Low-ohmic single-pole single-throw analog switch

Rev. 7 — 2 November 2011

**Product data sheet** 

## 1. General description

The NX3V1T66 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 pin 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. A low input voltage threshold allows pin E to be driven by lower level logic signals without a significant increase in supply current  $I_{CC}$ . This makes it possible for the NX3V1T66 to switch 4.3 V signals with a 1.8 V digital controller, eliminating the need for logic level translation.

The NX3V1T66 allows signals with amplitude up to V<sub>CC</sub> 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<sub>CC</sub> = 1.4 V
  - 0.5  $\Omega$  (typical) at V<sub>CC</sub> = 1.65 V
  - 0.3  $\Omega$  (typical) at V<sub>CC</sub> = 2.3 V
  - 0.25  $\Omega$  (typical) at V<sub>CC</sub> = 2.7 V
  - 0.25  $\Omega$  (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
- 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



## 3. Applications

- Cell phone
- PDA
- Portable media player

# 4. Ordering information

#### Table 1.Ordering information

| Type number | Package           |        |   |          |  |  |  |  |
|-------------|-------------------|--------|---|----------|--|--|--|--|
|             | Temperature range | Name   | Description   | Version  |  |  |  |  |
| NX3V1T66GW  | –40 °C to +125 °C | TSSOP5 | plastic thin shrink small outline package; 5 leads;<br>body width 1.25 mm                                 | SOT353-1 |  |  |  |  |
| NX3V1T66GM  | –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   |  |  |  |  |

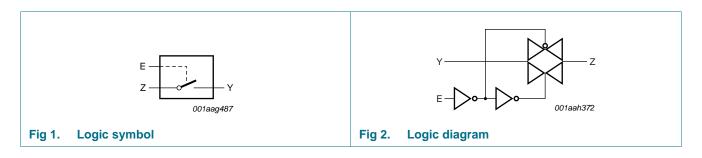
## 5. Marking

#### Table 2. Marking codes<sup>[1]</sup>

| Type number | Marking code |
|-------------|--------------|
| NX3V1T66GW  | dO           |
| NX3V1T66GM  | dO           |

[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

| Symbol          | Pin      |        | Description                 |
|-----------------|----------|--------|-----------------------------|
|                 | SOT353-1 | SOT886 |                             |
| Y               | 1        | 1      | independent input or output |
| Z               | 2        | 2      | independent output or input |
| GND             | 3        | 3      | ground (0 V)                |
| E               | 4        | 4      | enable input (active HIGH)  |
| n.c.            | -        | 5      | not connected               |
| V <sub>CC</sub> | 5        | 6      | supply voltage              |

## 8. Functional description

#### Table 4.Function table

| Input E | Switch    |
|---------|-----------|
| L       | OFF-state |
| Н       | ON-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             | Мах                   | Unit |
|------------------|-------------------------|---|-----------------|-----------------------|------|
| V <sub>CC</sub>  | supply voltage          |   | -0.5            | +4.6                  | V    |
| VI               | input voltage           | enable input E  | <u>[1]</u> –0.5 | +4.6                  | V    |
| V <sub>SW</sub>  | switch voltage          |   | <u>[2]</u> –0.5 | V <sub>CC</sub> + 0.5 | V    |
| I <sub>IK</sub>  | input clamping current  | $V_{\rm I} < -0.5 ~\rm V$   | -50             | -                     | mA   |
| I <sub>SK</sub>  | switch clamping current | $V_{l}$ < -0.5 V or $V_{l}$ > $V_{CC}$ + 0.5 V  | -               | ±50                   | mA   |
| I <sub>SW</sub>  | switch current          | $V_{SW}$ > -0.5 V or $V_{SW}$ < $V_{CC}$ + 0.5 V;<br>source or sink current   | -               | ±500                  | mA   |
|                  |                         | V <sub>SW</sub> > –0.5 V or V <sub>SW</sub> < V <sub>CC</sub> + 0.5 V;<br>pulsed at 1 ms duration, < 10 % duty cycle;<br>peak current | -               | ±750                  | mA   |
| T <sub>stg</sub> | storage temperature     |   | -65             | +150                  | °C   |
| P <sub>tot</sub> | total power dissipation | $T_{amb} = -40 \ ^{\circ}C$ to +125 $^{\circ}C$   | <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<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.

