

Product data sheet

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_{CC} . 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_{CC}. These inputs are also overvoltage tolerant.

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 Ω (typical) at $V_{CC} = 2.7 \text{ V}$
 - 7.5 Ω (typical) at $V_{CC} = 3.3 \text{ V}$
 - 7.3 Ω (typical) at V_{CC} = 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_{CC}
- 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					
74LVCV2G66DP	–40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2					
74LVCV2G66DC	–40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1					
74LVCV2G66GD	–40 °C to +125 °C	XSON8U	plastic extremely thin small outline package; no leads; 8 terminals; UTLP based; body $3\times2\times0.5$ mm	SOT996-2					

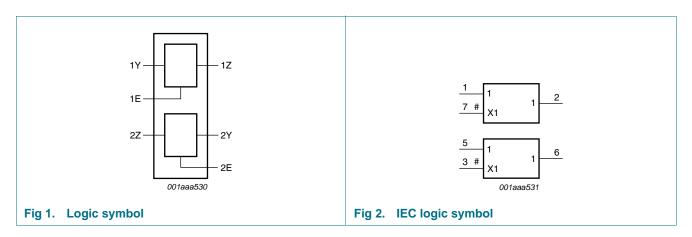
4. Marking

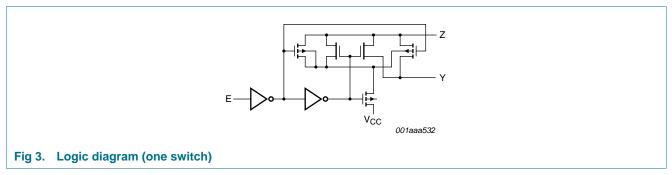
Table 2. Marking codes

Type number	Marking code ^[1]
74LVCV2G66DP	Y66
74LVCV2G66DC	Y66
74LVCV2G66GD	Y66

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

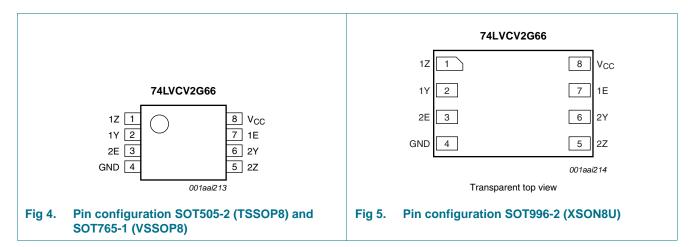
5. Functional diagram





6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
1Y, 2Y	2, 6	independent input or output
1Z, 2Z	1, 5	independent input or output (overvoltage tolerance)
GND	4	ground (0 V)
1E, 2E	7, 3	enable input (active HIGH)
V_{CC}	8	supply voltage

7. Functional description

Table 4: Function table[1]

Input nE	Switch
L	OFF-state
Н	ON-state ON-state

^[1] H = HIGH voltage level; L = LOW voltage level.

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_{CC}	supply voltage		-0.5	+6.5	V
V_{I}	input voltage		[<u>1</u>] -0.5	+6.5	V
I _{IK}	input clamping current	$V_I < -0.5 \text{ V or } V_I > 6.5 \text{ V}$	-50	-	mA
I _{SK}	switch clamping current	$V_I < -0.5 \text{ V or } V_I > 6.5 \text{ V}$	-	±50	mA
V_{SW}	switch voltage	enable and disable mode	-0.5	+6.5	V
I _{SW}	switch current	$V_{SW} > -0.5 \; V$ or $V_{SW} < 6.5 \; V$	-	±50	mA
I _{CC}	supply current		-	100	mA
I_{GND}	ground current		-100	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[2] _	250	mW

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

9. Recommended operating conditions

Table 6: Recommended operating conditions

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

^[2] For TSSOP8 package: above 55 °C the value of P_{tot} derates linearly with 2.5 mW/K. For VSSOP8 package: above 110 °C the value of P_{tot} derates linearly with 8 mW/K. For XSON8U package: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

^[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).

