

1. General description

The 74LVC1G66 is a single-pole, single-throw analog switch with two input/output terminals (nY and nZ) and a digital enable input (nE). When nE is LOW, the analog switch is turned off. Control inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at control inputs makes the circuit tolerant of slower input rise and fall times.

2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- Very low ON resistance:
 - 7.5 Ω (typical) at V_{CC} = 2.7 V
 - 6.5 Ω (typical) at V_{CC} = 3.3 V
 - 6 Ω (typical) at V_{CC} = 5 V
- Switch current capability of 32 mA
- High noise immunity
- CMOS low power consumption
- TTL interface compatibility at 3.3 V
- Overvoltage tolerant control inputs to 5.5 V
- Latch-up performance meets requirements of JESD78 Class I
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Ordering information

Table	1.	Order	ing i	information
			I	

Type number	Package			
	Temperature range	Name	Description	Version
74LVC1G66GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	<u>SOT353-1</u>
74LVC1G66GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	<u>SOT753</u>
74LVC1G66GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	<u>SOT886</u>
74LVC1G66GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	<u>SOT1115</u>
74LVC1G66GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	<u>SOT1202</u>
74LVC1G66GZ	-40 °C to +125 °C	XSON5	plastic thermal enhanced extremely thin small outline package with side-wettable flanks (SWF); no leads; 5 terminals; body 1.1 × 0.85 × 0.5 mm	<u>SOT8065-1</u>

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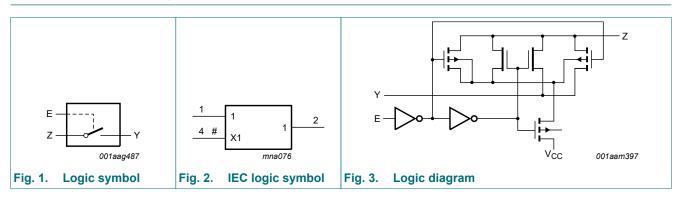
Bilateral switch

4. Marking

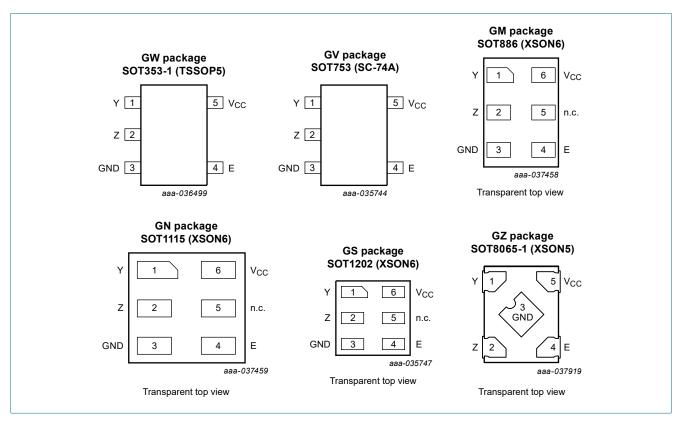
Type number	Marking code [1]
74LVC1G66GW	VL
74LVC1G66GV	V66
74LVC1G66GM	VL
74LVC1G66GN	VL
74LVC1G66GS	VL
74LVC1G66GZ	VL

[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		
	SOT353-1, SOT753, SOT8065-1	SOT886, SOT1115 and SOT1202		
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 _{CC}	5	6	supply voltage	

7. Functional description

Table 4. Function table

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

Input E	Switch
L	OFF-state
Н	ON-state

74LVC1G66

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
VI	input voltage		[1]	-0.5	+6.5	V
I _{IK}	input clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V		-50	-	mA
I _{SK}	switch clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V		-	±50	mA
V _{SW}	switch voltage	enable and disable mode	[2]	-0.5	V _{CC} + 0.5	V
I _{SW}	switch current	V_{SW} > -0.5 V or V_{SW} < V_{CC} + 0.5 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 ° 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.

[3] For SOT353-1 (TSSOP5) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

For SOT753 (SC-74A) package: P_{tot} derates linearly with 3.8 mW/K above 85 °C.

For SOT886 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package: P_{tot} derates linearly with 3.2 mW/K above 71 $^\circ\text{C}.$

For SOT1202 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 $^\circ\text{C}.$

For SOT8065-1 (XSON5) package: Ptot derates linearly with 3.2 mW/K above 72 °C.

9. Recommended operating conditions

Table 6. Recommended operating conditions

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Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
V _{CC}	supply voltage		1.65	-	5.5	V
VI	input voltage		0	-	5.5	V
V _{SW}	switch voltage	[1]	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	-	+125	°C
	input transition rise and	V _{CC} = 1.65 V to 2.7 V [2]	-	-	20	ns/V
	fall rate	V _{CC} = 2.7 V to 5.5 V [2]	-	-	10	ns/V

[1] To avoid sinking GND current from 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.

