Overvoltage tolerant bilateral switch Rev. 8 — 5 November 2018

### 1. General description

The 74LVCV2G66 is a low-power, low-voltage, high-speed Si-gate CMOS device.

The 74LVCV2G66 provides two single pole single throw analog or digital switches. Each switch includes an overvoltage tolerant input/output terminal (pin nZ), an output/input terminal (pin nY) and low-power active HIGH enable input (pin nE).

The overvoltage tolerant switch terminals allow the switching of signals in excess of V<sub>CC</sub>. The low-power enable input eliminates the necessity of using current limiting resistors in portable applications when using control logic signals much lower than V<sub>CC</sub>. These inputs are also overvoltage tolerant.

### 2. Features and benefits

- Wide supply voltage range from 2.3 V to 5.5 V
- Ultra low-power operation
- · Very low ON resistance:
  - 8.0  $\Omega$  (typical) at V<sub>CC</sub> = 2.7 V
  - 7.5  $\Omega$  (typical) at V<sub>CC</sub> = 3.3 V
  - 7.3  $\Omega$  (typical) at V<sub>CC</sub> = 5.0 V.
- 5 V tolerant input for interfacing with 5 V logic
- High noise immunity
- Switch handling capability of 32 mA
- CMOS low-power consumption
- Latch-up performance exceeds 250 mA
- Incorporates overvoltage tolerant analog switch technology
- Switch accepts voltages up to 5.5 V independent of V<sub>CC</sub>
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

### 3. Ordering information

#### Table 1. Ordering information

Type number	Package								
	Temperature range	Name	Description	Version					
74LVCV2G66DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1					
74LVCV2G66GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 x 1.95 x 0.5 mm	SOT833-1					
74LVCV2G66GM	-40 °C to +125 °C	XQFN8	plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 x 1.6 x 0.5 mm	SOT902-2					

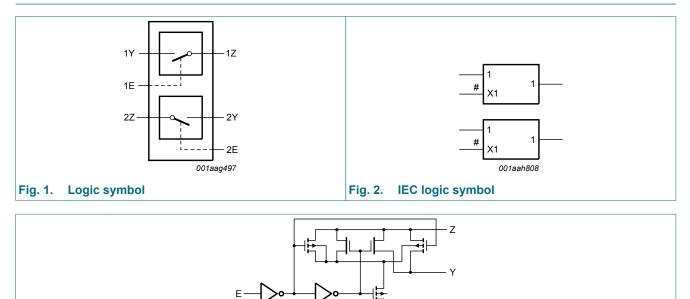
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### 4. Marking

Table 2. Marking codes	
Type number	Marking code[1]
74LVCV2G66DC	Y66
74LVCV2G66GT	Y66
74LVCV2G66GM	Y66

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

### 5. Functional diagram



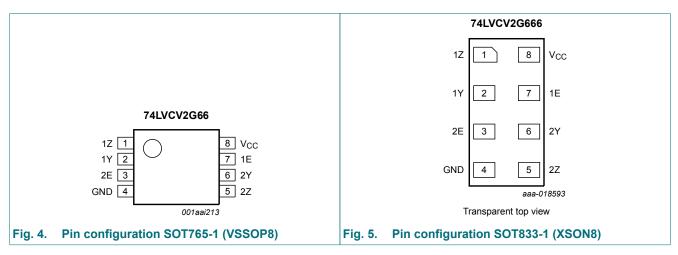
V<sub>CC</sub>

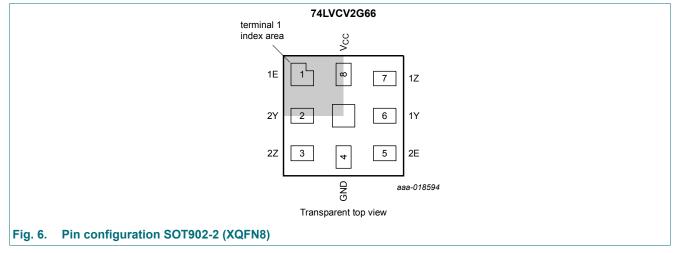
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Fig. 3. Logic diagram (one switch)

### 6. Pinning information







### 6.2. Pin description

#### Table 3. Pin description

Symbol	Pin		Description
	SOT765-1 and SOT833-1	SOT902-2	
1Z	1	7	independent input or output (overvoltage tolerant)
1Y	2	6	independent input or output
2E	3	5	enable input (active HIGH)
GND	4	4	ground (0 V)
2Z	5	3	independent input or output (overvoltage tolerant)
2Y	6	2	independent input or output
1E	7	1	enable input (active HIGH)
V <sub>CC</sub>	8	8	supply voltage

### 7. Functional description

#### Table 4. Function table

*H* = *HIGH* voltage level; *L* = *LOW* voltage level.