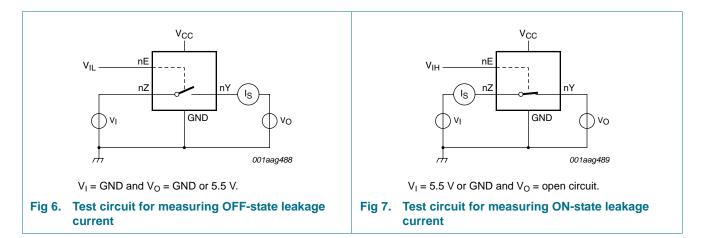
Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	Unit	
				Min	Typ[1]	Max	Min	Max	
V_{IH}	HIGH-level	V _{CC} = 2.3 V to 2.7 V		0.6V _{CC}	-	-	0.6V _{CC}	-	V
	input voltage	V _{CC} = 3.0 V to 3.6 V		2.0	-	-	2.0	-	V
		V _{CC} = 4.5 V to 5.5 V		0.55V _{CC}	-	-	0.55V _{CC}	-	V
V_{IL}		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	-	0.1V _{CC}	-	0.1V _{CC}	V
	input voltage	V _{CC} = 3.0 V to 3.6 V		-	-	0.5	-	0.5	V
		V _{CC} = 4.5 V to 5.5 V		-	-	0.15V _{CC}	-	0.15V _{CC}	V
I _I	input leakage current	pin nE; $V_1 = 5.5 \text{ V or GND}$; $V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	[2]	-	±0.1	±5	-	±5	μА
I _{S(OFF)}	OFF-state leakage current	V _{CC} = 2.3 V to 5.5 V; see <u>Figure 6</u>	[2][3]	-	±0.1	±10	-	±10	μΑ
I _{S(ON)}	ON-state leakage current	$V_{CC} = 2.3 \text{ V to } 5.5 \text{ V; see } \frac{\text{Figure } 7}{\text{Figure } 7}$	[2][3]	-	±0.1	±10	-	±10	μΑ
I _{CC}	supply current	V_I = 5.5 V or GND; V_{SW} = GND or V_{CC} ; V_{CC} = 2.3 V to 5.5 V	[2]	-	0.1	10	-	40	μΑ
ΔI_{CC}	additional supply current	pin nE; $V_I = V_{CC} - 0.6 \text{ V}$; $V_{SW} = \text{GND or } V_{CC}$; $V_{CC} = 3.0 \text{ V to } 5.5 \text{ V}$	[2]	-	0.1	5	-	50	μΑ
Cı	input capacitance			-	2.5	-	-	-	pF
C _{S(OFF)}	OFF-state capacitance			-	8.0	-	-	-	pF
C _{S(ON)}	ON-state capacitance			-	16	-	-	-	pF

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

^[2] These typical values are measured at $V_{CC} = 3.3 \text{ V}$.

^[3] For overvoltage signals ($V_{SW} > V_{CC}$) the condition $V_Y < V_Z$ must be observed.

10.1 Test circuits



10.2 ON resistance

Table 8. Resistance R_{ON}

At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graphs see Figure 9 and Figure 10.

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C			-40 °C to +125 °C	
			Min	Typ[1]	Max	Min	Max	
R _{ON(peak)}	ON resistance (peak)	V_{SW} = GND to V_{CC} ; $V_I = V_{IH}$; see Figure 8						•
		I_{SW} = 8 mA; V_{CC} = 2.3 V to 2.7 V	-	13	30	-	30	Ω
		I_{SW} = 12 mA; V_{CC} = 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 _{ON(rail)}	ON resistance (rail)	$V_{SW} = GND; V_I = V_{IH}; see Figure 8$						
		I_{SW} = 8 mA; V_{CC} = 2.3 V to 2.7 V	-	8.5	20	-	20	Ω
		$I_{SW} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	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
		$I_{SW} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	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 _{ON(flat)}	ON resistance	$V_{SW} = GND$ to V_{CC} ; $V_I = V_{IH}$	[2]					
	(flatness)	$I_{SW} = 8 \text{ mA}; V_{CC} = 2.5 \text{ V}$	-	17	-	-	-	Ω
		$I_{SW} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	10	-	-	-	Ω
		$I_{SW} = 24 \text{ mA}; V_{CC} = 3.3 \text{ V}$	-	5	-	-	-	Ω
		$I_{SW} = 32 \text{ mA}; V_{CC} = 5.0 \text{ V}$	-	3	-	-	-	Ω

^[1] All typical values are measured at T_{amb} = 25 °C and nominal V_{CC} .