## 10. Recommended operating conditions

#### Table 6. Recommended operating conditions

| Symbol                | Parameter                           | Conditions                         | Min   | Max             | Unit |
|-----------------------|-------------------------------------|------------------------------------|-------|-----------------|------|
| V <sub>CC</sub>       | supply voltage                      |                                    | 1.4   | 4.3             | V    |
| VI                    | input voltage                       | enable input E                     | 0     | 4.3             | V    |
| V <sub>SW</sub>       | switch voltage                      |                                    | [1] 0 | V <sub>CC</sub> | V    |
| T <sub>amb</sub>      | ambient temperature                 |                                    | -40   | +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 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

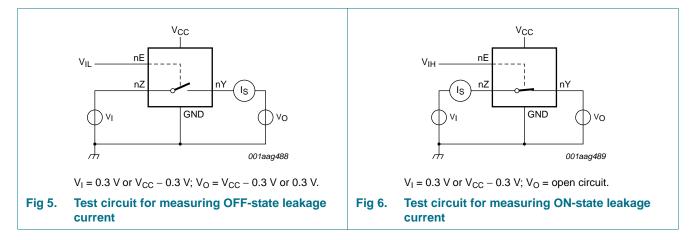
### Table 7. Static characteristics

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

| Symbol              | Parameter                | Conditions   | Ta  | T <sub>amb</sub> = 25 °C |      |                | T <sub>amb</sub> = -40 °C to +125 °C |      |    |
|---------------------|--------------------------|--|-----|--------------------------|------|----------------|--------------------------------------|------|----|
|                     |                          | Min  | Тур | Мах                      | Min  | Max<br>(85 °C) | Max<br>(125 °C)                      | -    |    |
| VIH                 | HIGH-level               | V <sub>CC</sub> = 1.4 V to 1.6 V   | 0.9 | -                        | -    | 0.9            | -                                    | -    | V  |
|                     | input voltage            | $V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$                             | 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 <sub>IL</sub>     | LOW-level                | $V_{CC} = 1.4 \text{ V} \text{ to } 1.6 \text{ V}$                       | -   | -                        | 0.3  | -              | 0.3                                  | 0.3  | V  |
|                     | input voltage            | $V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$                     | -   | -                        | 0.4  | -              | 0.4                                  | 0.3  | V  |
|                     |                          | $V_{CC}$ = 2.3 V to 2.7 V  | -   | -                        | 0.4  | -              | 0.4                                  | 0.4  | V  |
|                     |                          | $V_{CC} = 2.7 V \text{ to } 3.6 V$                                       | -   | -                        | 0.5  | -              | 0.5                                  | 0.5  | V  |
|                     |                          | $V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$                               | -   | -                        | 0.6  | -              | 0.6                                  | 0.6  | V  |
| I                   | input leakage<br>current | enable input E; V <sub>I</sub> = GND to 4.3 V; $V_{CC}$ = 1.4 V to 4.3 V |     |                          |      |                |                                      |      |    |
| I <sub>S(OFF)</sub> | OFF-state                | Y port; see <u>Figure 5</u>  |     |                          |      |                |                                      |      |    |
