Bilateral switch Rev. 12 — 12 January 2022

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 JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- 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		
74LVC1G66GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1		
74LVC1G66GV	-40 °C to +125 °C	125 °C SC-74A plastic surface-mounted package; 5 leads				
74LVC1G66GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886		
74LVC1G66GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115		
74LVC1G66GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202		

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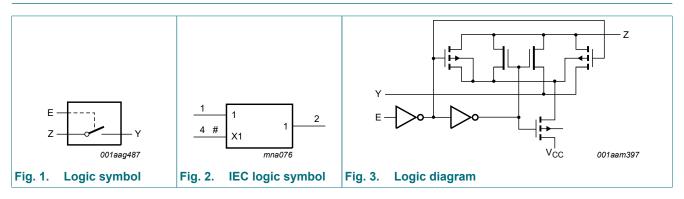
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4. Marking

Table 2. Marking	
Type number	Marking code [1]
74LVC1G66GW	VL
74LVC1G66GV	V66
74LVC1G66GM	VL
74LVC1G66GN	VL
74LVC1G66GS	VL

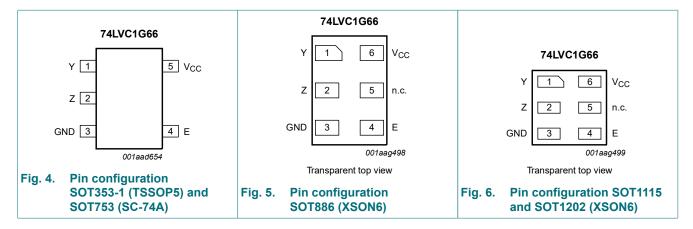
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

Symbol	Pin		Description		
	SOT353-1, SOT753	_			
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

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: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

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

For SOT886 (XSON6) package: Ptot 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 °C.

For SOT1202 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

9. Recommended operating conditions

	Recommended operating conditi					
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
Δt/ΔV	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

Table 6 Decor and a constitute condition

[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.

Applies to control signal levels. [2]

10. Static characteristics

Table 7. Static characteristics

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

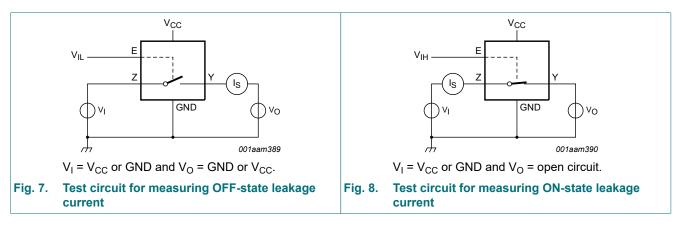
Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
				Min	Typ [1]	Мах	Min	Мах	
VIH	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V		$0.65V_{CC}$	-	-	$0.65V_{CC}$	-	V
		V _{CC} = 2.3 V to 2.7 V		1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V		2.0	-	-	2.0	-	V
		V _{CC} = 4.5 V to 5.5 V		0.7V _{CC}	-	-	0.7V _{CC}	-	V
VIL	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 _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. 7</u>	[2]	-	±0.1	±0.2	-	±0.5	μA
I _{S(ON)}	ON-state leakage current	V _{CC} = 5.5 V; see <u>Fig. 8</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
CI	input capacitance			-	2.0	-	-	-	pF
C _{S(OFF)}	OFF-state capacitance			-	6.5	-	-	-	pF
C _{S(ON)}	ON-state capacitance			-	11	-	-	-	pF

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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. 9; for graphs see Fig. 10 to Fig. 15.