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

10.3 ON resistance test circuit and graphs

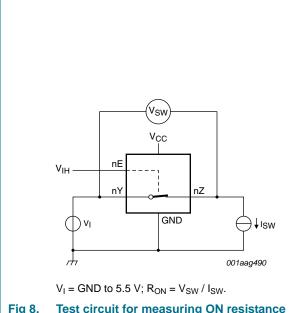


Fig 8. Test circuit for measuring ON resistance

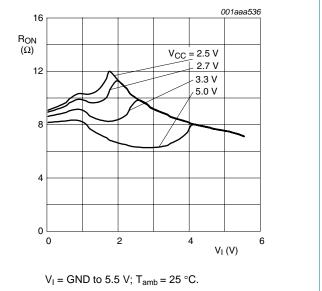
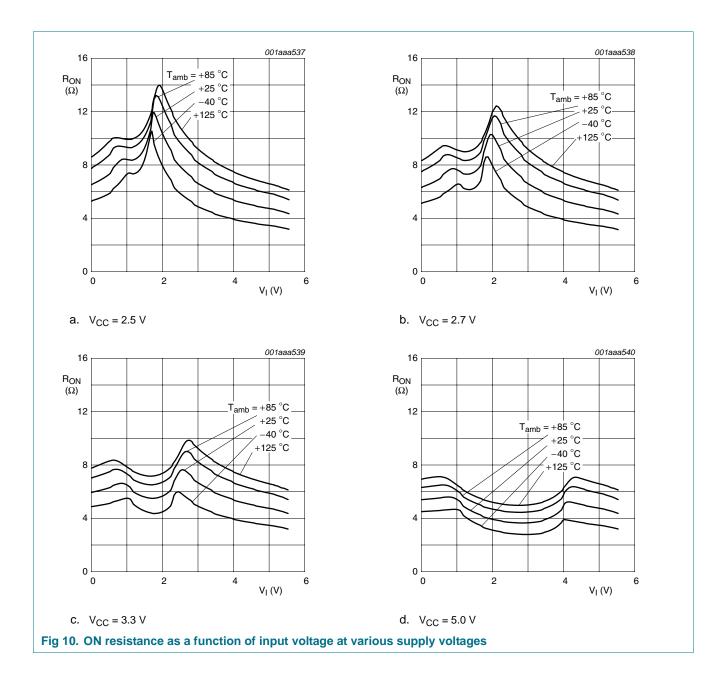


Fig 9. Typical ON resistance as a function of input voltage



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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 Figure 13.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
				Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation delay	nY to nZ or nZ to nY; see Figure 11	[2][3]		'				'
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	0.4	1.2	-	2.0	ns
		$V_{CC} = 2.7 \text{ V}$		-	0.4	1.0	-	1.5	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	0.3	0.8	-	1.5	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		-	0.2	0.6	-	1.0	ns
t _{en}	enable time	nE to nY or nZ; see Figure 12	<u>[4]</u>						
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	4.7	12	1.0	15	ns
		$V_{CC} = 2.7 \text{ V}$		1.0	4.4	8.5	1.0	11	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	3.8	7.5	1.0	9.5	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		1.0	2.7	5.0	1.0	6.5	ns
dis	disable time	nE to nY or nZ; see Figure 12	[5]						
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	6.0	16	1.0	20	ns
		$V_{CC} = 2.7 \text{ V}$		1.0	7.9	15	1.0	19	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	6.5	13.5	1.0	17	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		1.0	4.4	9.0	1.0	11.5	ns
C_{PD}	power dissipation capacitance	$C_L = 50 \text{ pF}; f_i = 10 \text{ MHz}; V_I = \text{GND to } 5.5 \text{ V}$	[6]						
		V _{CC} = 2.5 V		-	9.7	-	-	-	pF
		$V_{CC} = 3.3 \text{ V}$		-	10.3	-	-	-	pF
		V _{CC} = 5.0 V		-	11.3	-	-	-	pF

^[1] Typical values are measured at T_{amb} = 25 °C and nominal V_{CC} .

