

NX3L2G66

Dual low-ohmic single-pole single-throw analog switch

Rev. 04 — 28 August 2009

Product data sheet

1. General description

The NX3L2G66 provides two low-ohmic single pole single throw analog switch functions. Each switch has two input/output terminals (nY and nZ) and an active HIGH enable input (nE). When pin nE is LOW, the analog switch is turned off.

Schmitt-trigger action at the enable input (nE) makes the circuit tolerant to slower input rise and fall times across the entire V_{CC} range from 1.4 V to 4.3 V.

The NX3L2G66 allows signals with amplitude up to V_{CC} to be transmitted from nY to nZ; or from nZ to nY. Its low ON resistance (0.5 Ω) and flatness (0.13 Ω) ensures minimal attenuation and distortion of transmitted signals.

2. Features

- 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-A114E Class 3A exceeds 7500 V
 - ◆ MM JESD22-A115-A exceeds 200 V
 - ◆ CDM AEC-Q100-011 revision B exceeds 1000 V
- 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				Version
	Temperature range	Name	Description		
NX3L2G66GT	–40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm		SOT833-1
NX3L2G66GD	–40 °C to +125 °C	XSON8U	plastic extremely thin small outline package; no leads; 8 terminals; UTLP based; body 3 × 2 × 0.5 mm		SOT996-2
NX3L2G66GM	–40 °C to +125 °C	XQFN8U	plastic extremely thin quad flat package; no leads; 8 terminals; UTLP based; body 1.6 × 1.6 × 0.5 mm		SOT902-1

5. Marking

Table 2. Marking codes^[1]

Type number	Marking code
NX3L2G66GT	D66
NX3L2G66GD	D66
NX3L2G66GM	D66

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

6. Functional diagram

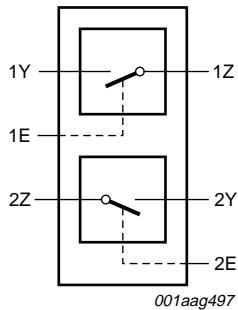


Fig 1. Logic symbol

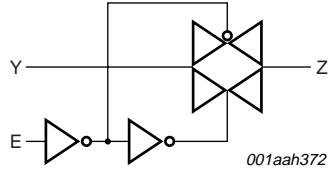
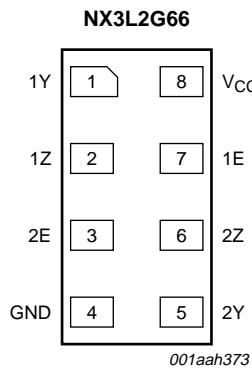


Fig 2. Logic diagram (one switch)

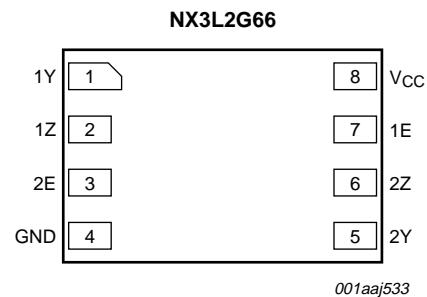
7. Pinning information

7.1 Pinning



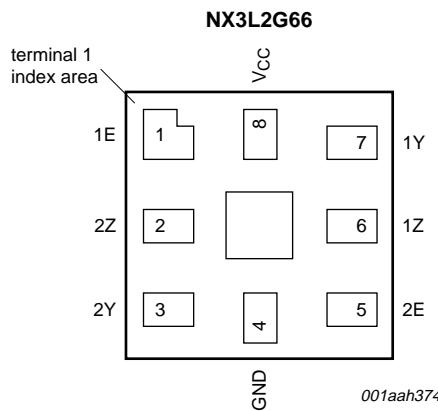
Transparent top view

Fig 3. Pin configuration SOT833-1 (XSON8)



Transparent top view

Fig 4. Pin configuration SOT996-2 (XSON8U)



Transparent top view

Fig 5. Pin configuration SOT902-1 (XQFN8U)

7.2 Pin description

Table 3. Pin description

Symbol	Pin		Description
	SOT833-1 and SOT996-2	SOT902-1	
1Y, 2Y	1, 5	7, 3	independent input or output
1Z, 2Z	2, 6	6, 2	independent input or output
GND	4	4	ground (0 V)
1E, 2E	7, 3	1, 5	enable input (active HIGH)
V _{CC}	8	8	supply voltage

8. Functional description

Table 4. Function table^[1]

Input nE	Switch
L	OFF-state
H	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
V _I	input voltage	enable input nE	[1] -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 V	-50	-	mA
I _{SK}	switch clamping current	V _I < -0.5 V or V _I > V _{CC} + 0.5 V	-	±50	mA
I _{SW}	switch current	V _{SW} > -0.5 V or V _{SW} < V _{CC} + 0.5 V; source or sink current	-	±350	mA
		V _{SW} > -0.5 V or V _{SW} < V _{CC} + 0.5 V; pulsed at 1 ms duration, < 10 % duty cycle; peak current	-	±500	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C	[3] -	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 XSON8, XSON8U and XQFN8U packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

10. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{CC}	supply voltage		1.4	-	4.3	V
V _I	input voltage	enable input nE	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 V to 4.3 V	[2]	-	200	ns/V

[1] To avoid sinking GND current from terminal nZ when switch current flows in terminal nY, the voltage drop across the bidirectional switch must not exceed 0.4 V. If the switch current flows into terminal nZ, no GND current will flow from terminal nY. 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).