|                     | leakage<br>current       | $V_{CC} = 1.4 \text{ V} \text{ to } 3.6 \text{ V}$                       | -   | -                        | ±5   | -              | ±50                                  | ±500 | nA |
|                     | current                  | $V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$                               | -   | -                        | ±10  | -              | ±50                                  | ±500 | nA |
| I <sub>S(ON)</sub>  | ON-state                 | Z port; see Figure 6   |     |                          |      |                |                                      |      |    |
|                     | leakage<br>current       | $V_{CC} = 1.4 \text{ V} \text{ to } 3.6 \text{ V}$                       | -   | -                        | ±5   | -              | ±50                                  | ±500 | nA |
|                     | current                  | $V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$                               | -   | -                        | ±10  | -              | ±50                                  | ±500 | nA |
| I <sub>CC</sub>     | supply current           |  |     |                          |      |                |                                      |      |    |
|                     |                          | $V_{CC} = 3.6 V$   | -   | -                        | 100  | -              | 690                                  | 6000 | nA |
|                     |                          | $V_{CC} = 4.3 V$   | -   | -                        | 150  | -              | 800                                  | 7000 | nA |
| $\Delta I_{CC}$     | additional               | $V_{SW}$ = GND or $V_{CC}$   |     |                          |      |                |                                      |      |    |
|                     | supply current           | $V_{I} = 2.6 V; V_{CC} = 4.3 V$  | -   | 2.0                      | 4.0  | -              | 7                                    | 7    | μA |
|                     |                          | $V_{I} = 2.6 V; V_{CC} = 3.6 V$  | -   | 0.35                     | 0.7  | -              | 1                                    | 1    | μA |
|                     |                          | $V_{I} = 1.8 \text{ V}; V_{CC} = 4.3 \text{ V}$                          | -   | 7.0                      | 10.0 | -              | 15                                   | 15   | μA |
|                     |                          | V <sub>I</sub> = 1.8 V; V <sub>CC</sub> = 3.6 V                          | -   | 2.5                      | 4.0  | -              | 5                                    | 5    | μA |
|                     |                          | $V_{I} = 1.8 \text{ V}; V_{CC} = 2.5 \text{ V}$                          | -   | 50                       | 200  | -              | 300                                  | 500  | nA |
| Cl                  | input<br>capacitance     |  | -   | 1.0                      | -    | -              | -                                    | -    | pF |
| $C_{S(OFF)}$        | OFF-state capacitance    |  | -   | 70                       | -    | -              | -                                    | -    | pF |
| C <sub>S(ON)</sub>  | ON-state capacitance     |  | -   | 205                      | -    | -              | -                                    | -    | pF |

