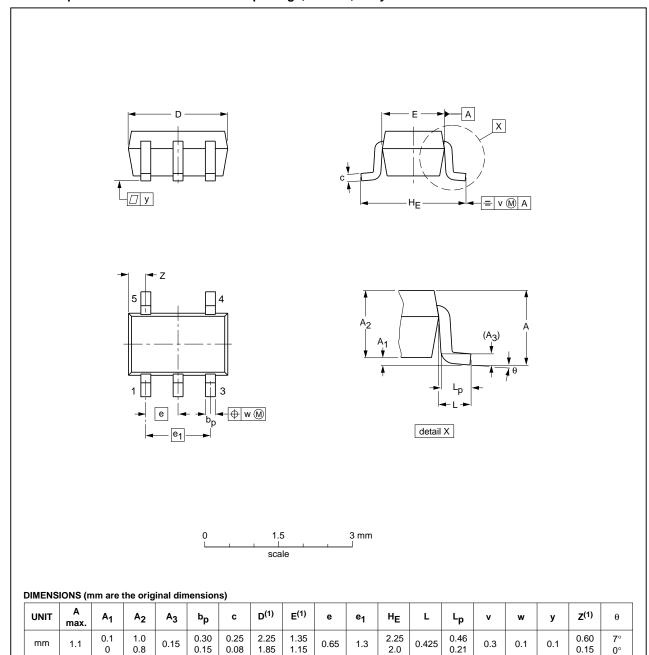
Fig 21. Test circuit for measuring charge injection

### Low-ohmic single-pole single-throw analog switch

## 13. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm

SOT353-1



#### Note

<sup>1.</sup> Plastic or metal protrusions of 0.15 mm maximum per side are not included.

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

Fig 22. Package outline SOT353-1 (TSSOP5)

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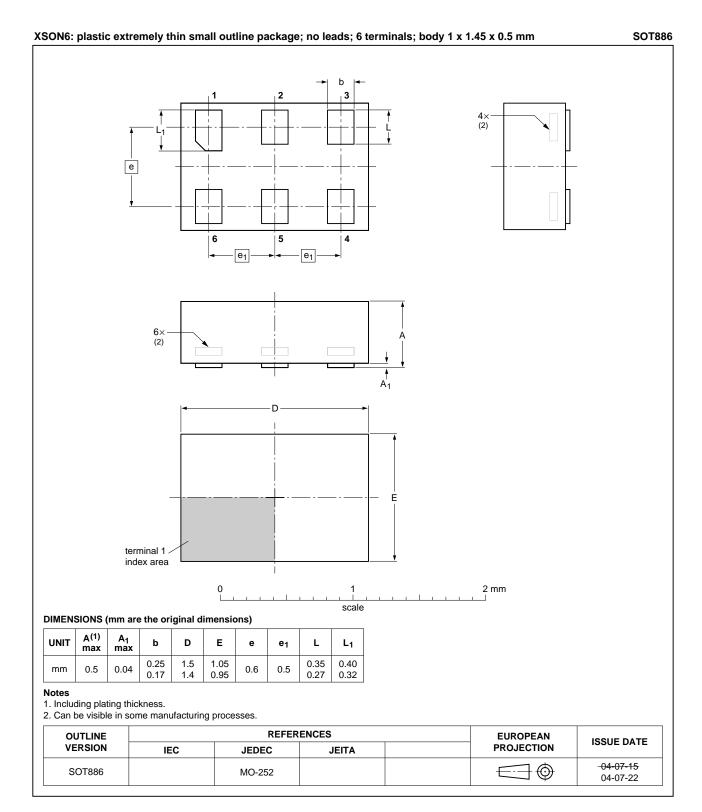


Fig 23. Package outline SOT886 (XSON6)

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### Low-ohmic single-pole single-throw analog switch

### 14. Abbreviations

#### Table 13. Abbreviations

Acronym	Description	
CDM	Charged-Device Model	
CMOS	Complementary Metal-Oxide Semiconductor	
ESD	ElectroStatic Discharge	
НВМ	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
NX3V1T384 v.3	20111104	Product data sheet	-	NX3V1T384 v.2
Modifications:	<ul> <li>Legal pages</li> </ul>	updated.		
NX3V1T384 v.2	20101221	Product data sheet	-	NX3V1T384 v.1
NX3V1T384 v.1	20090921	Product data sheet	-	-

### Low-ohmic single-pole single-throw analog switch

### 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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