Input nE	Switch
L	OFF-state
Н	ON-state

### 8. 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 <sub>CC</sub>	supply voltage			-0.5	+6.5	V
VI	input voltage		[1]	-0.5	+6.5	V
I <sub>IK</sub>	input clamping current	$V_{l}$ < -0.5 V or $V_{l}$ > 6.5 V		-50	-	mA
I <sub>SK</sub>	switch clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > 6.5 V		-	±50	mA
V <sub>SW</sub>	switch voltage	enable and disable mode		-0.5	+6.5	V
I <sub>SW</sub>	switch current	$V_{SW}$ > -0.5 V or $V_{SW}$ < 6.5 V		-	±50	mA
I <sub>CC</sub>	supply current			-	100	mA
I <sub>GND</sub>	ground current			-100	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C	[2]	-	250	mW

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

[2] For VSSOP8 package: above 110 °C, the value of P<sub>tot</sub> derates linearly with 8 mW/K.

For XSON8 and XQFN8 packages: above 118 °C, the value of Ptot derates linearly with 7.8 mW/K.

### 9. Recommended operating conditions

#### Table 6. Recommended operating conditions

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage			2.3	-	5.5	V
VI	input voltage			0	-	5.5	V
V <sub>SW</sub>	switch voltage	enable and disable mode	[1]	0	-	5.5	V
T <sub>amb</sub>	ambient temperature			-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.3 V to 2.7 V	[2]	-	-	20	ns/V
		V <sub>CC</sub> = 2.7 V to 5.5 V	[2]	-	-	10	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 flows from terminal nY. In this case, there is no limit for the voltage drop across the switch.

[2] Applies to control signal levels.

### 10. Static characteristics

#### **Table 7. Static characteristics**

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

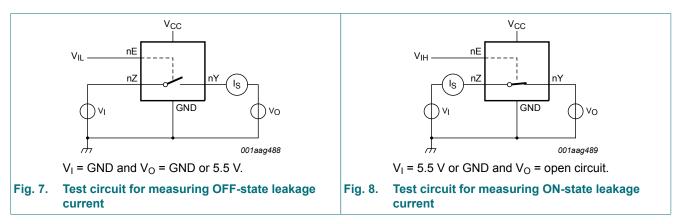
Symbol	Parameter	Conditions		-40 °	°C to +8	5 °C	-40 °C to	Unit	
				Min	Typ[1]	Max	Min	Мах	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.3 V to 2.7 V		0.6V <sub>CC</sub>	-	-	0.6V <sub>CC</sub>	-	V
	input voltage	V <sub>CC</sub> = 3.0 V to 3.6 V		2.0	-	-	2.0	-	V
		V <sub>CC</sub> = 4.5 V to 5.5 V		$0.55V_{CC}$	-	-	$0.55V_{CC}$	-	V
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 2.3 V to 2.7 V		-	-	0.1V <sub>CC</sub>	-	0.1V <sub>CC</sub>	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V		-	-	0.5	-	0.5	V
		V <sub>CC</sub> = 4.5 V to 5.5 V		-	-	0.15V <sub>CC</sub>	-	0.15V <sub>CC</sub>	V
l <sub>l</sub>	input leakage current	pin nE; V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	[2]	-	±0.1	±1	-	±1	μA
I <sub>S(OFF)</sub>	OFF-state leakage current	V <sub>CC</sub> = 2.3 V to 5.5 V; see <u>Fig. 7</u>	[2][3]	-	±0.1	±0.4	-	±1	μA
I <sub>S(ON)</sub>	ON-state leakage current	V <sub>CC</sub> = 2.3 V to 5.5 V; see <u>Fig. 8</u>	[2][3]	-	±0.1	±2	-	±4	μA
I <sub>CC</sub>	supply current	$V_{I} = 5.5 V \text{ or GND};$ $V_{SW} = GND \text{ or } V_{CC};$ $V_{CC} = 2.3 V \text{ to } 5.5 V$	[2]	-	0.1	4	-	4	μA
ΔI <sub>CC</sub>	additional supply current	pin nE; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; V <sub>SW</sub> = GND or V <sub>CC</sub> ; V <sub>CC</sub> = 3.0 V to 5.5 V	[2]	-	0.1	5	-	50	μA
CI	input capacitance			-	2.5	-	-	-	pF
$C_{S(OFF)}$	OFF-state capacitance			-	8.0	-	-	-	pF
C <sub>S(ON)</sub>	ON-state capacitance			-	16	-	-	-	pF