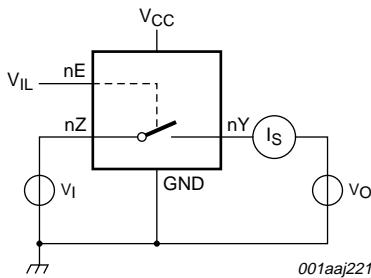
Symbol	Parameter	Conditions	25 °C			−40 °C to +125 °C			Unit
			Min	Typ	Max	Min	Max (85 °C)	Max (125 °C)	
V _{IH}	HIGH-level input voltage	V _{CC} = 1.4 V to 1.95 V	0.65V _{CC}	-	-	0.65V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	-	V
		V _{CC} = 3.6 V to 4.3 V	0.7V _{CC}	-	-	0.7V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.4 V to 1.95 V	-	-	0.35V _{CC}	-	0.35V _{CC}	0.35V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	0.7	V
		V _{CC} = 2.7 V to 3.6 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 _I	input leakage current	enable input nE; 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 leakage current	nY port; see Figure 6							
		V _{CC} = 1.4 V to 3.6 V	-	-	±5	-	±50	±500	nA
I _{S(ON)}	ON-state leakage current	V _{CC} = 3.6 V to 4.3 V	-	-	±10	-	±50	±500	nA
		nZ port; see Figure 7							
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

Table 7. Static characteristics ...continued

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

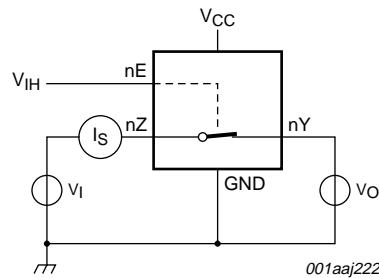
Symbol	Parameter	Conditions	25 °C			−40 °C to +125 °C			Unit
			Min	Typ	Max	Min	Max (85 °C)	Max (125 °C)	
C _I	input capacitance		-	1.0	-	-	-	-	pF
C _{S(OFF)}	OFF-state capacitance		-	35	-	-	-	-	pF
C _{S(ON)}	ON-state capacitance		-	110	-	-	-	-	pF

11.1 Test circuits



V_I = 0.3 V or V_{CC} − 0.3 V; V_O = V_{CC} − 0.3 V or 0.3 V.

Fig. 6. Test circuit for measuring OFF-state leakage current



V_I = 0.3 V or V_{CC} − 0.3 V; V_O = open circuit.

Fig. 7. Test circuit for measuring ON-state leakage current

11.2 ON resistance

Table 8. ON resistanceAt recommended operating conditions; voltages are referenced to GND (ground = 0 V); for graphs see [Figure 9](#) to [Figure 15](#).

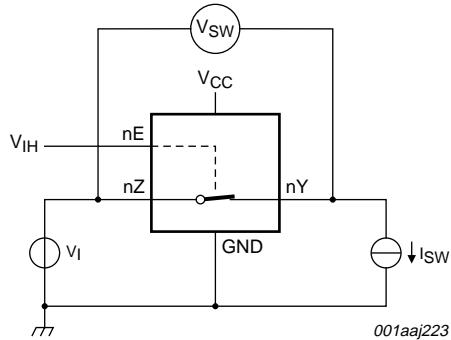
Symbol	Parameter	Conditions	−40 °C to +85 °C			−40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	
R _{ON(peak)}	ON resistance (peak)	V _I = GND to V _{CC} ; I _{SW} = 100 mA; see Figure 8						
		V _{CC} = 1.4 V	-	1.6	3.7	-	4.1	Ω
		V _{CC} = 1.65 V	-	1.0	1.6	-	1.7	Ω
		V _{CC} = 2.3 V	-	0.55	0.8	-	0.9	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

Table 8. ON resistance ...continuedAt recommended operating conditions; voltages are referenced to GND (ground = 0 V); for graphs see [Figure 9](#) to [Figure 15](#).

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	
ΔR_{ON}	ON resistance mismatch between channels	$V_I = \text{GND to } V_{CC}; I_{SW} = 100 \text{ mA}$	[2]					
			$V_{CC} = 1.4 \text{ V}$	-	0.04	0.3	-	0.3 Ω
			$V_{CC} = 1.65 \text{ V}$	-	0.04	0.2	-	0.3 Ω
			$V_{CC} = 2.3 \text{ V}$	-	0.02	0.08	-	0.1 Ω
			$V_{CC} = 2.7 \text{ V}$	-	0.02	0.075	-	0.1 Ω
			$V_{CC} = 4.3 \text{ V}$	-	0.02	0.075	-	0.1 Ω
$R_{ON(\text{flat})}$	ON resistance (flatness)	$V_I = \text{GND to } V_{CC}; I_{SW} = 100 \text{ mA}$	[3]					
			$V_{CC} = 1.4 \text{ V}$	-	1.0	3.3	-	3.6 Ω
			$V_{CC} = 1.65 \text{ V}$	-	0.5	1.2	-	1.3 Ω
			$V_{CC} = 2.3 \text{ V}$	-	0.15	0.3	-	0.35 Ω
			$V_{CC} = 2.7 \text{ V}$	-	0.13	0.3	-	0.35 Ω
			$V_{CC} = 4.3 \text{ V}$	-	0.2	0.4	-	0.45 Ω