 $P_D = C_{PD} \times V_{CC}{}^2 \times f_i \times N + \Sigma \{(C_L + C_{S(ON)}) \times V_{CC}{}^2 \times f_o\} \text{ where: }$

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

C_{S(ON)} = maximum ON-state switch capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\Sigma \{(C_L + C_{S(ON)}) \times V_{CC}^2 \times f_o\} = \text{sum of the outputs.}$

^[2] t_{pd} is the same as t_{PLH} and t_{PHL} .

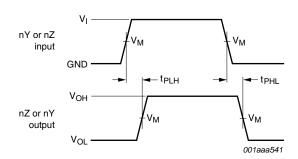
^[3] Propagation delay is the calculated RC time constant of the typical ON resistance of the switch and the specified capacitance when driven by an ideal voltage source (zero output impedance).

^[4] t_{en} is the same as t_{PZH} and t_{PZL} .

^[5] t_{dis} is the same as t_{PLZ} and t_{PHZ} .

^[6] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

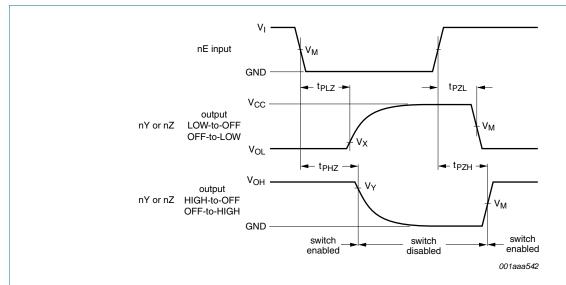
11.1 Waveforms and test circuit



Measurement points are given in Table 10.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig 11. Input (nY or nZ) to output (nZ or nY) propagation delays



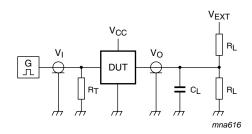
Measurement points are given in Table 10.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig 12. Enable and disable times

Table 10. Measurement points

Supply voltage	Input	Output				
V _{CC}	V _M	V _M	V _X	V _Y		
2.3 V to 2.7 V	0.5V _{CC}	0.5V _{CC}	$V_{OL} + 0.1V_{CC}$	$V_{OH} - 0.1V_{CC}$		
2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} – 0.3 V		
3.0 V to 3.6 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} – 0.3 V		
4.5 V to 5.5 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	$V_{OH} - 0.3 V$		



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_L = Load capacitance including jig and probe capacitance.

R_L = Load resistance.

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

Fig 13. Load circuit for measuring switching times

Table 11. Test data

Supply voltage	Input	Load			V _{EXT}			
V _{CC}	VI	t _r , t _f	CL	R_L	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL,} t _{PLZ}	
2.3 V to 2.7 V	V_{CC}	\leq 2.0 ns	30 pF	500Ω	open	GND	2V _{CC}	
2.7 V	2.7 V	\leq 2.5 ns	50 pF	500Ω	open	GND	6.0 V	
3.0 V to 3.6 V	2.7 V	\leq 2.5 ns	50 pF	500 Ω	open	GND	6.0 V	
4.5 V to 5.5 V	V_{CC}	\leq 2.5 ns	50 pF	500Ω	open	GND	2V _{CC}	

11.2 Additional dynamic characteristics

Table 12. Additional dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); T_{amb} = 25 °C.

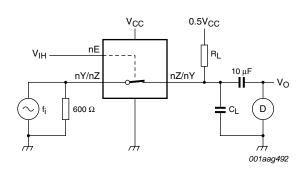
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD total harmonic distortio		f_i = 1 kHz; R_L = 10 k Ω ; C_L = 50 pF; see Figure 14				
		V _{CC} = 2.3 V	-	0.42	-	%
		V _{CC} = 3.0 V	-	0.36	-	%
		V _{CC} = 4.5 V	-	0.47	-	%
		f_i = 10 kHz; R_L = 10 k Ω ; C_L = 50 pF; see Figure 14				
		V _{CC} = 2.3 V	-	0.11	-	%
		V _{CC} = 3.0 V	-	0.07	-	%
		V _{CC} = 4.5 V	-	0.01	-	%