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

[2]

These typical values are measured at V<sub>CC</sub> = 3.3 V. For overvoltage signals (V<sub>SW</sub> > V<sub>CC</sub>), the condition V<sub>Y</sub> < V<sub>Z</sub> must be observed. [3]

#### 10.1. Test circuits



#### 10.2. ON resistance

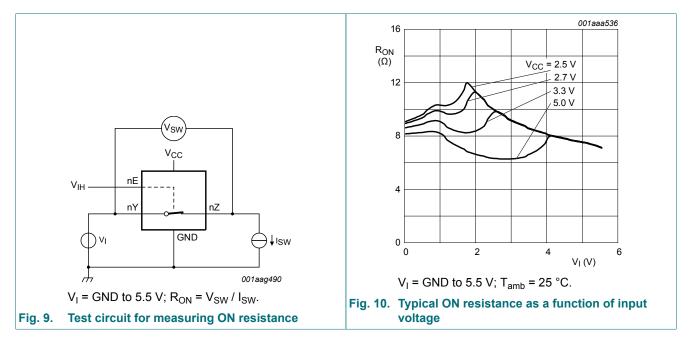
#### Table 8. Resistance R<sub>ON</sub>

At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graphs see Fig. 10 and Fig. 11.

Symbol Parameter		Conditions		°C to +8	5 °C	-40 °C to	Unit	
			Min	Typ[1]	Max	Min	Max	
R <sub>ON(peak)</sub>	ON resistance	$V_{SW}$ = GND to $V_{CC}$ ; $V_I$ = $V_{IH}$ ; see <u>Fig. 9</u>						
	(peak)	$I_{SW}$ = 8 mA; $V_{CC}$ = 2.3 V to 2.7 V	-	13	30	-	30	Ω
		I <sub>SW</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	10	25	-	25	Ω
		$I_{SW}$ = 24 mA; $V_{CC}$ = 3.0 V to 3.6 V	-	8.3	20	-	20	Ω
		$I_{SW}$ = 32 mA; $V_{CC}$ = 4.5 V to 5.5 V	-	7.4	15	-	15	Ω
R <sub>ON(rail)</sub>	ON resistance (rail)	$V_{SW} = GND; V_I = V_{IH}; see Fig. 9$						
		$I_{SW}$ = 8 mA; $V_{CC}$ = 2.3 V to 2.7 V	-	8.5	20	-	20	Ω
		I <sub>SW</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	8.0	18	-	18	Ω
		$I_{SW}$ = 24 mA; $V_{CC}$ = 3.0 V to 3.6 V	-	7.5	15	-	15	Ω
		$I_{SW}$ = 32 mA; $V_{CC}$ = 4.5 V to 5.5 V	-	7.3	10	-	10	Ω
		$V_{SW} = V_{CC}; V_I = V_{IH}$					·	
		$I_{SW}$ = 8 mA; $V_{CC}$ = 2.3 V to 2.7 V	-	8.5	20	-	20	Ω
		I <sub>SW</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	7.2	18	-	18	Ω
		$I_{SW}$ = 24 mA; $V_{CC}$ = 3.0 V to 3.6 V	-	6.5	15	-	15	Ω
		$I_{SW}$ = 32 mA; $V_{CC}$ = 4.5 V to 5.5 V	-	5.7	10	-	10	Ω
R <sub>ON(flat)</sub>	ON resistance	$V_{SW}$ = GND to $V_{CC}$ ; $V_I$ = $V_{IH}$ [2]						
	(flatness)	I <sub>SW</sub> = 8 mA; V <sub>CC</sub> = 2.5 V	-	17	-	-	-	Ω
		I <sub>SW</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	10	-	-	-	Ω
		I <sub>SW</sub> = 24 mA; V <sub>CC</sub> = 3.3 V	-	5	-	-	-	Ω
		I <sub>SW</sub> = 32 mA; V <sub>CC</sub> = 5.0 V	-	3	-	-	-	Ω