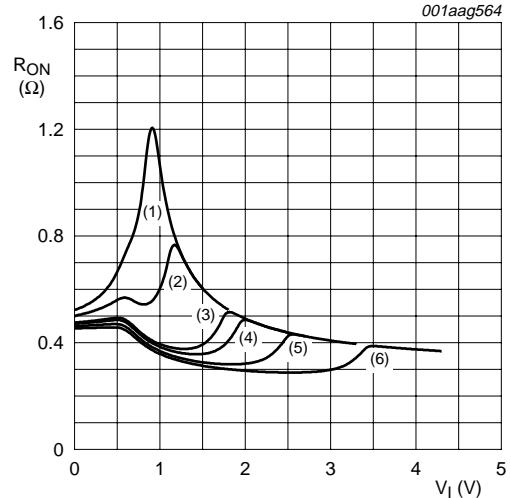
[1] Typical values are measured at $T_{amb} = 25 \text{ }^{\circ}\text{C}$.[2] Measured at identical V_{CC} , temperature and input voltage.[3] Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V_{CC} and temperature.

11.3 ON resistance test circuit and graphs



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

Fig 8. Test circuit for measuring ON resistance



(1) $V_{CC} = 1.5$ V.

(2) $V_{CC} = 1.8$ V.

(3) $V_{CC} = 2.5$ V.

(4) $V_{CC} = 2.7$ V.

(5) $V_{CC} = 3.3$ V.

(6) $V_{CC} = 4.3$ V.

Measured at $T_{amb} = 25$ °C.