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### 11.1 Test circuits



### 11.2 ON resistance

#### Table 8. Resistance R<sub>ON</sub>

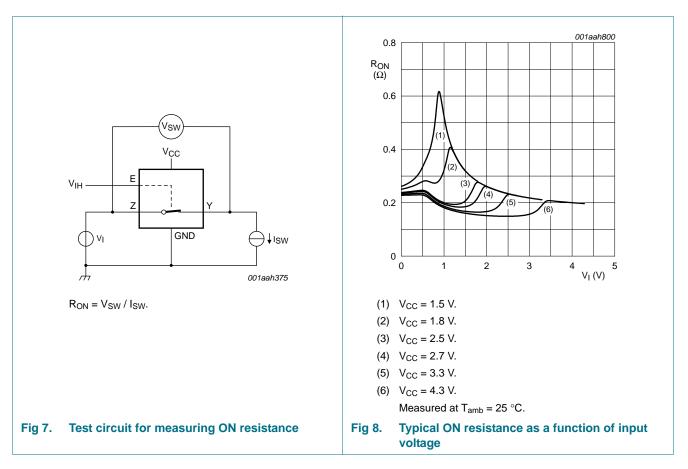
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for graphs see Figure 8 to Figure 14.

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

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

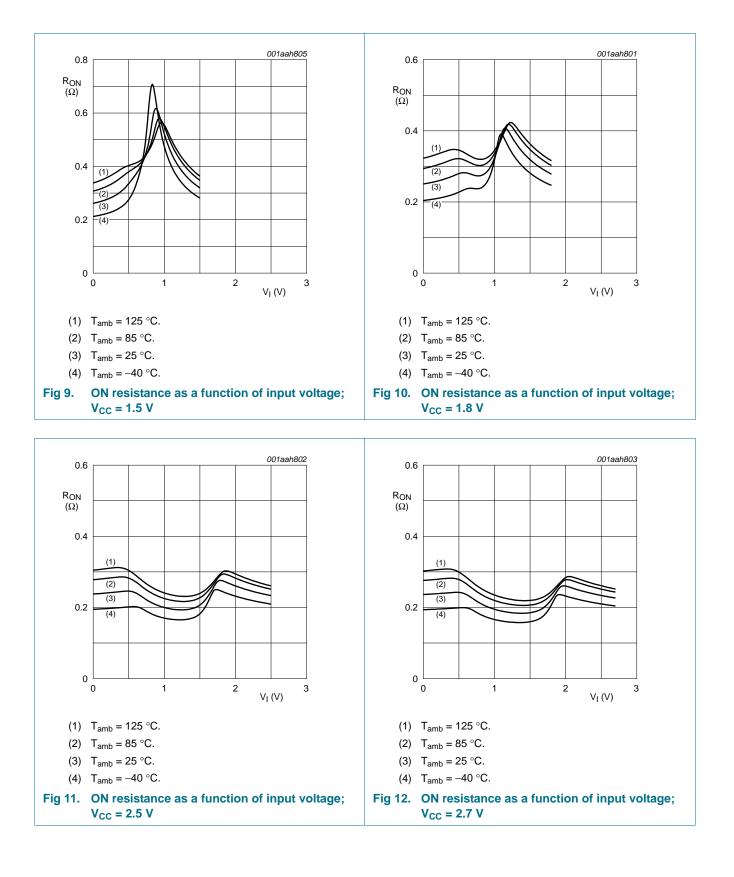
[2] Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V<sub>CC</sub> and temperature.

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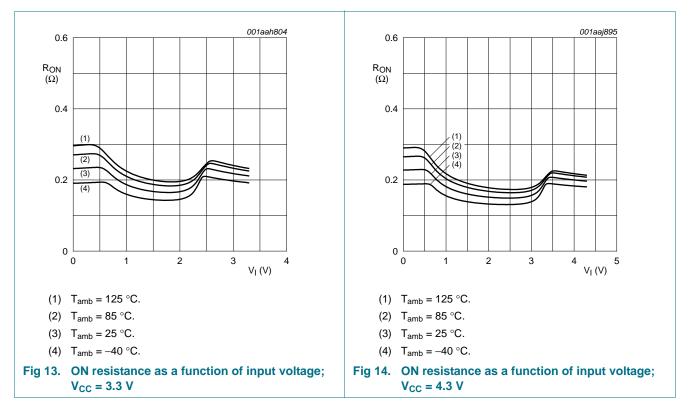
## 11.3 ON resistance test circuit and graphs

# NX3V1T66



# NX3V1T66

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## **12. Dynamic characteristics**

#### Table 9. Dynamic characteristics

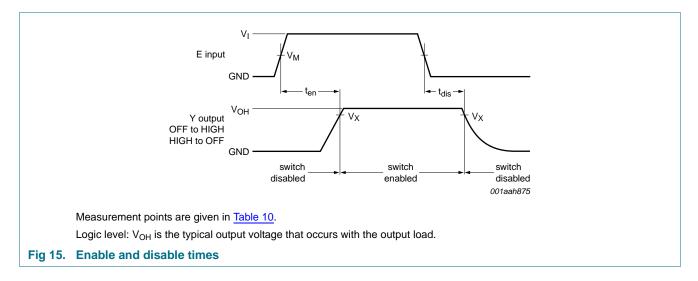
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit Figure 16.