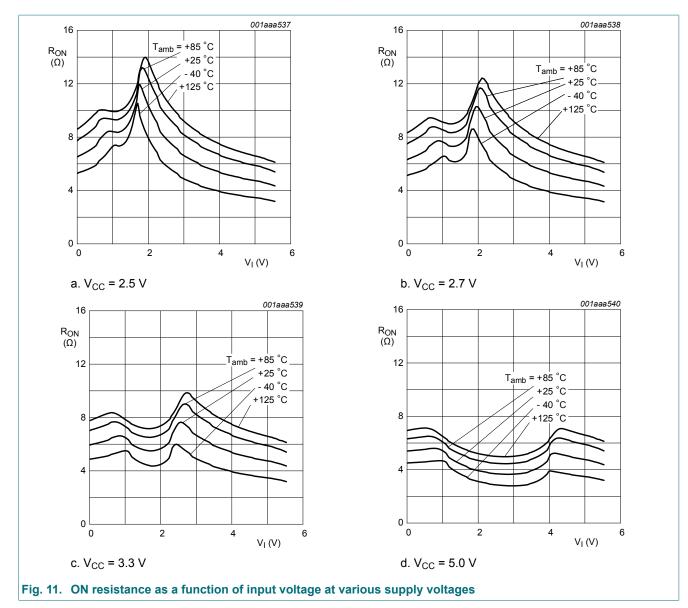
[1]

All typical values are measured at  $T_{amb}$  = 25 °C and nominal  $V_{CC}$ . Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical  $V_{CC}$  and temperature. [2]



### 10.3. ON resistance test circuit and graphs

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### 11. Dynamic characteristics

#### **Table 9. Dynamic characteristics**

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit, see Fig. 14.

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	-40 °C to +125 °C			
			Min	Typ[1]	Мах	Min	Max			
t <sub>pd</sub>	propagation delay	nY to nZ or nZ to nY; see Fig. 12 [2	2][3]							
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	0.4	1.2	-	2.0	ns		
		V <sub>CC</sub> = 2.7 V	-	0.4	1.0	-	1.5	ns		
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	0.3	0.8	-	1.5	ns		
	V <sub>CC</sub> = 4.5 V to 5.5 V	-	0.2	0.6	-	1.0	ns			
t <sub>en</sub>	enable time	nE to nY or nZ; see Fig. 13 [4]								
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.0	4.7	12	1.0	15	ns		
		V <sub>CC</sub> = 2.7 V	1.0	4.4	8.5	1.0	11	ns		
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	3.8	7.5	1.0	9.5	ns		
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.0	2.7	5.0	1.0	6.5	ns		
t <sub>dis</sub>	disable time	nE to nY or nZ; see Fig. 13 [5]								
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.0	6.0	16	1.0	20	ns		
		V <sub>CC</sub> = 2.7 V	1.0	7.9	15	1.0	19	ns		
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	6.5	13.5	1.0	17	ns		
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.0	4.4	9.0	1.0	11.5	ns		
C <sub>PD</sub>	power dissipation	C <sub>L</sub> = 50 pF; f <sub>i</sub> = 10 MHz; V <sub>I</sub> = GND	to 5.5 V[6	6]						
	capacitance	V <sub>CC</sub> = 2.5 V	-	9.7	-	-	-	pF		
		V <sub>CC</sub> = 3.3 V	-	10.3	-	-	-	pF		
		V <sub>CC</sub> = 5.0 V	-	11.3	-	-	-	pF		

Typical values are measured at  $T_{amb}$  = 25 °C and nominal V<sub>CC</sub>. [1]

[2]

 $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ . Propagation delay is the calculated RC time constant of the typical ON resistance of the switch and the specified capacitance when [3] driven by an ideal voltage source (zero output impedance).

[4] ten is the same as tPZH and tPZL.

 $t_{\text{dis}}$  is the same as  $t_{\text{PLZ}}$  and  $t_{\text{PHZ}}.$ [5]

 $C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in µW). [6]

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \Sigma \{(C_{L} + C_{S(ON)}) \times V_{CC}^{2} \times f_{o}\} \text{ where:}$ 

f<sub>i</sub> = input frequency in MHz;

 $f_0$  = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

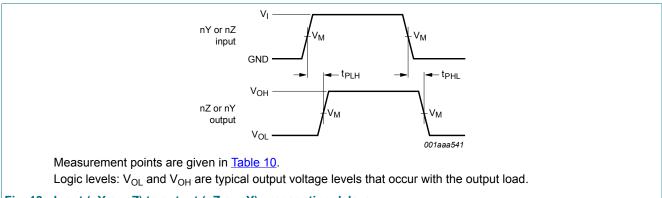
C<sub>S(ON)</sub> = maximum ON-state switch capacitance in pF;

V<sub>CC</sub> = supply voltage in V;

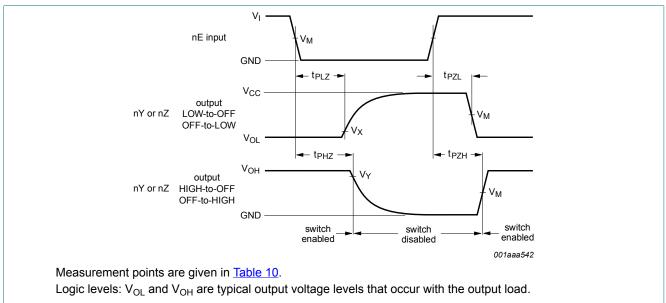
N = number of inputs switching;

 $\Sigma$ {(C<sub>L</sub> + C<sub>S(ON)</sub>) x V<sub>CC</sub><sup>2</sup> x f<sub>o</sub>} = sum of the outputs.