Table 12. Additional dynamic characteristics ...continued

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); T_{amb} = 25 ℃.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
f _(-3dB)	-3 dB frequency response	$R_L = 600 \Omega$; $C_L = 50 pF$; see Figure 15				
		$V_{CC} = 2.3 \text{ V}$	-	160	-	MHz
		$V_{CC} = 3.0 \text{ V}$	-	200	-	MHz
		$V_{CC} = 4.5 \text{ V}$	-	210	-	MHz
		$R_L = 50 \Omega$; $C_L = 5 pF$; see <u>Figure 15</u>				
		$V_{CC} = 2.3 \text{ V}$	-	180	-	MHz
		$V_{CC} = 3.0 \text{ V}$	-	180	-	MHz
		$V_{CC} = 4.5 \text{ V}$	-	180	-	MHz
$lpha_{iso}$	isolation (OFF-state)	R_L = 600 Ω ; C_L = 50 pF; f_i = 1 MHz; see <u>Figure 16</u>				
		V _{CC} = 2.3 V	-	-65	-	dB
		V _{CC} = 3.0 V	-	-65	-	dB
		V _{CC} = 4.5 V	-	-62	-	dB
		$R_L = 50 \Omega$; $C_L = 5 pF$; $f_i = 1 MHz$; see Figure 16				
		V _{CC} = 2.3 V	-	-37	-	dB
		V _{CC} = 3.0 V	-	-36	-	dB
		V _{CC} = 4.5 V	-	-36	-	dB
V _{ct} crosstalk voltage	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 Figure 17				
		V _{CC} = 2.3 V	-	91	-	mV
		V _{CC} = 3.0 V	-	119	-	mV
		V _{CC} = 4.5 V	-	205	-	mV
Xtalk	crosstalk	between switches; $R_L = 600 \Omega$; $C_L = 50 pF$; $f_i = 1 MHz$; see Figure 18				
		V _{CC} = 2.3 V	-	-56	-	dB
		V _{CC} = 3.0 V	-	-55	-	dB
		$V_{CC} = 4.5 V$	-	-55	-	dB
		between switches; $R_L = 50 \Omega$; $C_L = 5 \text{ pF}$; $f_i = 1 \text{ MHz}$; see Figure 18				
		$V_{CC} = 2.3 \text{ V}$	-	-29	-	dB
		V _{CC} = 3.0 V	-	-28	-	dB
		V _{CC} = 4.5 V	-	-28	-	dB
Q _{inj}	charge injection	C_L = 0.1 nF; V_{gen} = 0 V; R_{gen} = 0 Ω ; f_i = 1 MHz; R_L = 1 M Ω ; see <u>Figure 19</u>				
		V _{CC} = 2.5 V	-	< 0.003	-	рC
		V _{CC} = 3.3 V	-	0.003	-	рС
		V _{CC} = 4.5 V	-	0.0035	-	рС
		V _{CC} = 5.5 V	-	0.0035	-	рС

11.3 Test circuits



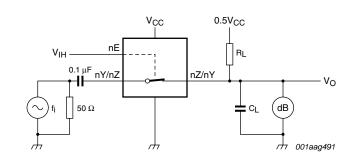
Test conditions:

 $V_{CC} = 2.3 \text{ V: } V_i = 2 \text{ V (p-p)}.$

 $V_{CC} = 3 \text{ V: } V_i = 2.5 \text{ V (p-p)}.$

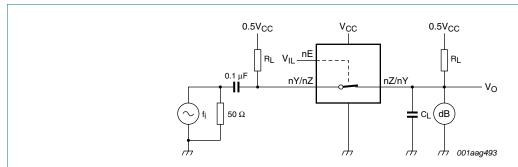
 $V_{CC} = 4.5 \text{ V}$: $V_i = 4 \text{ V (p-p)}$.

Fig 14. 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 15. Test circuit for measuring the frequency response when switch is in ON-state



Adjust fi voltage to obtain 0 dBm level at input.