Fig 9. Typical ON resistance as a function of input voltage

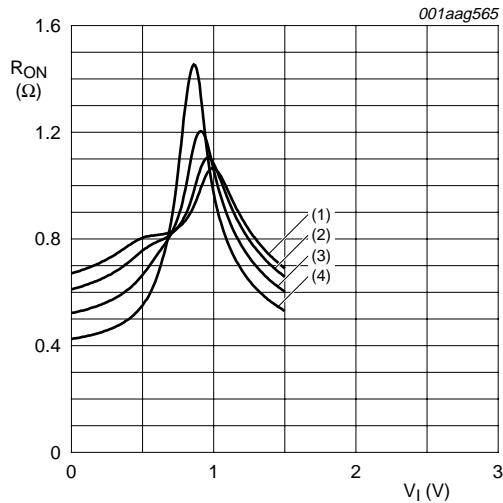


Fig 10. ON resistance as a function of input voltage;
 $V_{CC} = 1.5\text{ V}$

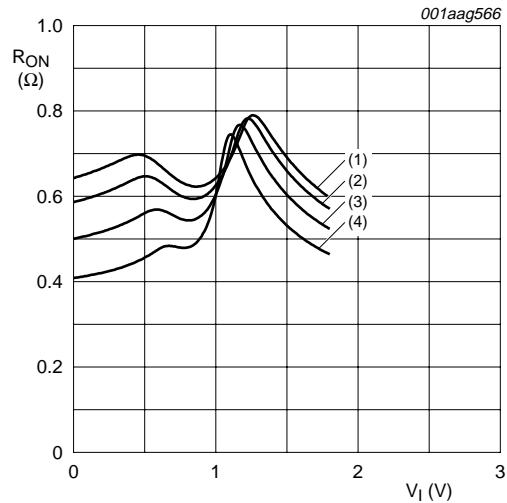


Fig 11. ON resistance as a function of input voltage;
 $V_{CC} = 1.8\text{ V}$

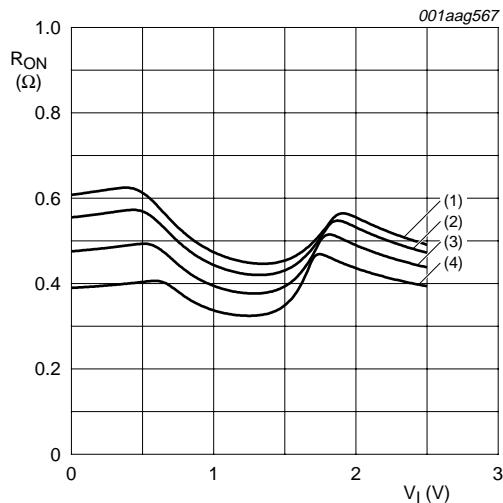


Fig 12. ON resistance as a function of input voltage;
 $V_{CC} = 2.5\text{ V}$

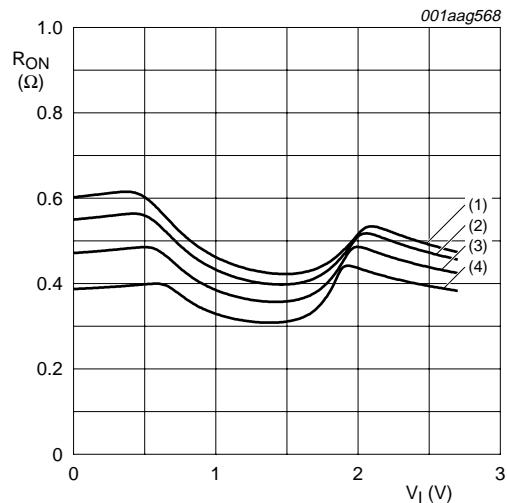


Fig 13. ON resistance as a function of input voltage;
 $V_{CC} = 2.7\text{ V}$

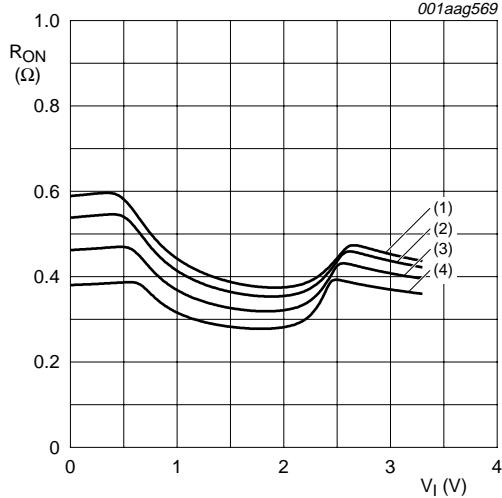


Fig 14. ON resistance as a function of input voltage; V_{CC} = 3.3 V

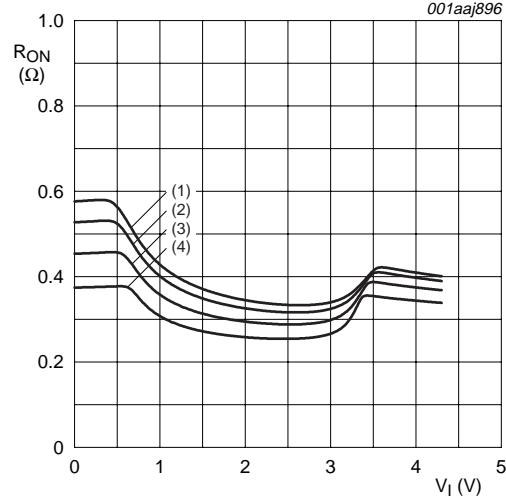


Fig 15. ON resistance as a function of input voltage; V_{CC} = 4.3 V

12. Dynamic characteristics

Table 9. Dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for load circuit see [Figure 17](#).

Symbol	Parameter	Conditions	25 °C			-40 °C to +125 °C			Unit
			Min	Typ ^[1]	Max	Min	Max (85 °C)	Max (125 °C)	
t _{en}	enable time	nE to nZ or nY; see Figure 16							
		V _{CC} = 1.4 V to 1.6 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 V to 3.6 V	-	14	23	-	24	26	ns
		V _{CC} = 3.6 V to 4.3 V	-	14	23	-	24	26	ns
t _{dis}	disable time	nE to nZ or nY; see Figure 16							
		V _{CC} = 1.4 V to 1.6 V	-	9	18	-	19	21	ns
		V _{CC} = 1.65 V to 1.95 V	-	7	13	-	14	15	ns
		V _{CC} = 2.3 V to 2.7 V	-	4	8	-	9	10	ns
		V _{CC} = 2.7 V to 3.6 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.

12.1 Waveform and test circuits

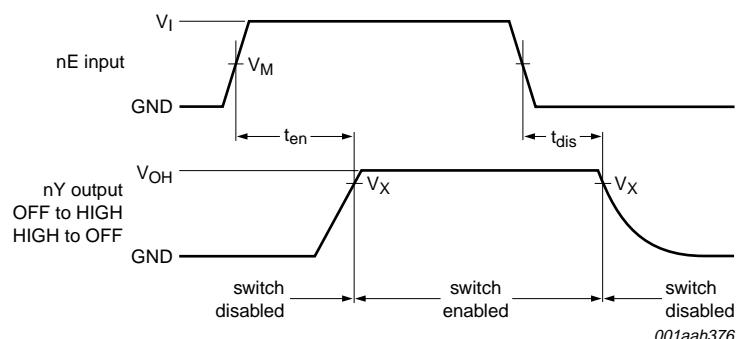


Fig 16. Enable and disable times

Table 10. Measurement points

Supply voltage	Input	Output
V_{CC}	V_M	V_X
1.4 V to 4.3 V	$0.5V_{CC}$	$0.9V_{OH}$

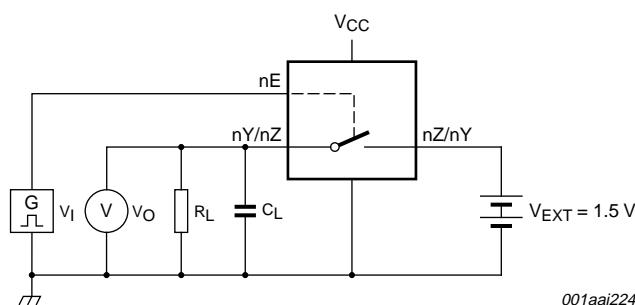


Fig 17. Load circuit for switching times

Table 11. Test data

Supply voltage	Input	Load
V_{CC}	V_I	t_r, t_f
1.4 V to 4.3 V	V_{CC}	$\leq 2.5 \text{ ns}$

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); $t_f = t_f \leq 2.5 \text{ ns}$.