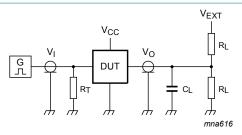
#### Fig. 12. Input (nY or nZ) to output (nZ or nY) propagation delays



#### Fig. 13. Enable and disable times

Table 10. Measurem	ent points			
Supply voltage	Input	Output		
V <sub>cc</sub>	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>
2.3 V to 2.7 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.1V <sub>CC</sub>	V <sub>OH</sub> - 0.1V <sub>CC</sub>
2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V
3.0 V to 3.6 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V
4.5 V to 5.5 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V

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Test data is given in Table 11.

Definitions test circuit:

- $R_T$  = Termination resistance should be equal to output impedance  $Z_0$  of the pulse generator.
- $C_{\text{L}}$  = Load capacitance including jig and probe capacitance.
- R<sub>L</sub> = Load resistance.

V<sub>EXT</sub> = External voltage for measuring switching times.

#### Fig. 14. Test circuit for measuring switching times

#### Table 11. Test data

Supply voltage	Input		Load		V <sub>EXT</sub>		
V <sub>cc</sub>	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PLH,</sub> t <sub>PHL</sub>	t <sub>PZH,</sub> t <sub>PHZ</sub>	t <sub>PZL,</sub> t <sub>PLZ</sub>
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	open	GND	2V <sub>CC</sub>
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6.0 V
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6.0 V
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V <sub>CC</sub>

### 11.2. Additional dynamic characteristics

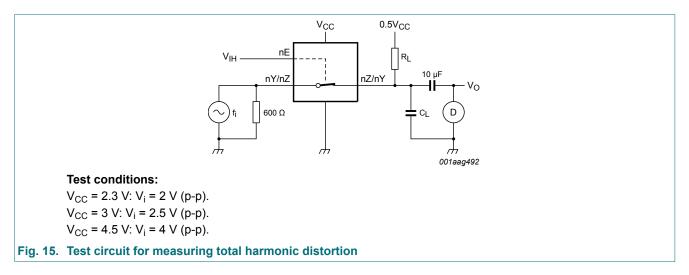
#### Table 12. Additional dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); T<sub>amb</sub> = 25 °C.

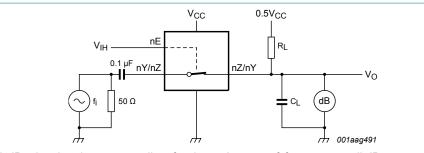
Symbol	Parameter	Conditions	Min	Тур	Max	Unit				
THD	total harmonic distortion	$f_i$ = 1 kHz; R <sub>L</sub> = 10 kΩ; C <sub>L</sub> = 50 pF; see Fig. 15								
		V <sub>CC</sub> = 2.3 V	-	0.42	-	%				
		V <sub>CC</sub> = 3.0 V	-	0.36	-	%				
		V <sub>CC</sub> = 4.5 V	-	0.47	-	%				
		$f_i$ = 10 kHz; $R_L$ = 10 k $\Omega$ ; $C_L$ = 50 pF; see Fig.	15			_				
		V <sub>CC</sub> = 2.3 V	-	0.11	-	%				
		V <sub>CC</sub> = 3.0 V	-	0.07	-	%				
		V <sub>CC</sub> = 4.5 V	-	0.01	-	%				
f <sub>(-3dB)</sub>	-3 dB frequency response	$R_L$ = 600 Ω; $C_L$ = 50 pF; see <u>Fig. 16</u>				_				
		V <sub>CC</sub> = 2.3 V	-	160	-	MHz				
		V <sub>CC</sub> = 3.0 V	-	200	-	MHz				
		V <sub>CC</sub> = 4.5 V	-	210	-	MHz				
		$R_L$ = 50 Ω; $C_L$ = 5 pF; see <u>Fig. 16</u>								
		V <sub>CC</sub> = 2.3 V	-	180	-	MHz				
		V <sub>CC</sub> = 3.0 V	-	180	-	MHz				
		V <sub>CC</sub> = 4.5 V	-	180	-	MHz				