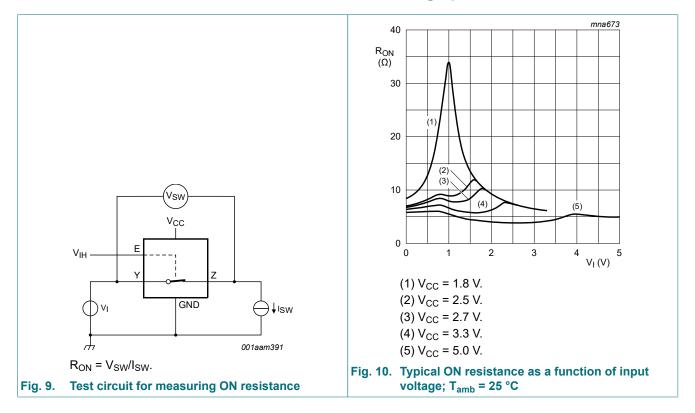
Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	o +125 °C	Unit
			Min	Typ [1]	Мах	Min	Max	
R _{ON(peak)}	ON resistance (peak)	$V_I = GND$ to V_{CC}						
		I_{SW} = 4 mA; V_{CC} = 1.65 V to 1.95 V	-	34.0	130	-	195	Ω
		I_{SW} = 8 mA; V_{CC} = 2.3 V to 2.7 V	-	12.0	30	-	45	Ω
		I _{SW} = 12 mA; 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 (rail)	V _I = GND						
		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

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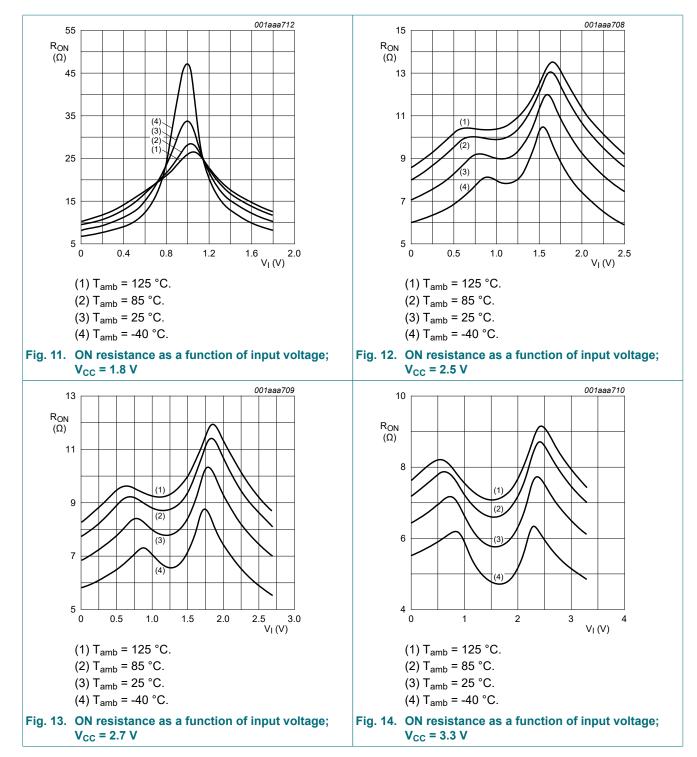
Symbol	Parameter	Conditions		°C to +8	5 °C	-40 °C to	Unit	
			Min	Typ [1]	Мах	Min	Мах	
R _{ON(flat)}	ON resistance	$V_{I} = GND \text{ to } V_{CC}$ [2]						
((flatness)	I_{SW} = 4 mA; V_{CC} = 1.65 V to 1.95 V	-	26.0	-	-	-	Ω
		I_{SW} = 8 mA; V_{CC} = 2.3 V to 2.7 V	-	5.0	-	-	-	Ω
		I _{SW} = 12 mA; V _{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.

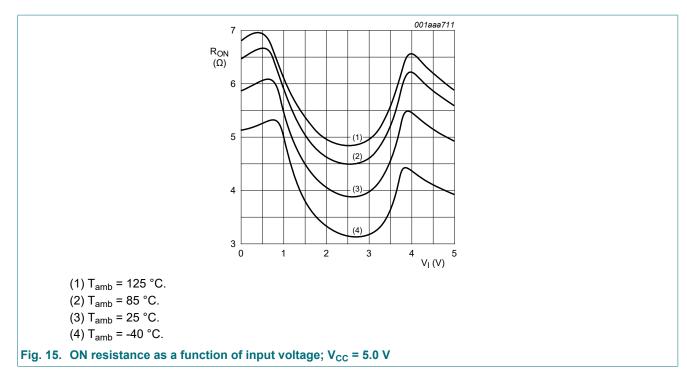


10.3. ON resistance test circuit and graphs

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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. 18.