Symbol	Parameter	Conditions	25 °C			Unit
			Min	Typ	Max	
THD	total harmonic distortion	$f_i = 20 \text{ Hz to } 20 \text{ kHz}$; $R_L = 32 \Omega$; see Figure 18	[1]			
		$V_{CC} = 1.4 \text{ V}$; $V_I = 1 \text{ V}$ (p-p)	-	0.15	-	%
		$V_{CC} = 1.65 \text{ V}$; $V_I = 1.2 \text{ V}$ (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	-	%
$f_{(-3\text{dB})}$	-3 dB frequency response	$R_L = 50 \Omega$; see Figure 19	[1]			
		$V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$	-	60	-	MHz
α_{iso}	isolation (OFF-state)	$f_i = 100 \text{ kHz}$; $R_L = 50 \Omega$; see Figure 20	[1]			
		$V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$	-	-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 21				
		$V_{CC} = 1.4 \text{ V to } 3.6 \text{ V}$	-	0.2	-	V
Xtalk	crosstalk	$V_{CC} = 3.6 \text{ V to } 4.3 \text{ V}$	-	0.2	-	V
		between switches;	[1]			
		$f_i = 100 \text{ kHz}$; $R_L = 50 \Omega$; see Figure 22				
Q_{inj}	charge injection	$V_{CC} = 1.4 \text{ V to } 4.3 \text{ V}$	-	-90	-	dB
		$f_i = 1 \text{ MHz}$; $C_L = 0.1 \text{ nF}$; $R_L = 1 \text{ M}\Omega$; $V_{gen} = 0 \text{ V}$; $R_{gen} = 0 \Omega$; see Figure 23				
		$V_{CC} = 1.5 \text{ V}$	-	3	-	pC
		$V_{CC} = 1.8 \text{ V}$	-	3	-	pC
		$V_{CC} = 2.5 \text{ V}$	-	3	-	pC
		$V_{CC} = 3.3 \text{ V}$	-	3	-	pC
		$V_{CC} = 4.3 \text{ V}$	-	6	-	pC

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

12.3 Test circuits

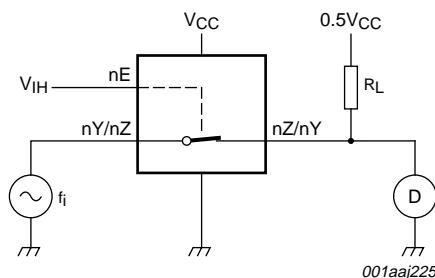
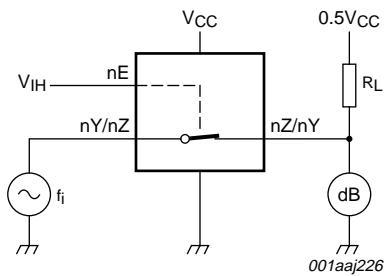
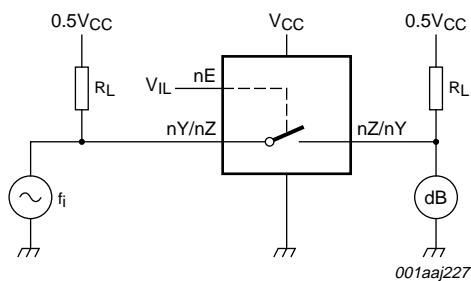


Fig 18. Test circuit for measuring total harmonic distortion



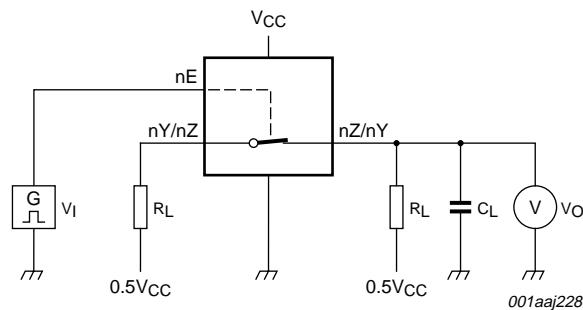
Adjust f_i voltage to obtain 0 dBm level at output. Increase f_i frequency until dB meter reads -3 dB.

Fig 19. Test circuit for measuring the frequency response when channel is in ON-state

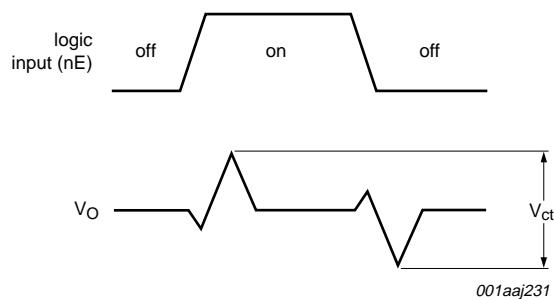


Adjust f_i voltage to obtain 0 dBm level at input.