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
α <sub>iso</sub>	isolation (OFF-state)	$R_L$ = 600 Ω; $C_L$ = 50 pF; $f_i$ = 1 MHz; see <u>Fig. 17</u>				
		V <sub>CC</sub> = 2.3 V	-	-65	-	dB
		V <sub>CC</sub> = 3.0 V	-	-65	-	dB
		V <sub>CC</sub> = 4.5 V	-	-62	-	dB
		$R_L$ = 50 Ω; $C_L$ = 5 pF; $f_i$ = 1 MHz; see Fig. 17				
		V <sub>CC</sub> = 2.3 V	-	-37	-	dB
		V <sub>CC</sub> = 3.0 V	-	-36	-	dB
		V <sub>CC</sub> = 4.5 V	-	-36	-	dB
V <sub>ct</sub>	crosstalk voltage	between digital inputs and switch; $R_L = 600 \Omega$ ; $C_L = 50 pF$ ; $f_i = 1 MHz$ ; $t_r = t_f = 2 ns$ ; see Fig. 18				
		V <sub>CC</sub> = 2.3 V	-	91	-	mV
		V <sub>CC</sub> = 3.0 V	-	119	-	mV
		V <sub>CC</sub> = 4.5 V	-	205	-	mV
Xtalk	crosstalk	between switches; $R_L = 600 \Omega$ ; $C_L = 50 pF$ ; $f_i = 1 MHz$ ; see Fig. 19				
		V <sub>CC</sub> = 2.3 V	-	-56	-	dB
		V <sub>CC</sub> = 3.0 V	-	-55	-	dB
		V <sub>CC</sub> = 4.5 V	-	-55	-	dB
		between switches; $R_L = 50 \Omega$ ; $C_L = 5 pF$ ; $f_i = 1 MHz$ ; see Fig. 19				
		V <sub>CC</sub> = 2.3 V	-	-29	-	dB
		V <sub>CC</sub> = 3.0 V	-	-28	-	dB
		V <sub>CC</sub> = 4.5 V	-	-28	-	dB
Q <sub>inj</sub>	charge injection	$C_{L} = 0.1 \text{ nF}; V_{gen} = 0 \text{ V}; R_{gen} = 0 \Omega; f_{i} = 1 \text{ MHz}; R_{L} = 1 \text{ M}\Omega; \text{ see } Fig. 20$				
		V <sub>CC</sub> = 2.5 V	-	< 0.003	-	рС
		V <sub>CC</sub> = 3.3 V	-	0.003	-	рС
		V <sub>CC</sub> = 4.5 V	-	0.0035	-	рС
		V <sub>CC</sub> = 5.5 V	-	0.0035	-	рС

#### 11.3. Test circuits

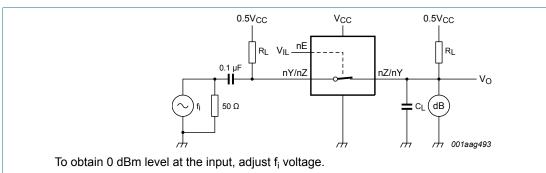


#### Overvoltage tolerant bilateral switch



To obtain 0 dBm level at the output, adjust fi voltage. Increase fi frequency until dB meter reads -3 dB.





#### Fig. 17. Test circuit for measuring isolation (OFF-state)

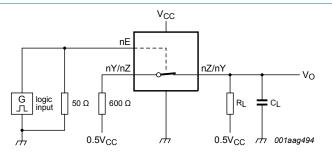
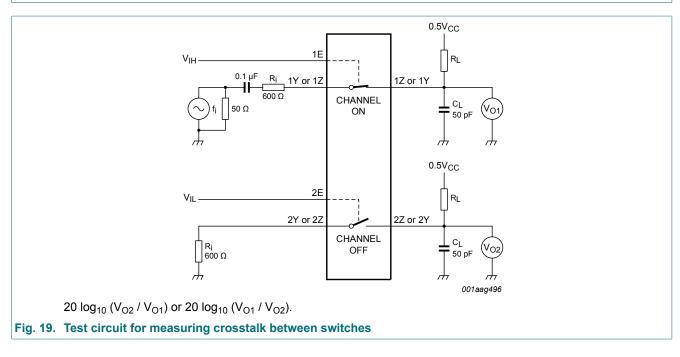
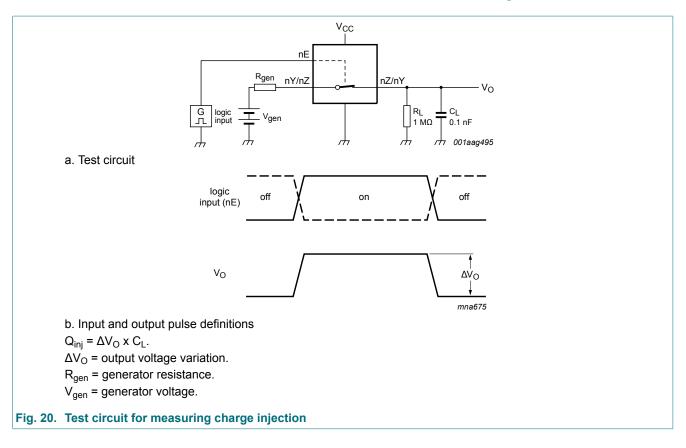