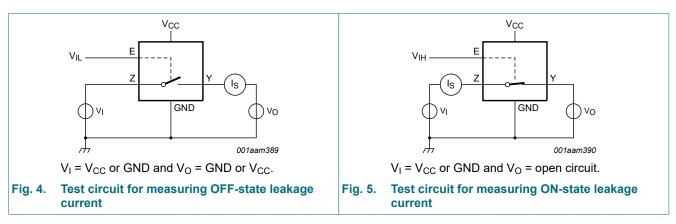
10. Static characteristics

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	• +125 °C	Unit
			Min	Тур [1]	Max	Max Min Max			
VIH	HIGH-level input	V _{CC} = 1.65 V to 1.95 V		$0.65V_{CC}$	-	-	$0.65V_{CC}$	-	V
	voltage	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} = 4.5 V to 5.5 V		$0.7V_{CC}$	-	-	0.7V _{CC}	-	V
V _{IL}	LOW-level input	V _{CC} = 1.65 V to 1.95 V		-	-	$0.35V_{CC}$	-	$0.35V_{CC}$	V
	voltage	V _{CC} = 2.3 V to 2.7 V		-	-	0.7	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V		-	-	0.8	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V		-	-	0.3V _{CC}	-	0.3V _{CC}	V
I	input leakage current	pin E; V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	[2]	-	±0.1	±1	-	±1	μA
I _{S(OFF)}	OFF-state leakage current	V _{CC} = 5.5 V; see <u>Fig. 4</u>	[2]	-	±0.1	±0.2	-	±0.5	μA
I _{S(ON)}	ON-state leakage current	V _{CC} = 5.5 V; see <u>Fig. 5</u>	[2]	-	±0.1	±1	-	±2	μA
I _{CC}	supply current	$V_{I} = 5.5 V \text{ or GND};$ $V_{SW} = GND \text{ or } V_{CC};$ $V_{CC} = 1.65 V \text{ to } 5.5 V$	[2]	-	0.1	4	-	4	μA
ΔI _{CC}	additional supply current	pin E; V _I = V _{CC} - 0.6 V; V _{SW} = GND or V _{CC} ; V _{CC} = 5.5 V	[2]	-	5	500	-	500	μA
Cı	input capacitance			-	2.0	-	-	-	pF
C _{S(OFF)}	OFF-state capacitance			-	6.5	-	-	-	pF
C _{S(ON)}	ON-state capacitance			-	11	-	-	-	pF

10.1. Test circuits



10.2. ON resistance

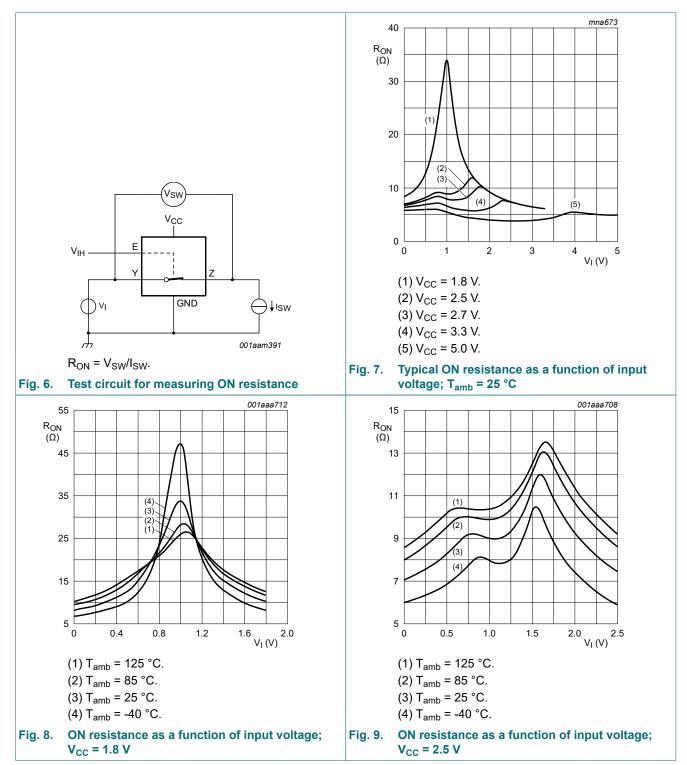
Table 8. ON resistance

At recommended operating conditions; voltages are referenced to GND (ground 0 V); for test circuit see Fig. 6; for graphs see Fig. 7 to Fig. 12.