Fig 20. Test circuit for measuring isolation (OFF-state)

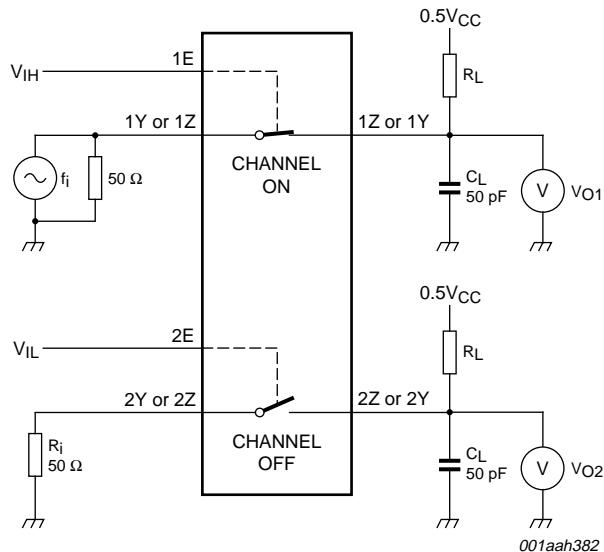


a. Test circuit



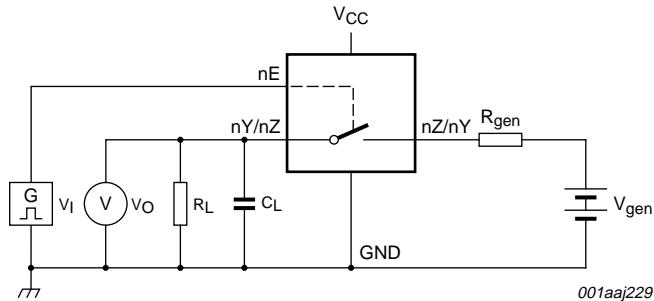
b. Input and output pulse definitions

Fig 21. Test circuit for measuring crosstalk voltage between digital inputs and switch

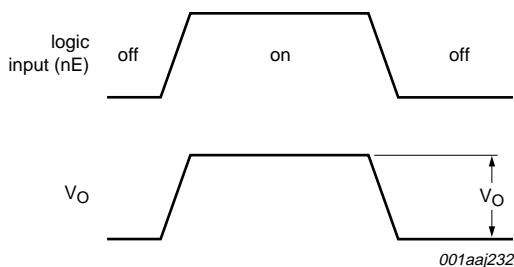


$$20 \log_{10} (V_{O2} / V_{O1}) \text{ or } 20 \log_{10} (V_{O1} / V_{O2}).$$

Fig 22. Test circuit for measuring crosstalk between switches



001aaaj229

a. Test circuit

001aaaj232

b. Input and output pulse definitionsDefinition: $Q_{inj} = \Delta V_O \times C_L$. ΔV_O = output voltage variation. R_{gen} = generator resistance. V_{gen} = generator voltage.**Fig 23. Test circuit for measuring charge injection**

13. Package outline

XSON8: plastic extremely thin small outline package; no leads; 8 terminals; body $1 \times 1.95 \times 0.5$ mm