| Symbol           | Parameter    | Conditions                          | T <sub>arr</sub> | T <sub>amb</sub> = 25 °C |     |     | T <sub>amb</sub> = -40 °C to +125<br>°C |                 |    |  |
|------------------|--------------|-------------------------------------|------------------|--------------------------|-----|-----|---|-----------------|----|--|
|                  |              |                                     | Min              | Typ[<br><u>1]</u>        | Max | Min | Max<br>(85 °C)                          | Max<br>(125 °C) | -  |  |
| t <sub>en</sub>  | enable time  | E to Y; see Figure 15               |                  |                          |     |     |   |                 |    |  |
|                  |              | $V_{CC}$ = 1.4 V to 1.6 V           | -                | 35                       | 49  | -   | 53                                      | 57              | ns |  |
|                  |              | $V_{CC}$ = 1.65 V to 1.95 V         | -                | 28                       | 40  | -   | 43                                      | 48              | ns |  |
|                  |              | $V_{CC}$ = 2.3 V to 2.7 V           | -                | 20                       | 30  | -   | 32                                      | 35              | ns |  |
|                  |              | $V_{CC}$ = 2.7 V to 3.6 V           | -                | 18                       | 28  | -   | 30                                      | 32              | ns |  |
|                  |              | $V_{CC}$ = 3.6 V to 4.3 V           | -                | 18                       | 28  | -   | 30                                      | 32              | ns |  |
| t <sub>dis</sub> | disable time | E to Y; see Figure 15               |                  |                          |     |     |   |                 |    |  |
|                  |              | $V_{CC}$ = 1.4 V to 1.6 V           | -                | 32                       | 70  | -   | 80                                      | 90              | ns |  |
|                  |              | $V_{CC} = 1.65 \text{ V}$ to 1.95 V | -                | 23                       | 55  | -   | 60                                      | 65              | ns |  |
|                  |              | $V_{CC}$ = 2.3 V to 2.7 V           | -                | 14                       | 25  | -   | 30                                      | 35              | ns |  |
|                  |              | $V_{CC}$ = 2.7 V to 3.6 V           | -                | 11                       | 20  | -   | 25                                      | 30              | ns |  |
|                  |              | $V_{CC} = 3.6 V \text{ to } 4.3 V$  | -                | 11                       | 20  | -   | 25                                      | 30              | 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.

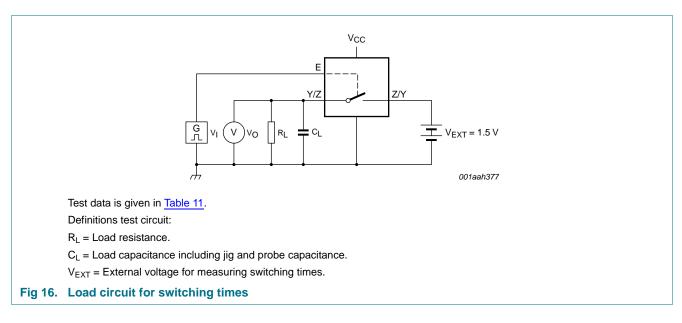
Low-ohmic single-pole single-throw analog switch

## 12.1 Waveform and test circuits



#### 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> |



#### Table 11. Test data

| Supply voltage  | Input           |                                 | Load  |      |
|-----------------|-----------------|---------------------------------|-------|------|
| V <sub>cc</sub> | VI              | t <sub>r</sub> , t <sub>f</sub> | CL    | RL   |
| 1.4 V to 4.3 V  | V <sub>CC</sub> | ≤ 2.5 ns                        | 35 pF | 50 Ω |

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### 12.2 Additional dynamic characteristics

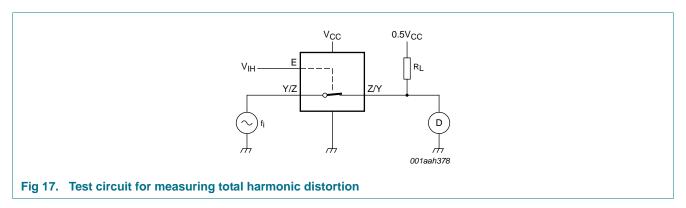
#### Table 12. Additional dynamic characteristics

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;  $T_{amb} = 25$  °C.