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	o +125 °C	Unit
1			Min	Typ [1]	Max	Min	Max	-
t _{pd}	propagation delay	Y to Z or Z to Y; see Fig. 16 [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. 17</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. 17</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

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Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to	Unit	
			Min	Typ [1]	Max	Min	Max]
C _{PD}	power dissipation capacitance	$\begin{array}{ll} C_L = 50 \text{ pF; } f_i = 10 \text{ MHz;} & [6] \\ V_I = \text{GND to } V_{\text{CC}} \end{array}$						
		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 °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).

[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 μ W).

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

f_i = input frequency in MHz;

 f_o = output frequency in MHz;

 C_L = output load capacitance in pF;

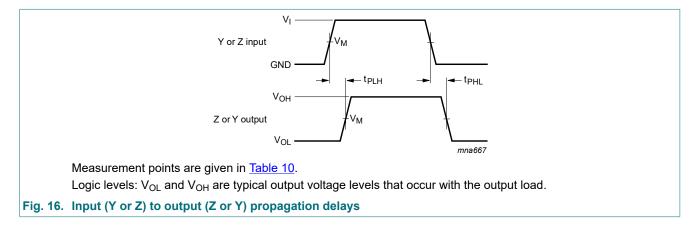
C_{S(ON)} = maximum ON-state switch capacitance in pF;

V_{CC} = supply voltage in V;

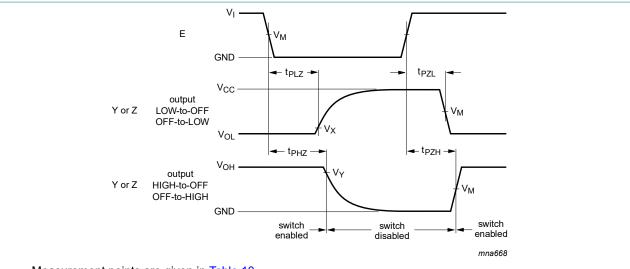
N = number of inputs switching;

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

11.1. Waveforms and test circuit



Bilateral switch



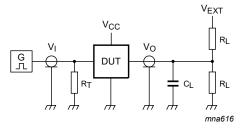
Measurement points are given in <u>Table 10</u>.

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

Fig. 17. Enable and disable times

Table 10. Measurement points

Supply voltage	Input	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	



Test data is given in Table 11.

Definitions for 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. 18. Test circuit for measuring switching times

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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

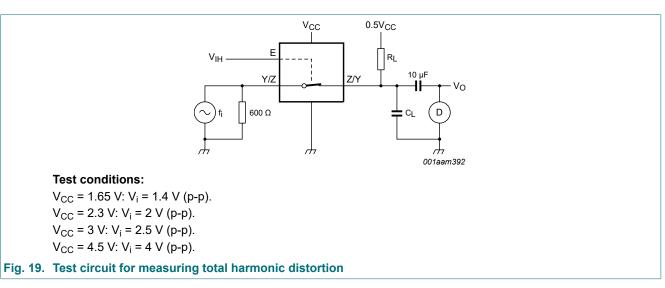
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); T_{amb} = 25 °C.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD	total harmonic distortion	R_L = 10 kΩ; C_L = 50 pF; f_i = 1 kHz; see Fig. 19				
		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 Fig. 19				
		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	-	%
f _(-3dB)	-3 dB frequency response	R_L = 600 Ω; C_L = 50 pF; see <u>Fig. 20</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. 20</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. 20</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