Fig. 18. Test circuit for measuring crosstalk voltage (between digital inputs and switch)



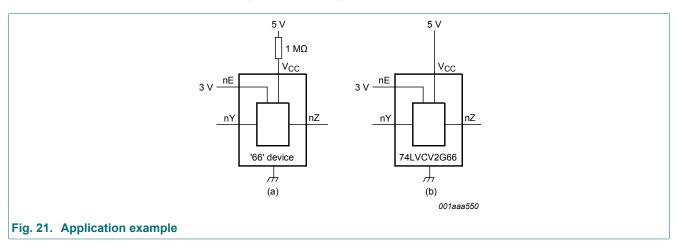
#### Overvoltage tolerant bilateral switch



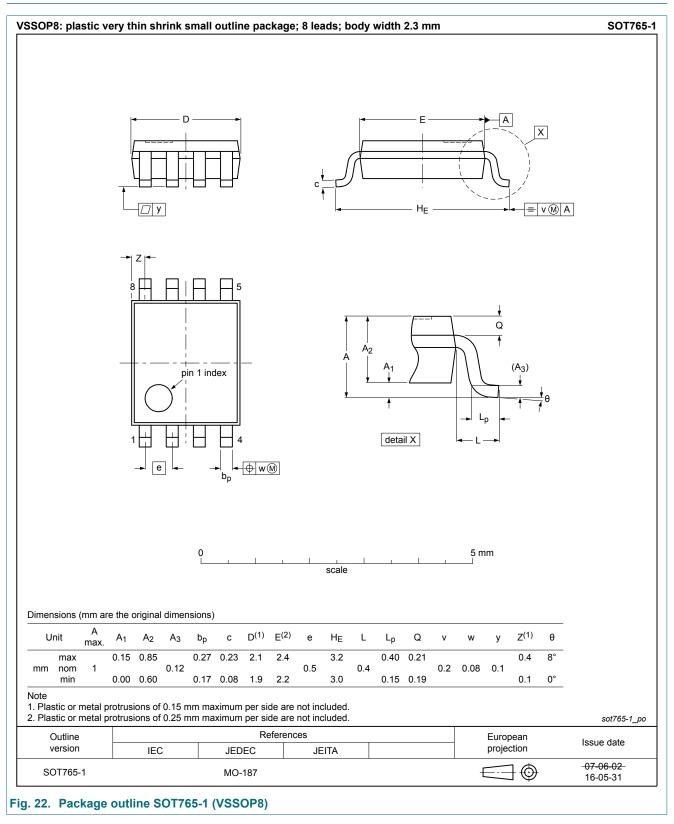
### **12.** Application information

The 74LVCV2G66 is used to reduce component count and footprint in low-power portable applications.

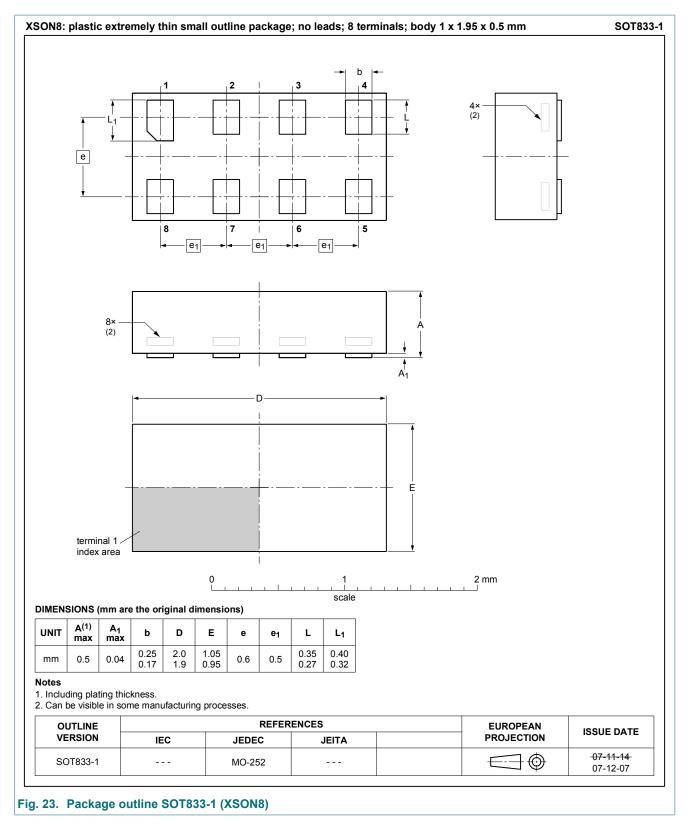
Typical '66' devices do not have low-power enable inputs causing a high  $\Delta I_{CC}$ . To reduce power consumption in portable (battery) applications, a current limiting resistor is used. (see Fig. 21a). The low-power enable inputs of the 74LVCV2G66 have much lower  $\Delta I_{CC}$ , eliminating the necessity of the current limiting resistor (see Fig. 21b).