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	o +125 °C	Unit
			Min	Typ [1]	Max	Min	Max	1
R _{ON(peak)}	ON resistance	$V_I = GND$ to V_{CC}						
	(peak)	I_{SW} = 4 mA; V_{CC} = 1.65 V to 1.95 V	-	34.0	130	-	195	Ω
		I_{SW} = 8 mA; V_{CC} = 2.3 V to 2.7 V	-	12.0	30	-	45	Ω
		I _{SW} = 12 mA; V _{CC} = 2.7 V	-	10.4	25	-	38	Ω
		I_{SW} = 24 mA; V_{CC} = 3.0 V to 3.6 V	-	7.8	20	-	30	Ω
		I_{SW} = 32 mA; V_{CC} = 4.5 V to 5.5 V	-	6.2	15	-	23	Ω
R _{ON(rail)}	ON resistance	V _I = GND						
	(rail)	I_{SW} = 4 mA; V_{CC} = 1.65 V to 1.95 V	-	8.2	18	-	27	Ω
		I_{SW} = 8 mA; V_{CC} = 2.3 V to 2.7 V	-	7.1	16	-	24	Ω
		I _{SW} = 12 mA; V _{CC} = 2.7 V	-	6.9	14	-	21	Ω
		I_{SW} = 24 mA; V_{CC} = 3.0 V to 3.6 V	-	6.5	12	-	18	Ω
		I_{SW} = 32 mA; V_{CC} = 4.5 V to 5.5 V	-	5.8	10	-	15	Ω
		V _I = V _{CC}						
		I_{SW} = 4 mA; V_{CC} = 1.65 V to 1.95 V	-	10.4	30	-	45	Ω
		I_{SW} = 8 mA; V_{CC} = 2.3 V to 2.7 V	-	7.6	20	-	30	Ω
		I _{SW} = 12 mA; V _{CC} = 2.7 V	-	7.0	18	-	27	Ω
		I_{SW} = 24 mA; V_{CC} = 3.0 V to 3.6 V	-	6.1	15	-	23	Ω
		I_{SW} = 32 mA; V_{CC} = 4.5 V to 5.5 V	-	4.9	10	-	15	Ω
R _{ON(flat)}	ON resistance	$V_{I} = GND \text{ to } V_{CC}$ [2	2]					
	(flatness)	I_{SW} = 4 mA; V_{CC} = 1.65 V to 1.95 V	-	26.0	-	-	-	Ω
		I_{SW} = 8 mA; V_{CC} = 2.3 V to 2.7 V	-	5.0	-	-	-	Ω
		I_{SW} = 12 mA; V_{CC} = 2.7 V	-	3.5	-	-	-	Ω
		I_{SW} = 24 mA; V_{CC} = 3.0 V to 3.6 V	-	2.0	-	-	-	Ω
		I_{SW} = 32 mA; V_{CC} = 4.5 V to 5.5 V	-	1.5	-	-	-	Ω

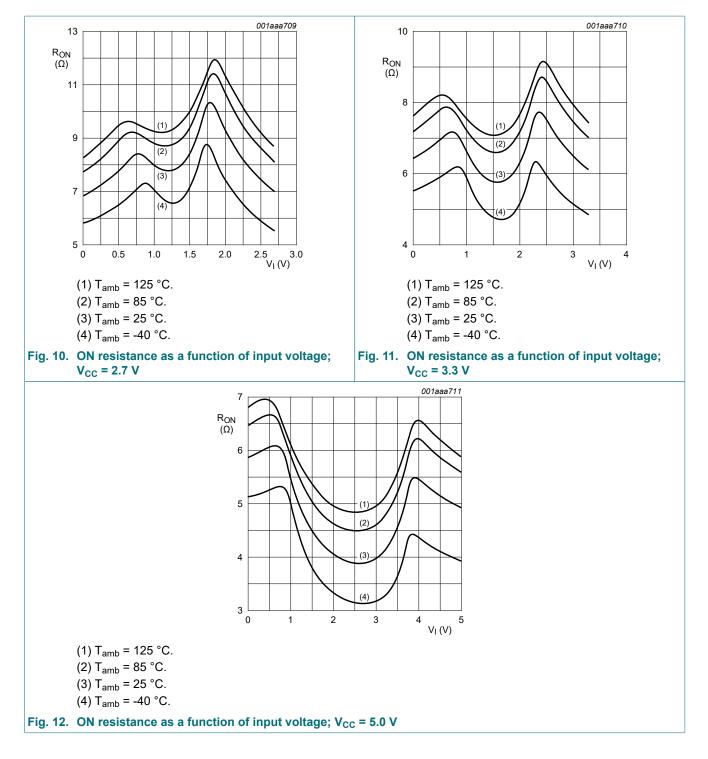
[1] Typical values are measured at T_{amb} = 25 °C and nominal V_{CC} . [2] Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V_{CC} and temperature.

Bilateral switch



10.3. ON resistance test circuit and graphs

Bilateral switch



11. Dynamic characteristics

Table 9. Dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 15.