SOT833-1

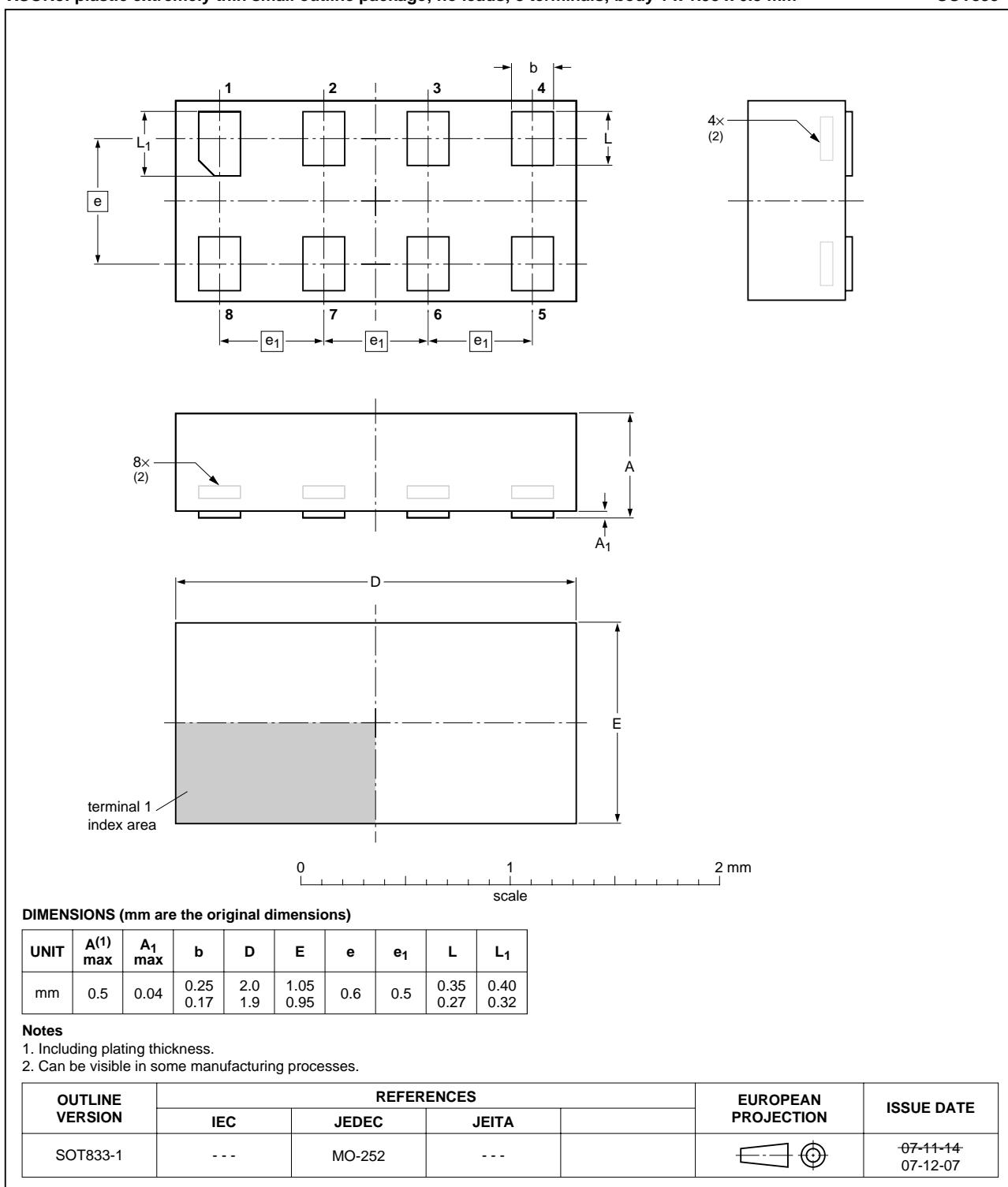


Fig 24. Package outline SOT833-1 (XSON8)

XSON8U: plastic extremely thin small outline package; no leads;
8 terminals; UTLP based; body 3 x 2 x 0.5 mm

SOT996-2

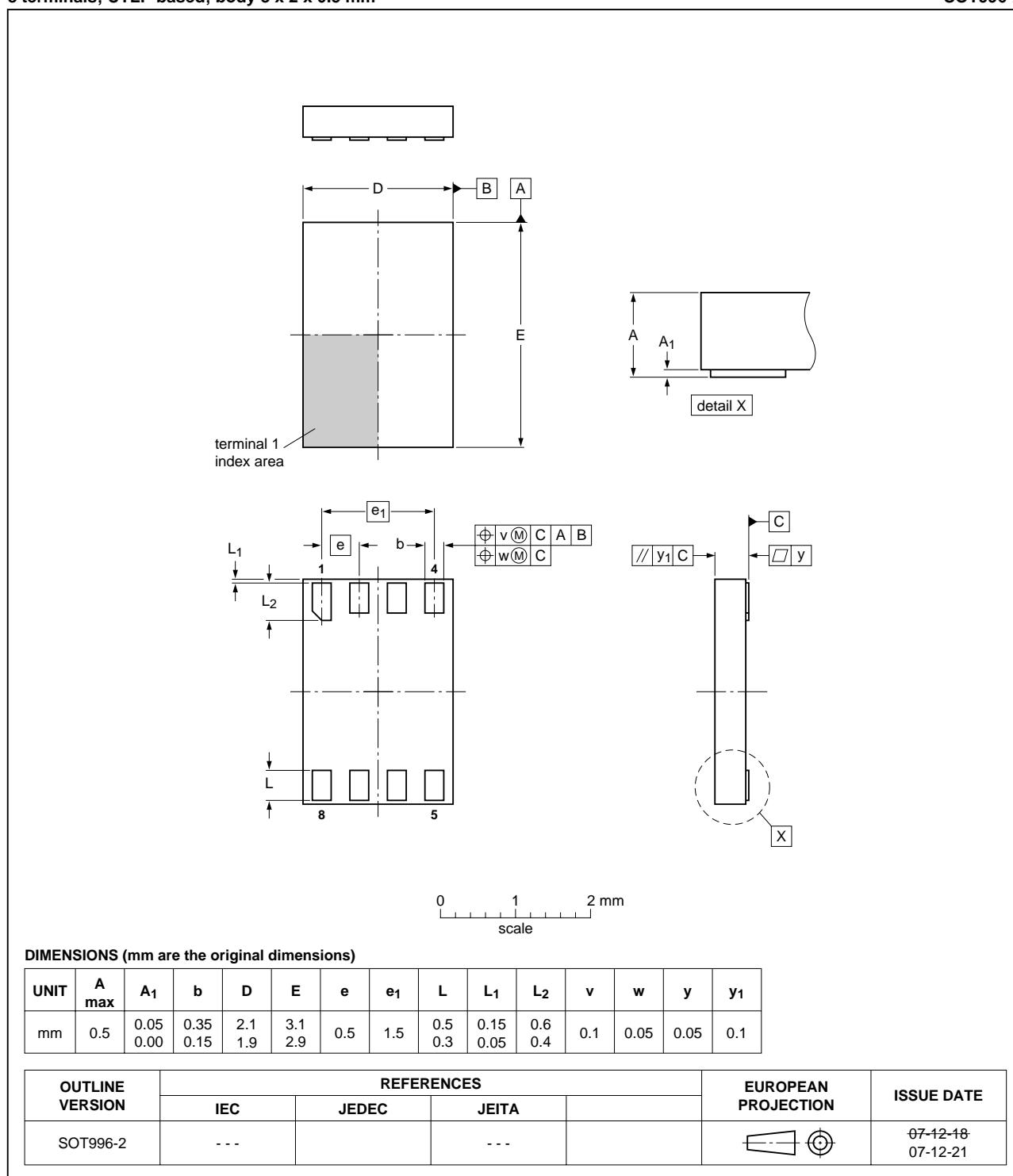


Fig 25. Package outline SOT996-2 (XSON8U)