### 13. Package outline



#### Overvoltage tolerant bilateral switch



#### Overvoltage tolerant bilateral switch

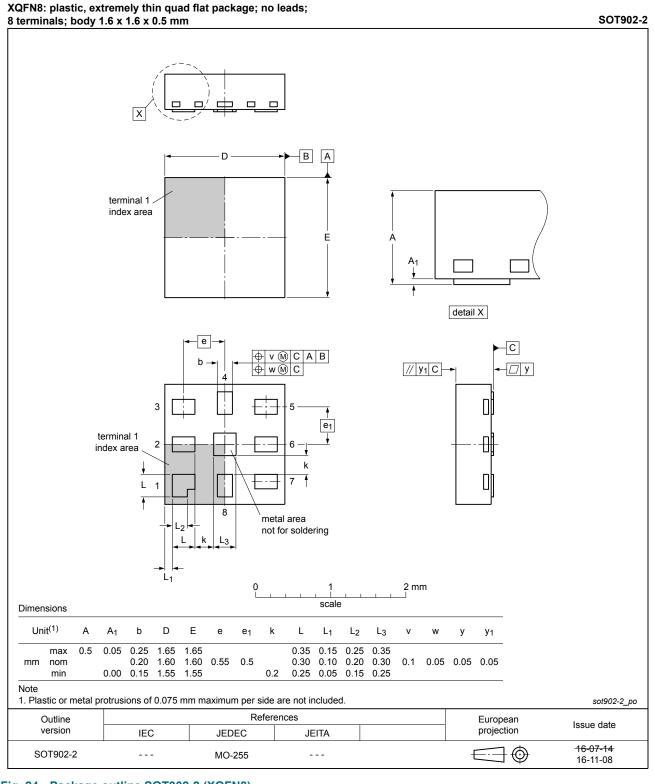


Fig. 24. Package outline SOT902-2 (XQFN8)

### 14. Abbreviations

Table 13. Abbreviations			
Acronym	Description		
CMOS	Complementary Metal-Oxide Semiconductor		
DUT	Device Under Test		

### 15. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVCV2G66 v.8	20181105	Product data sheet	-	74LVCV2G66 v.7	
Modifications:	Nexperia. <ul> <li>Legal texts h</li> </ul>	f this data sheet has been in have been adapted to the ne rs 74LVCV2G66GD (SOT9	ew company name where		
74LVCV2G66 v.7	20161215	Product data sheet	-	74LVCV2G66 v.6	
Modifications:	<ul> <li><u>Table 7</u>: The maximum limits for leakage current and supply current have changed.</li> <li>•Type number 74LVCV2G66DP (SOT505-2) removed.</li> </ul>				
74LVCV2G66 v.6	20150722	Product data sheet	-	74LVCV2G66 v.5	
Modifications:	Added type i	numbers 74LVCV2G66GT a	and.74LVCV2G66GM	·	
74LVCV2G66 v.5	20130329	Product data sheet	-	74LVCV2G66 v.4	
Modifications:	For type number 74LVCV2G66GD XSON8U has changed to XSON8.				
74LVCV2G66 v.4	20111122	Product data sheet	-	74LVCV2G66 v.3	
Modifications:	Legal pages updated.				
74LVCV2G66 v.3	20100616	Product data sheet	-	74LVCV2G66 v.2	
74LVCV2G66 v.2	20080703	Product data sheet	-	74LVCV2G66 v.1	
74LVCV2G66 v.1	20040402	Product data sheet	-	-	

### 16. Legal information

#### **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.

 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 <u>https://www.nexperia.com</u>.

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