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	o +125 °C	Unit
			Min	Typ [1]	Мах	Min	Max	1
t _{pd}	propagation delay	Y to Z or Z to Y; see <u>Fig. 13</u> [2] [3]						
		V _{CC} = 1.65 V to 1.95 V	-	0.8	2.0	-	3.0	ns
		V _{CC} = 2.3 V to 2.7 V	-	0.4	1.2	-	2.0	ns
		V _{CC} = 2.7 V	-	0.4	1.0	-	1.5	ns
		V _{CC} = 3.0 V to 3.6 V	-	0.3	0.8	-	1.5	ns
		V _{CC} = 4.5 V to 5.5 V	-	0.2	0.6	-	1.0	ns
t _{en}	enable time	E to Y or Z; see <u>Fig. 14</u> [4]						
		V _{CC} = 1.65 V to 1.95 V	1.0	5.3	12	1.0	15.5	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	3.0	6.5	1.0	8.5	ns
		V _{CC} = 2.7 V	1.0	2.6	6.0	1.0	8.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.5	5.0	1.0	6.5	ns
		V _{CC} = 4.5 V to 5.5 V	1.0	1.9	4.2	1.0	5.5	ns
t _{dis}	disable time	E to Y or Z; see <u>Fig. 14</u> [5]						
		V _{CC} = 1.65 V to 1.95 V	1.0	4.2	10	1.0	13	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	2.4	6.9	1.0	9.0	ns
		V _{CC} = 2.7 V	1.0	3.6	7.5	1.0	9.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.4	6.5	1.0	8.5	ns
		V _{CC} = 4.5 V to 5.5 V	1.0	2.5	5.0	1.0	6.5	ns
C _{PD}	power dissipation capacitance	$\begin{array}{l} C_L = 50 \text{ pF; } f_i = 10 \text{ MHz;} \\ V_I = \text{GND to } V_{\text{CC}} \end{array} \tag{6}$						
		V _{CC} = 2.5 V	-	9.8	-	-	-	pF
		V _{CC} = 3.3 V	-	12.0	-	-	-	pF
		V _{CC} = 5.0 V	-	17.3	-	-	-	pF

Typical values are measured at T_{amb} = 25 $^\circ C$ and nominal $V_{CC}.$ [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).

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

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

 C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). [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_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

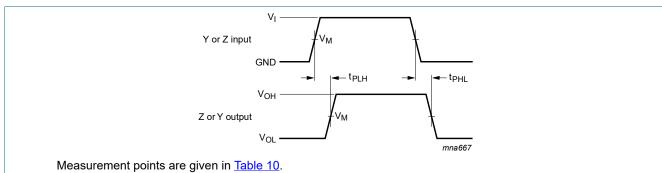
 $C_{S(ON)}$ = maximum ON-state switch capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 Σ {(C_L + C_{S(ON)}) × V_{CC}² × f_o} = sum of the outputs.

11.1. Waveforms and test circuit



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

Fig. 13. Input (Y or Z) to output (Z or Y) propagation delays

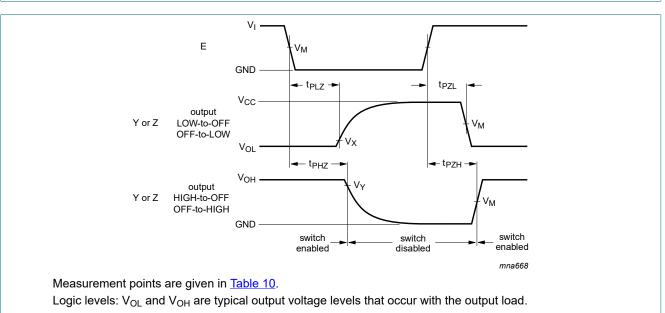
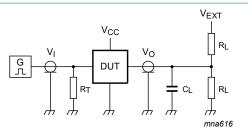


Fig. 14. Enable and disable times

Table 10. Measuremen	Table 10. Measurement points								
Supply voltage	Input	Output	Output						
V _{cc}	V _M	V _M	V _X	V _Y					
1.65 V to 1.95 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V					
2.3 V to 2.7 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V					
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					

Bilateral switch



Test data is given in Table 11.

Definitions for test circuit:

- R_T = Termination resistance should be equal to output impedance Z_o 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. 15. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	Input	Input		Load		V _{EXT}			
V _{cc}	VI	t _r , t _f	CL	RL	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}		
1.65 V to 1.95 V	V _{CC}	≤ 2.0 ns	30 pF	1 kΩ	open	GND	2V _{CC}		
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	open	GND	2V _{CC}		
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V		
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V		
4.5 V to 5.5 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V _{CC}		