XQFN8U: plastic extremely thin quad flat package; no leads;
8 terminals; UTLP based; body 1.6 x 1.6 x 0.5 mm

SOT902-1

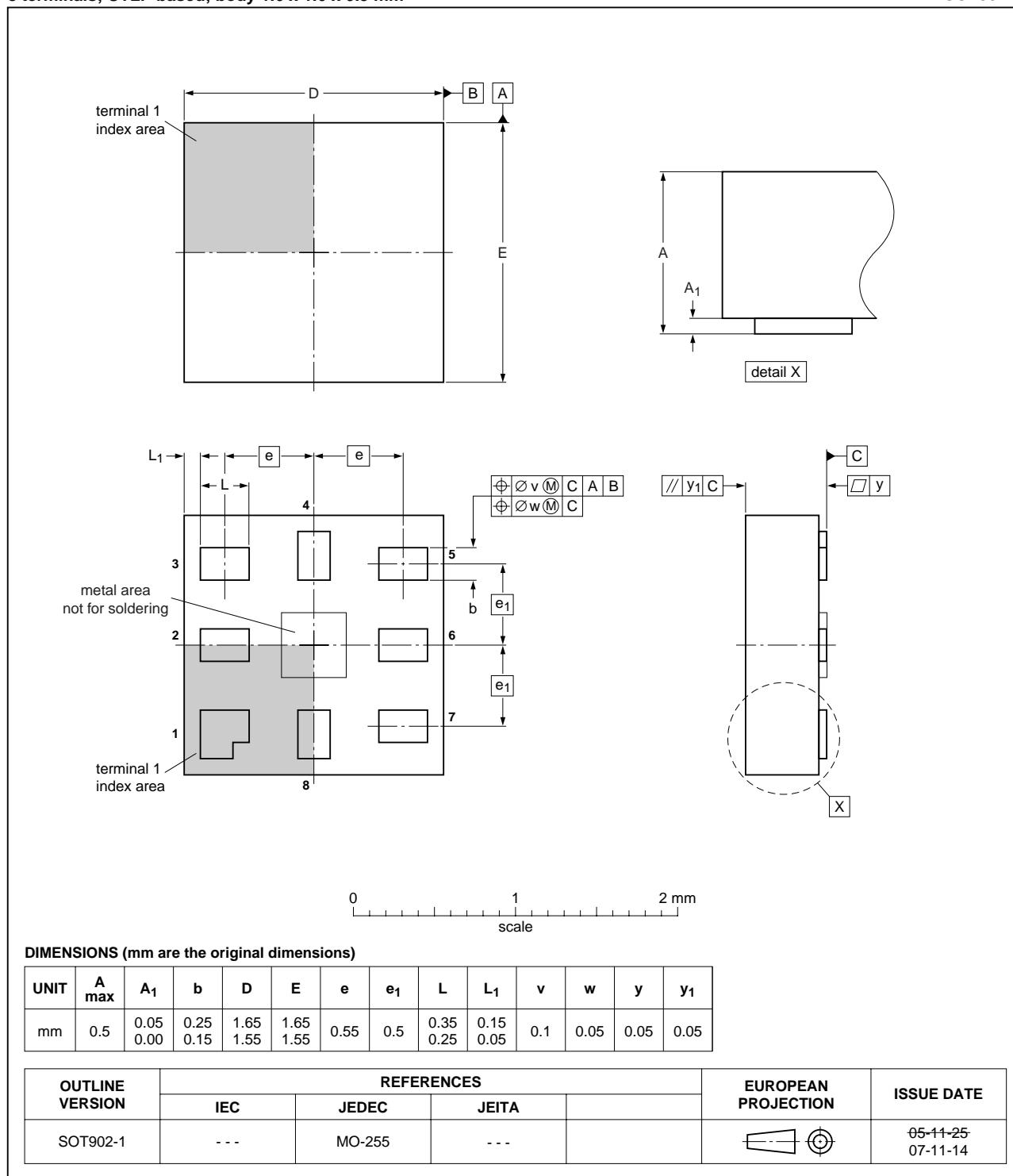


Fig 26. Package outline SOT902-1 (XQFN8U)

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
TTL	Transistor-Transistor Logic

15. Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
NX3L2G66_4	20090828	Product data sheet	-	NX3L2G66_3
Modifications:			<ul style="list-style-type: none"> • Figure 7 “Test circuit for measuring ON-state leakage current” updated. • Table 8 “ON resistance”: $R_{ON(flat)}$ values for $V_{CC} = 4.3$ V updated. 	
NX3L2G66_3	20090409	Product data sheet	-	NX3L2G66_2
NX3L2G66_2	20090326	Product data sheet	-	NX3L2G66_1
NX3L2G66_1	20080131	Product data sheet	-	-

16. Legal information

16.1 Data sheet status

Document status ^{[1][2]}	Product status ^[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <http://www.nxp.com>.

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