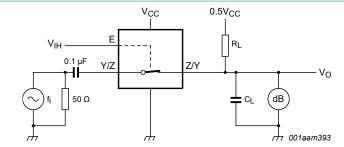
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Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
α_{iso}	isolation (OFF-state)	R_L = 600 Ω; C_L = 50 pF; f_i = 1 MHz; see <u>Fig. 21</u>				
		V _{CC} = 1.65 V	-	-46	-	dB
		V _{CC} = 2.3 V	-	-46	-	dB
		V _{CC} = 3.0 V	-	-46	-	dB
		V _{CC} = 4.5 V	-	-46	-	dB
		R_L = 50 Ω; C_L = 5 pF; f_i = 1 MHz; see <u>Fig. 21</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 Ω; C _L = 50 pF; f _i = 1 MHz; t _r = t _f = 2 ns; see Fig. 22				
		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	charge injection	$ \begin{array}{l} C_L = 0.1 \text{ nF; } V_{gen} = 0 \text{ V; } R_{gen} = 0 \Omega; \text{f}_\text{i} = 1 \text{ MHz;} \\ R_L = 1 M\Omega; \text{ see } \overline{\text{Fig. } 23} \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



Bilateral switch



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

Fig. 20. Test circuit for measuring the frequency response when switch is in ON-state

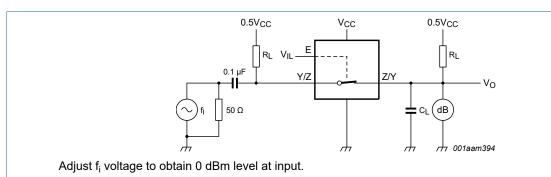


Fig. 21. Test circuit for measuring isolation (OFF-state)

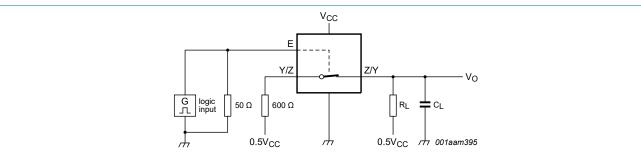
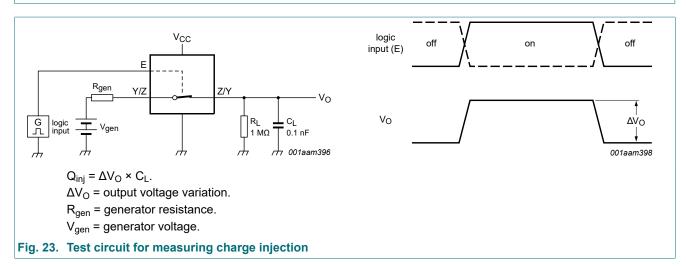


Fig. 22. Test circuit for measuring crosstalk between digital input and switch



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12. Package outline

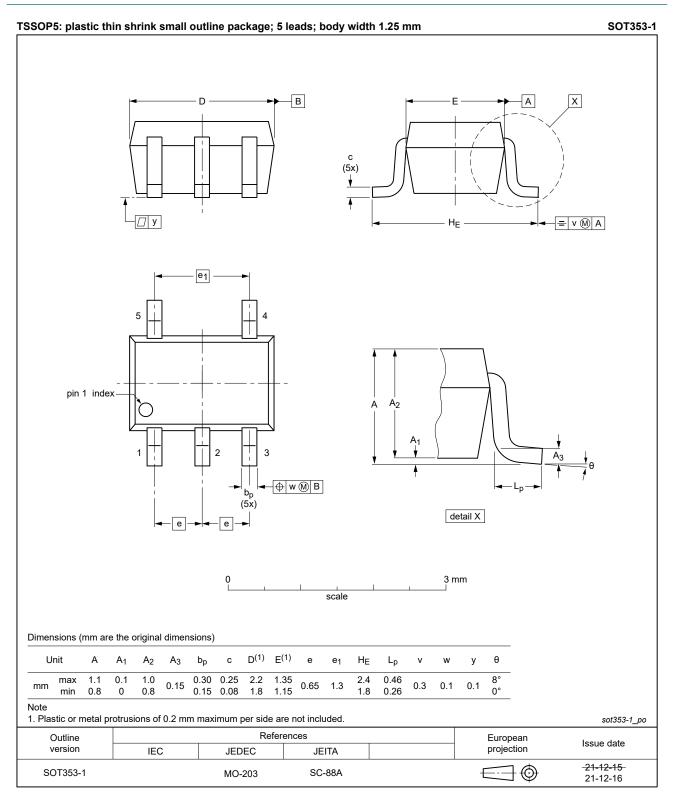


Fig. 24. Package outline SOT353-1 (TSSOP5)