11.2. Additional dynamic characteristics

Table 12. Additional dynamic characteristics

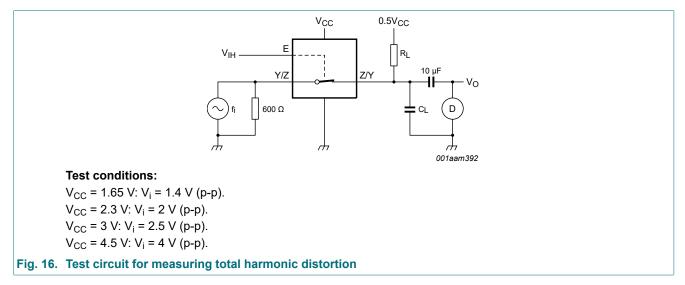
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); T_{amb} = 25 °C.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD	total harmonic distortion	$R_L = 10 \text{ k}\Omega; C_L = 50 \text{ pF}; f_i = 1 \text{ kHz}; \text{ see } \frac{\text{Fig. 16}}{1000}$				
		V _{CC} = 1.65 V	-	0.032	-	%
		V _{CC} = 2.3 V	-	0.008	-	%
		V _{CC} = 3.0 V	-	0.006	-	%
		V _{CC} = 4.5 V	-	0.001	-	%
		R_L = 10 kΩ; C_L = 50 pF; f_i = 10 kHz; see <u>Fig. 16</u>				
		V _{CC} = 1.65 V	-	0.068	-	%
		V _{CC} = 2.3 V	-	0.009	-	%
		V _{CC} = 3.0 V	-	0.008	-	%
		V _{CC} = 4.5 V	-	0.006	-	%

Bilateral switch

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
f _(-3dB)	-3 dB frequency response	R_L = 600 Ω; C_L = 50 pF; see <u>Fig. 17</u>				
		V _{CC} = 1.65 V	-	135	-	MHz
		V _{CC} = 2.3 V	-	145	-	MHz
		V _{CC} = 3.0 V	-	150	-	MHz
		V _{CC} = 4.5 V	-	155	-	MHz
		R_L = 50 Ω; C_L = 5 pF; see <u>Fig. 17</u>				
		V _{CC} = 1.65 V	-	> 500	-	MHz
		V _{CC} = 2.3 V	-	> 500	-	MHz
		V _{CC} = 3.0 V	-	> 500	-	MHz
		$V_{CC} = 4.5 V$	-	> 500	-	MHz
		R_L = 50 Ω; C_L = 10 pF; see <u>Fig. 17</u>				
		V _{CC} = 1.65 V	-	200	-	MHz
		V _{CC} = 2.3 V	-	350	-	MHz
		V _{CC} = 3.0 V	-	410	-	MHz
		$V_{CC} = 4.5 V$	-	440	-	MHz
α _{iso}	isolation (OFF-state)	R_L = 600 Ω; C_L = 50 pF; f_i = 1 MHz; see <u>Fig. 18</u>				
		V _{CC} = 1.65 V	-	-46	-	dB
		V _{CC} = 2.3 V	-	-46	-	dB
		V _{CC} = 3.0 V	-	-46	-	dB
		V _{CC} = 4.5 V	-	-46	-	dB
		R_L = 50 Ω; C_L = 5 pF; f_i = 1 MHz; see <u>Fig. 18</u>				
		V _{CC} = 1.65 V	-	-37	-	dB
		V _{CC} = 2.3 V	-	-37	-	dB
		V _{CC} = 3.0 V	-	-37	-	dB
		V _{CC} = 4.5 V	-	-37	-	dB
V _{ct}	crosstalk voltage	between digital input and switch; $R_L = 600 \Omega$; $C_L = 50 pF$; $f_i = 1 MHz$; $t_r = t_f = 2 ns$; see Fig. 19				
		V _{CC} = 1.65 V	-	69	-	mV
		V _{CC} = 2.3 V	-	87	-	mV
		V _{CC} = 3.0 V	-	156	-	mV
		$V_{CC} = 4.5 V$	-	302	-	mV
Q _{inj}	charge injection	$ \begin{array}{l} C_L = 0.1 \text{ nF}; \text{V}_{gen} = 0 \text{V}; \text{R}_{gen} = 0 \Omega; \text{f}_i = 1 \text{MHz}; \\ \text{R}_L = 1 \text{M}\Omega; \text{ see } \underline{\text{Fig. } 20} \end{array} $				
		V _{CC} = 1.8 V	-	3.3	-	рС
		V _{CC} = 2.5 V	-	4.1	-	рС
		V _{CC} = 3.3 V	-	5.0	-	рС
		V _{CC} = 4.5 V	-	6.4	-	рС
		V _{CC} = 5.5 V	-	7.5	-	рС

11.3. Test circuits



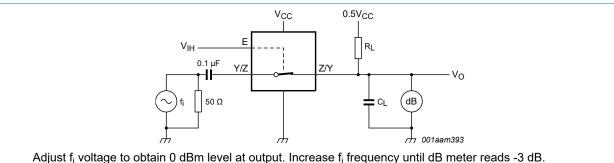
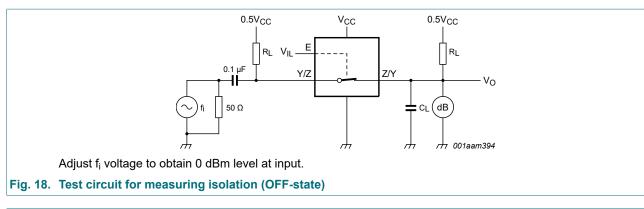
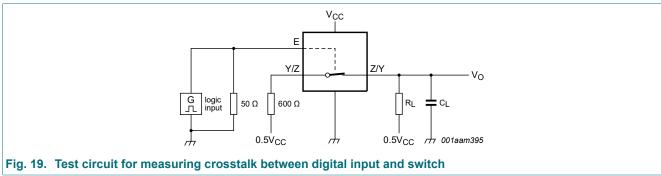
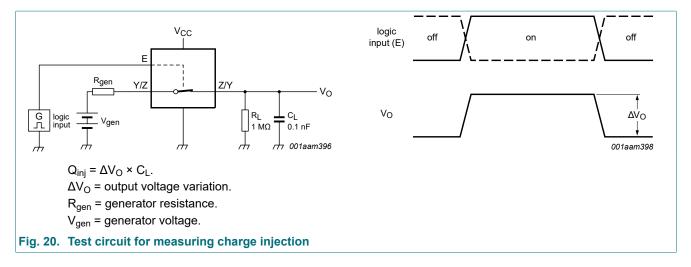