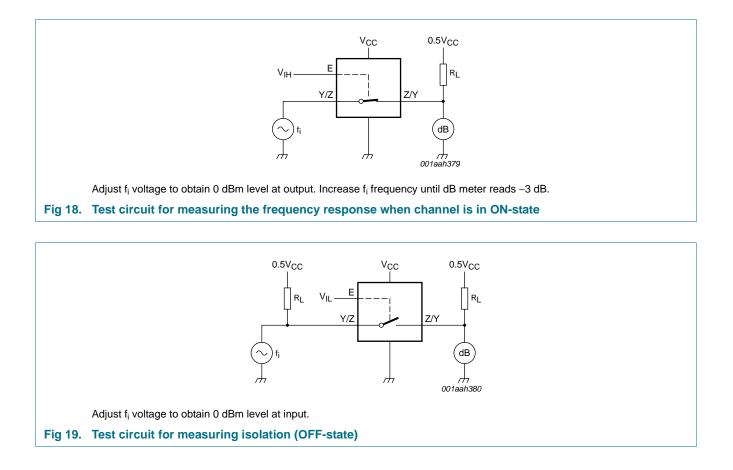
| Symbol              | Parameter             | Conditions  | Min        | Тур  | Мах | Unit |
|---------------------|-----------------------|---|------------|------|-----|------|
| THD                 | total harmonic        | $f_i = 20 \text{ Hz to } 20 \text{ kHz}; \text{ R}_L = 32 \Omega; \text{ see } \frac{\text{Figure } 17}{1000 \text{ sec } 17}$  | [1]        |      |     |      |
|                     | distortion            | V <sub>CC</sub> = 1.4 V; V <sub>I</sub> = 1 V (p-p)   | -          | 0.05 | -   | %    |
|                     |                       | V <sub>CC</sub> = 1.65 V; V <sub>I</sub> = 1.2 V (p-p)  | -          | 0.03 | -   | %    |
|                     |                       | V <sub>CC</sub> = 2.3 V; V <sub>I</sub> = 1.5 V (p-p)   | -          | 0.01 | -   | %    |
|                     |                       | $V_{CC} = 2.7 \text{ V}; \text{ V}_{I} = 2 \text{ V} (p-p)$   | -          | 0.01 | -   | %    |
|                     |                       | $V_{CC} = 4.3 \text{ V}; \text{ V}_{I} = 2 \text{ V} (p-p)$   | -          | 0.01 | -   | %    |
| f <sub>(-3dB)</sub> | -3 dB frequency       | $R_L = 50 \Omega$ ; see <u>Figure 18</u>  | <u>[1]</u> |      |     |      |
|                     | response              | $V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$  | -          | 25   | -   | MHz  |
| $\alpha_{iso}$      | 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 <sub>ct</sub>     | crosstalk voltage     | between digital inputs and switch;<br>$f_i = 1 \text{ MHz}$ ; $C_L = 50 \text{ pF}$ ; $R_L = 50 \Omega$ ; see Figure 20   |            |      |     |      |
|                     |                       | $V_{CC} = 1.4 \text{ V to } 3.6 \text{ V}$  | -          | 0.3  | -   | V    |
|                     |                       | $V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$  | -          | 0.5  | -   | V    |
| Q <sub>inj</sub>    | charge injection      | $      f_i = 1 \text{ MHz};  \text{C}_L = 0.1 \text{ nF};  \text{R}_L = 1  \text{M}\Omega;  \text{V}_{\text{gen}} = 0  \text{V}; \\ \text{R}_{\text{gen}} = 0  \Omega; \text{ see } \underline{\text{Figure } 21} $ |            |      |     |      |
|                     |                       | $V_{CC} = 1.5 V$  | -          | 6.5  | -   | рС   |
|                     |                       | V <sub>CC</sub> = 1.8 V   | -          | 6.5  | -   | рС   |
|                     |                       | $V_{CC} = 2.5 V$  | -          | 6.5  | -   | рС   |
|                     |                       | $V_{CC} = 3.3 V$  | -          | 6.5  | -   | рС   |
|                     |                       | $V_{CC} = 4.3 V$  | -          | 12   | -   | рС   |

[1]  $f_i$  is biased at 0.5V<sub>CC</sub>.