Bilateral switch



SOT753

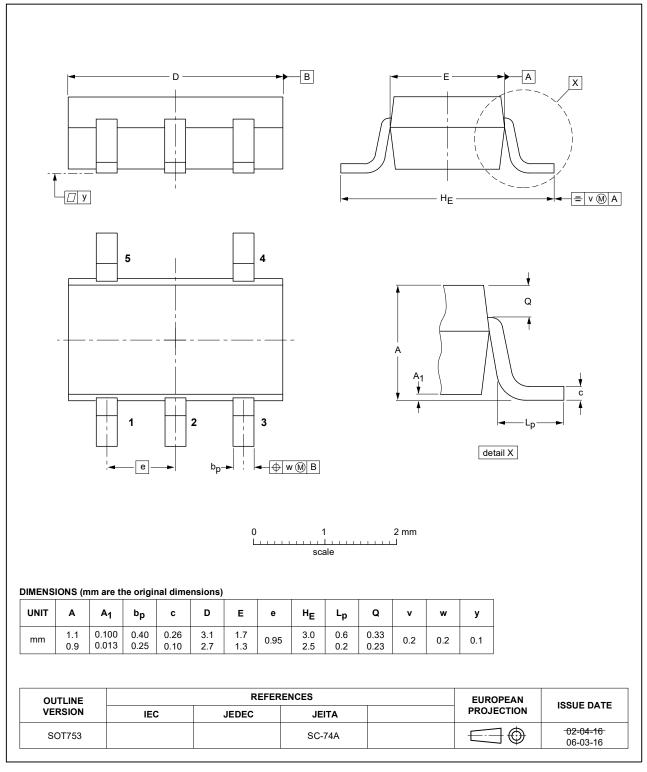


Fig. 25. Package outline SOT753 (SC-74A)

Bilateral switch

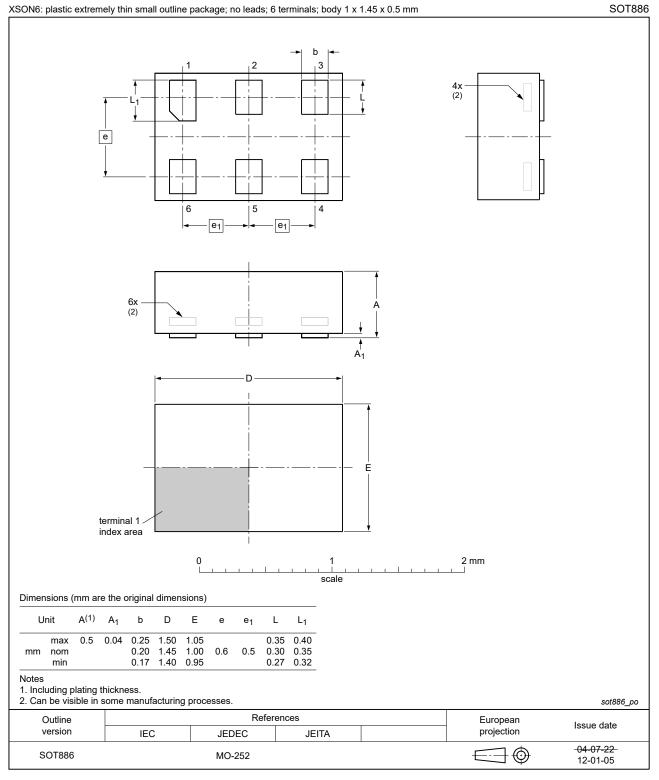


Fig. 26. Package outline SOT886 (XSON6)