Fig 16. Test circuit for measuring isolation (OFF-state)

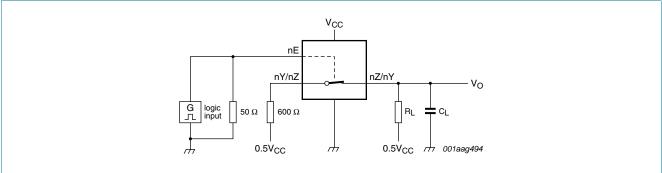
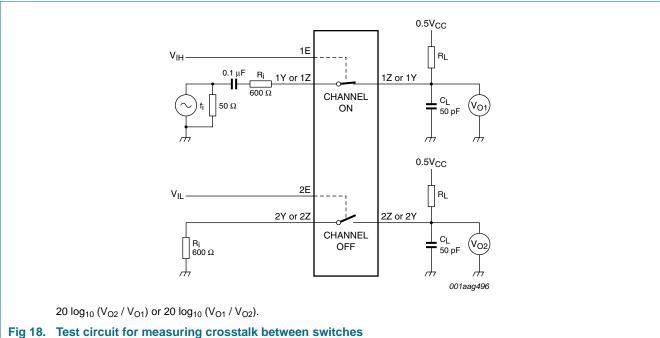
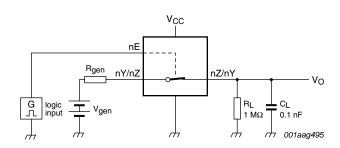
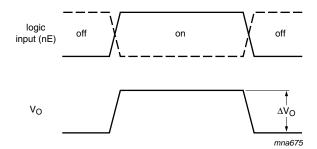


Fig 17. Test circuit for measuring crosstalk voltage (between digital inputs and switch)





a. Test circuit



b. Input and output pulse definitions

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

 ΔV_{O} = output voltage variation.

 R_{gen} = generator resistance.

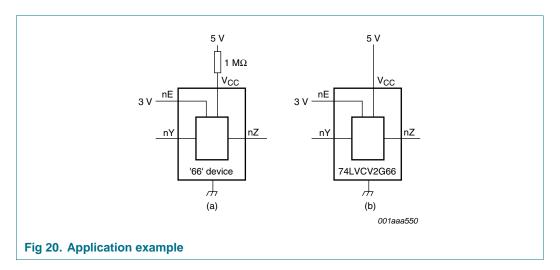
 V_{gen} = generator voltage.

Fig 19. Test circuit for measuring charge injection

12. Application information

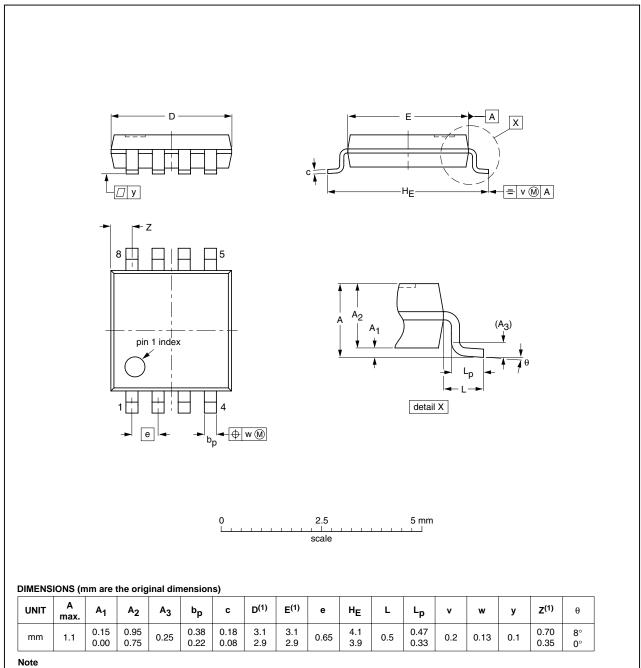
Use the 74LVCV2G66 to reduce component count and footprint in low-power portable applications.

Typical '66' devices do not have low-power enable inputs causing a high ΔI_{CC} . To reduce power consumption in portable (battery) applications, a current limiting resistor is used. (see <u>Figure 20</u>a). The low-power enable inputs of the 74LVCV2G66 have much lower ΔI_{CC} , eliminating the necessity of the current limiting resistor (see <u>Figure 20</u>b).



13. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2



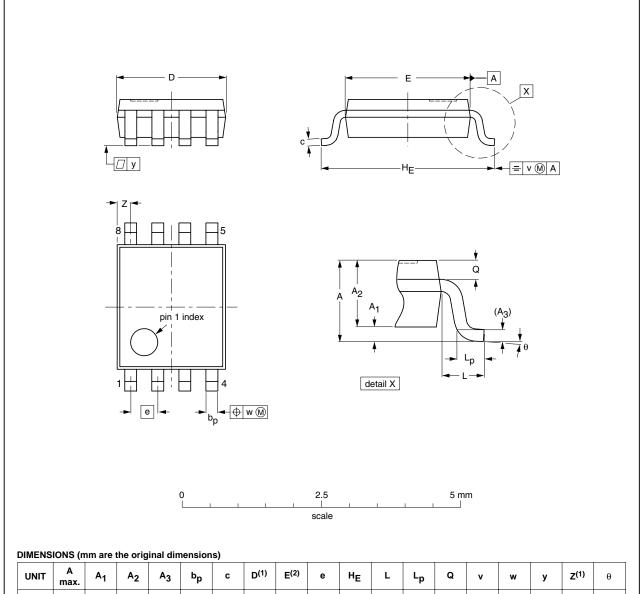
1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT505-2						02-01-16

Fig 21. Package outline SOT505-2 (TSSOP8)

VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1



UNIT	A max.	A ₁	A ₂	А3	bp	С	D ⁽¹⁾	E ⁽²⁾	е	HE	L	Lp	Q	٧	w	у	Z ⁽¹⁾	θ
mm	1	0.15 0.00	0.85 0.60	0.12	0.27 0.17	0.23 0.08	2.1 1.9	2.4 2.2	0.5	3.2 3.0	0.4	0.40 0.15	0.21 0.19	0.2	0.13	0.1	0.4 0.1	8° 0°

Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT765-1		MO-187				02-06-07

Fig 22. Package outline SOT765-1 (VSSOP8)

74LVCV2G66

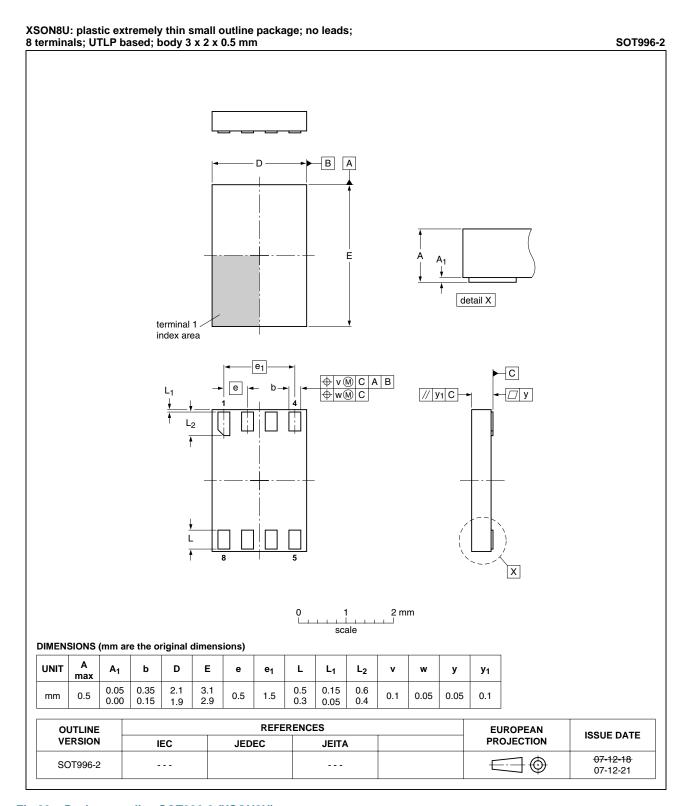


Fig 23. Package outline SOT996-2 (XSON8U)

14. Abbreviations

Table 13. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test

15. Revision history

Table 14: Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVCV2G66 v.3	20100616	Product data sheet	-	74LVCV2G66_2
Modifications:	 Conditions 	for I_{CC} and ΔI_{CC} corrected.		
74LVCV2G66_2	20080703	Product data sheet	-	74LVCV2G66_1
Modifications:		t of this data sheet has been miconductors.	redesigned to comply w	ith the new identity guidelines
	 Legal texts 	s have been adapted to the r	new company name who	ere appropriate.
	 Added typ 	e number 74LVCV2G66GD ((XSON8U package).	
74LVCV2G66_1	20040402	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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