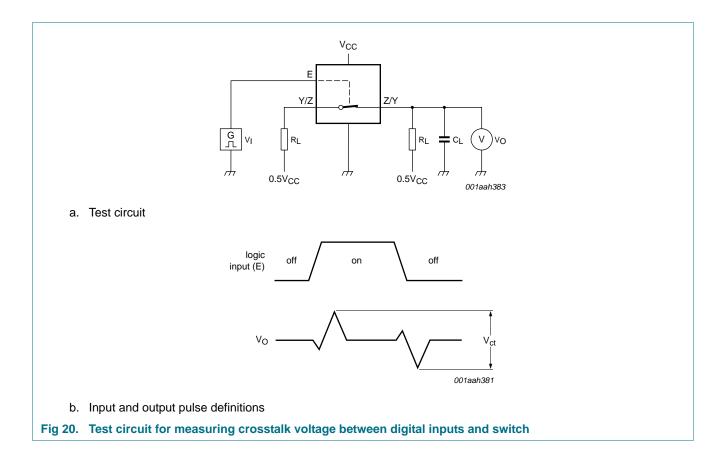
## 12.3 Test circuits



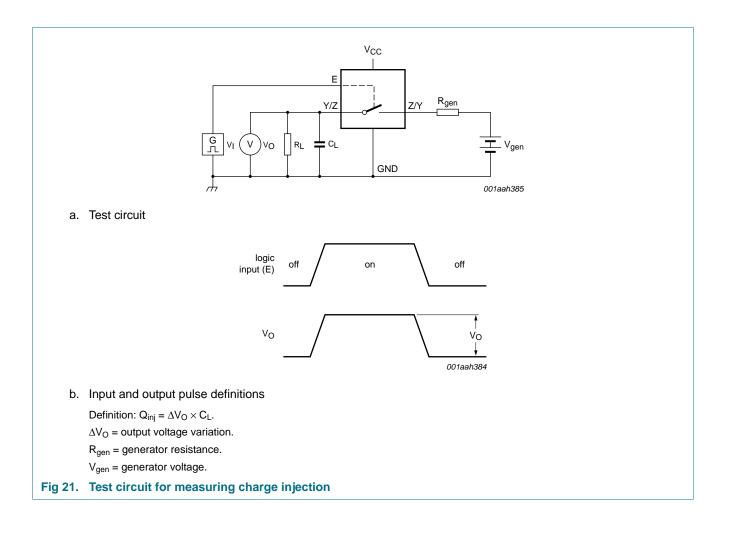
# NX3V1T66



# NX3V1T66



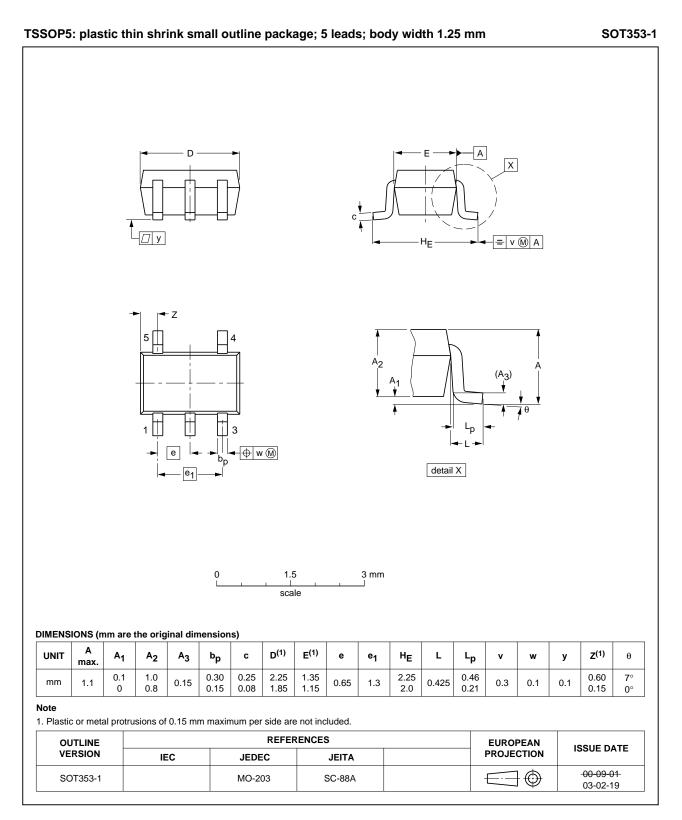
# NX3V1T66



# NX3V1T66

Low-ohmic single-pole single-throw analog switch

## 13. Package outline

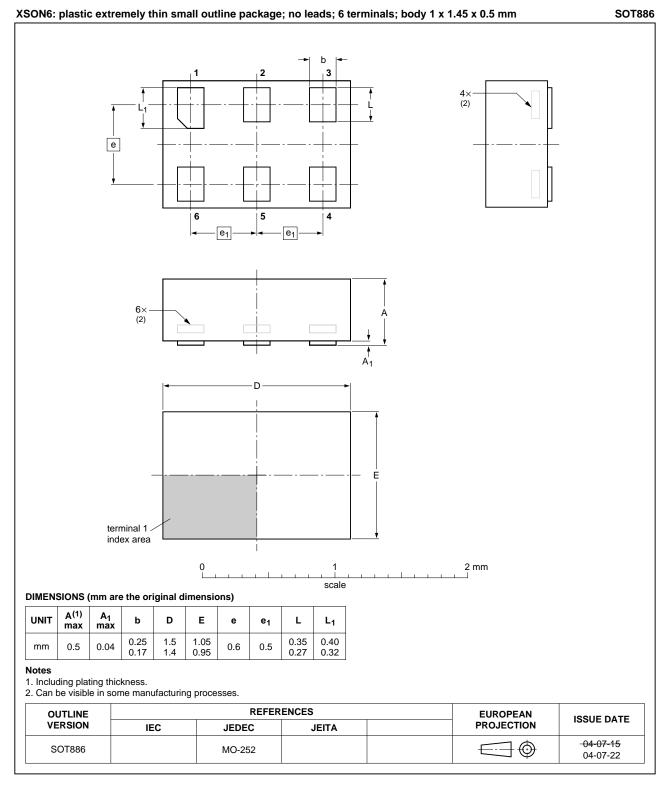


#### Fig 22. Package outline SOT353-1 (TSSOP5)

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### Fig 23. Package outline SOT886 (XSON6)

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## 14. Abbreviations

| Table 13. Abbreviations                 |  |  |  |  |
|---|--|--|--|--|
| Description                             |  |  |  |  |
| Charged Device Model                    |  |  |  |  |
| Complementary Metal Oxide Semiconductor |  |  |  |  |
| ElectroStatic Discharge                 |  |  |  |  |
| Human Body Model                        |  |  |  |  |
| Machine Model                           |  |  |  |  |
| Personal Digital Assistant              |  |  |  |  |
|   |  |  |  |  |

# 15. Revision history

| Table 14. Revision | history                        |   |               |              |  |  |
|--------------------|--------------------------------|---|---------------|--------------|--|--|
| Document ID        | Release date                   | Data sheet status                       | Change notice | Supersedes   |  |  |
| NX3V1T66 v.7       | 20111102                       | Product data sheet                      | -             | NX3V1T66 v.6 |  |  |
| Modifications:     | <ul> <li>Legal page</li> </ul> | <ul> <li>Legal pages updated</li> </ul> |               |              |  |  |
| NX3V1T66 v.6       | 20101221                       | Product data sheet                      | -             | NX3V1T66 v.5 |  |  |
| NX3V1T66 v.5       | 20100324                       | Product data sheet                      | -             | NX3V1T66 v.4 |  |  |
| NX3V1T66 v.4       | 20100202                       | Product data sheet                      | -             | NX3V1T66 v.3 |  |  |
| NX3V1T66 v.3       | 20090504                       | Product data sheet                      | -             | NX3V1T66 v.2 |  |  |
| NX3V1T66 v.2       | 20080724                       | Product data sheet                      | -             | NX3V1T66 v.1 |  |  |
| NX3V1T66 v.1       | 20080327                       | Product data sheet                      | -             | -            |  |  |
|                    |                                |   |               |              |  |  |

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### 16.1 Data sheet status

| Document status[1][2]          | Product status <sup>[3]</sup> | 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 <a href="http://www.nxp.com">http://www.nxp.com</a>.

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