Fig. 17. Test circuit for measuring the frequency response when switch is in ON-state





Bilateral switch



12. Package outline

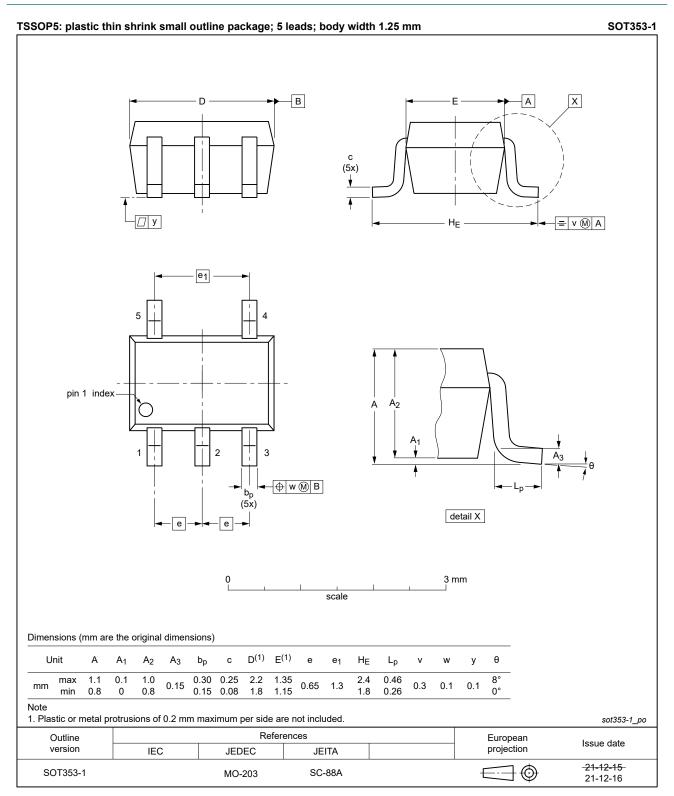


Fig. 21. Package outline SOT353-1 (TSSOP5)

74LVC1G66

Bilateral switch



SOT753

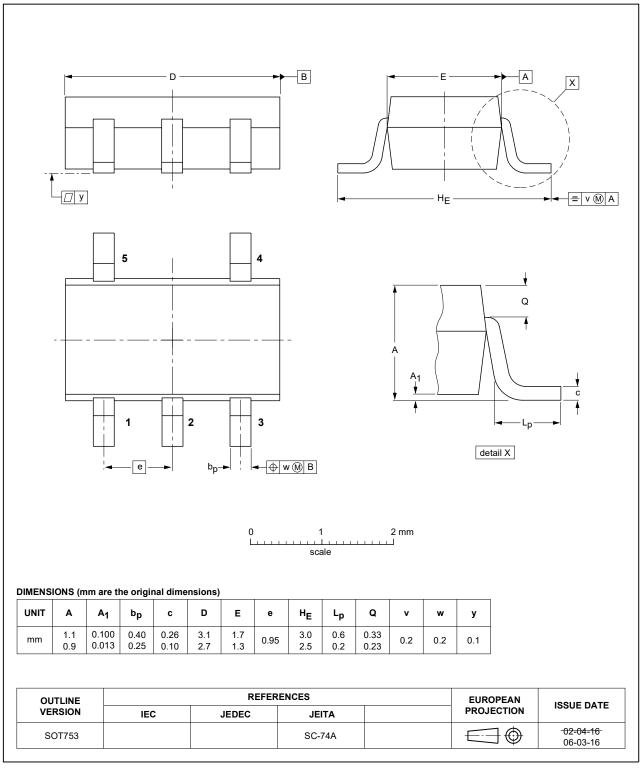


Fig. 22. Package outline SOT753 (SC-74A)

Bilateral switch

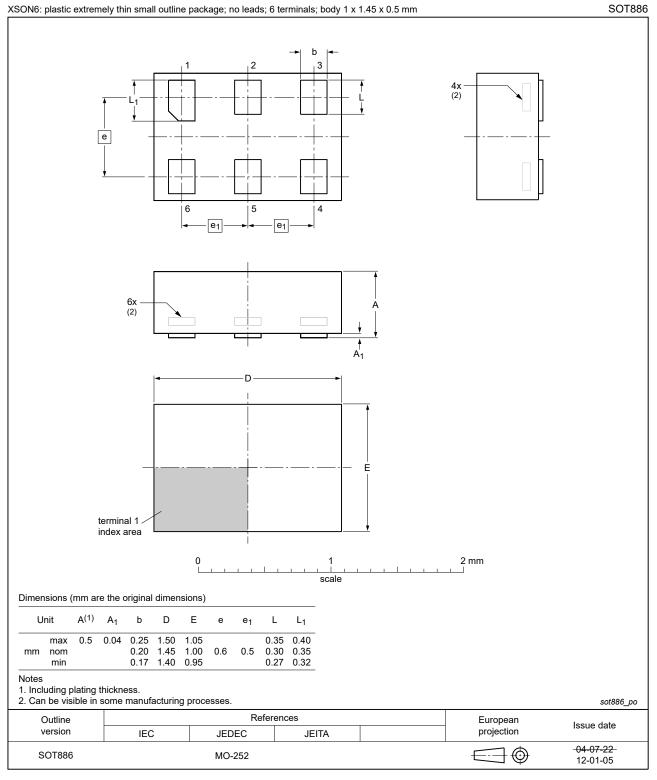
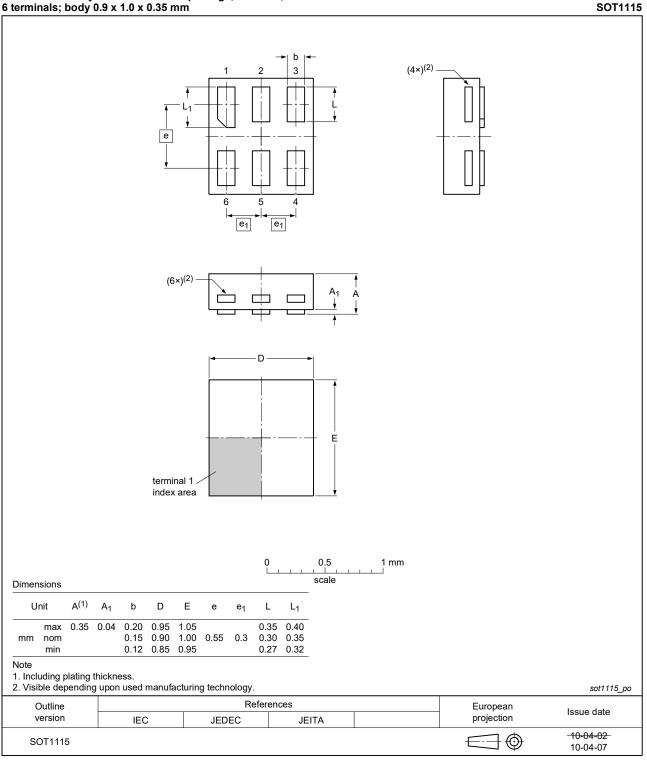


Fig. 23. Package outline SOT886 (XSON6)

Bilateral switch

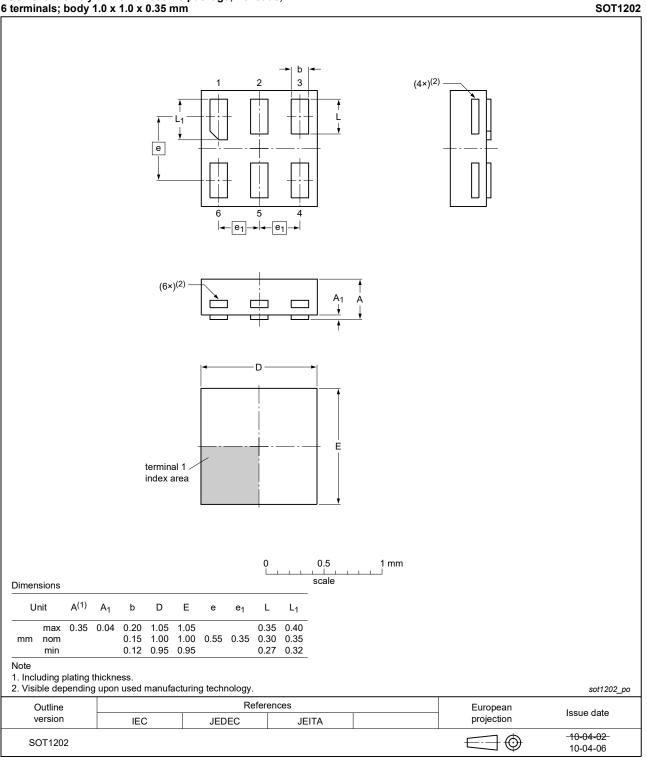
XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm





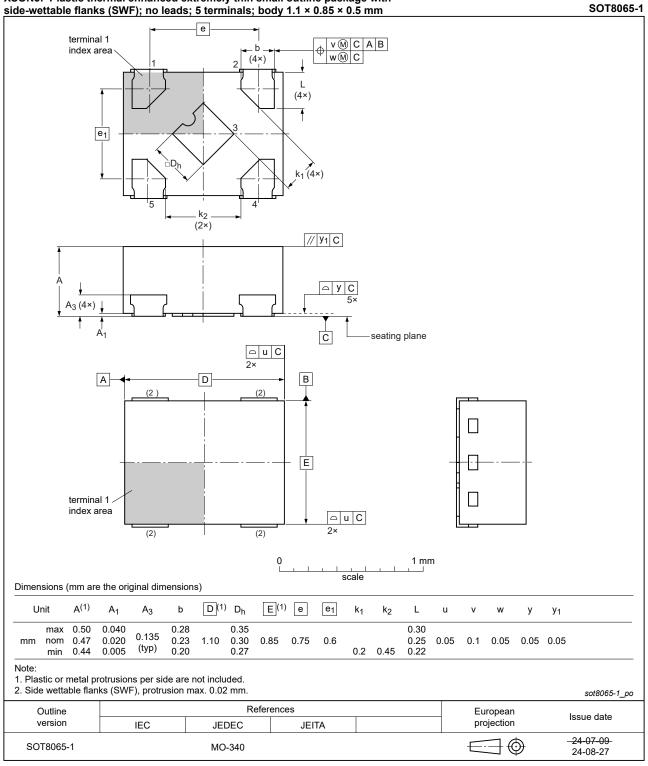
Bilateral switch

XSON6: extremely thin small outline package; no leads;	
6 terminals; body 1.0 x 1.0 x 0.35 mm	





Bilateral switch



XSON5: Plastic thermal enhanced extremely thin small outline package with side-wettable flanks (SWF); no leads; 5 terminals; body 1.1 × 0.85 × 0.5 mm

Fig. 26. Package outline SOT8065-1 (XSON5)

13. Abbreviations

Table 13. Abbreviations			
Acronym	Description		
ANSI	American National Standards Institute		
CDM	Charged Device Model		
CMOS	Complementary Metal Oxide Semiconductor		
DUT	Device Under Test		
ESD	ElectroStatic Discharge		
ESDA	ElectroStatic Discharge Association		
HBM	Human Body Model		
JEDEC	Joint Electron Device Engineering Council		
TTL	Transistor-Transistor Logic		

14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G66 v.14.1	20240903	Product data sheet	-	74LVC1G66 v.14
Modifications:	• <u>Fig. 26</u> : Ad	ded JEDEC reference MC	D-340 to SOT8065-	1 package outline drawing.
74LVC1G66 v.14	20240715	Product data sheet	-	74LVC1G66 v.13
Modifications:	Type numb	per 74LVC1G66GZ (SOT8	3065-1/XSON5) add	ed.
74LVC1G66 v.13	20230824	Product data sheet	-	74LVC1G66 v.12
Modifications:	<u>Section 2</u> :	ESD specification update	d according to the la	atest JEDEC standard.
74LVC1G66 v.12	20220112	Product data sheet	-	74LVC1G66 v.11
Modifications:	• <u>Fig. 21</u> : Pa	ckage outline drawing SC	0T353-1 (TSSOP5)	has changed.
74LVC1G66 v.11	20210608	Product data sheet	-	74LVC1G66 v.10
74LVC1G66 v.10	<u>Section 1</u> <u>Section 8</u> : 20161207	ıpdated. Derating values for P _{tot} to Product data sheet	tal power dissipatio	n updated.
	20101201	T TOULOL LALA SHEEL	-	7/11/10/06/00
Modifications:	Toble 7: Th	o maximum limite for loal		74LVC1G66 v.9
			kage current and su	」 pply current have changed
74LVC1G66 v.9	20150115	Product data sheet	-	
74LVC1G66 v.9 Modifications:	20150115 • SOT886 (>	Product data sheet (SON6) package outline c	-	pply current have changed 74LVC1G66 v.8
74LVC1G66 v.9 Modifications: 74LVC1G66 v.8	20150115 • SOT886 (> 20111202	Product data sheet (SON6) package outline c Product data sheet	-	」 pply current have changed
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74LVC1G66 v.9 Modifications: 74LVC1G66 v.8	20150115 • SOT886 (> 20111202	Product data sheet (SON6) package outline c Product data sheet	-	pply current have changed 74LVC1G66 v.8
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74LVC1G66 v.9 Modifications: 74LVC1G66 v.8 Modifications: 74LVC1G66 v.7 74LVC1G66 v.6	20150115 • SOT886 (> 20111202 • Legal page 20100730 20070827	Product data sheet (SON6) package outline c Product data sheet updated. Product data sheet Product data sheet Product data sheet	-	pply current have changed 74LVC1G66 v.8 74LVC1G66 v.7 74LVC1G66 v.6 74LVC1G66 v.5

Bilateral switch

15. 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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