Bilateral switch

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

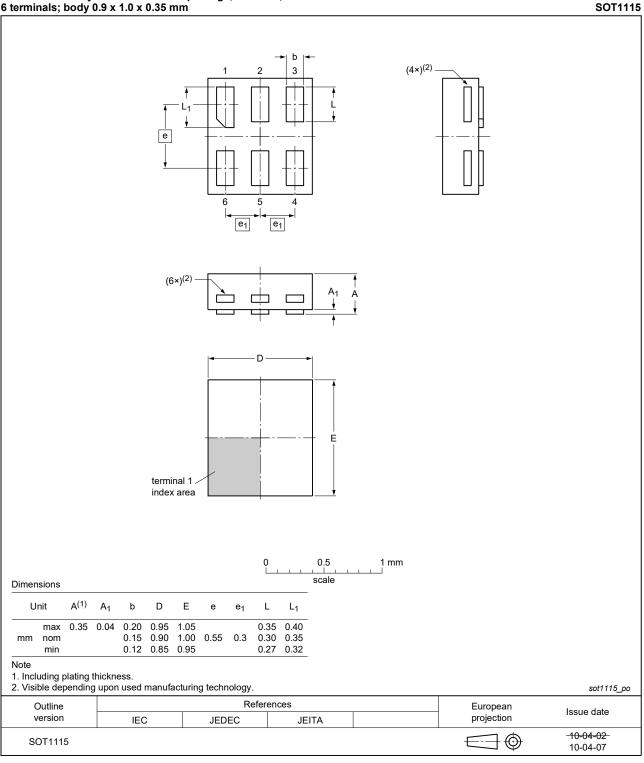
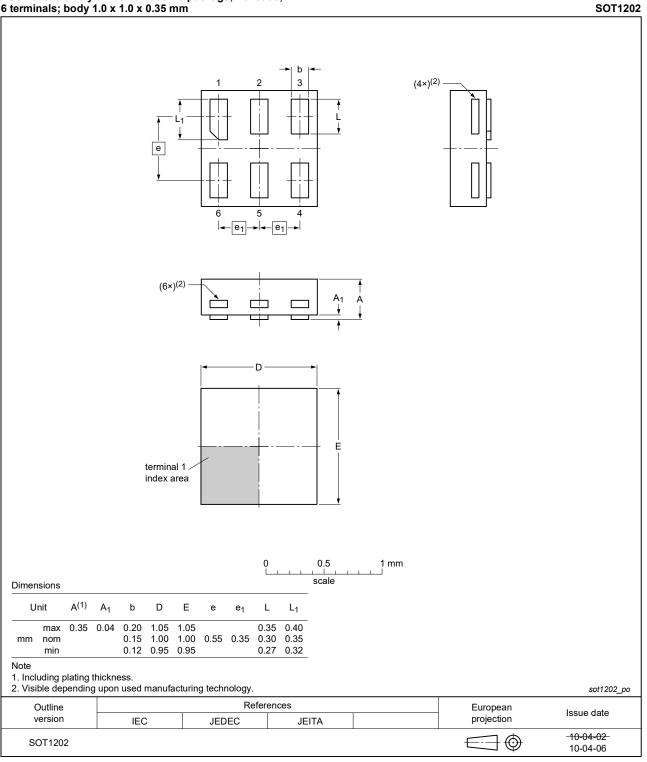


Fig. 27. Package outline SOT1115 (XSON6)

Product data sheet

Bilateral switch

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





13. Abbreviations

Table 13. Abbreviations				
Acronym	Description			
CMOS	Complementary Metal Oxide Semiconductor			
DUT	Device Under Test			
ESD	ElectroStatic Discharge			
HBM	Human Body Model			
MM	Machine Model			
TTL	Transistor-Transistor Logic			

14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LVC1G66 v.12	20220112	Product data sheet	-	74LVC1G66 v.11		
Modifications:	• <u>Fig. 24</u> : Pa	ckage outline drawing SO	T353-1 (TSSOP5)	has changed.		
74LVC1G66 v.11	20210608	Product data sheet	-	74LVC1G66 v.10		
Modifications:		of this data sheet has bee of Nexperia.	n redesigned to co	omply with the identity		
	 Legal texts have been adapted to the new company name where appropriate. Type number 74LVC1G66GF (SOT891 / XSON6) removed. 					
	 Type numb Section 1 u 	•		veu.		
		Derating values for P _{tot} tota	al power dissipatio	n updated.		
74LVC1G66 v.10	20161207	Product data sheet	-	74LVC1G66 v.9		
Modifications:	• <u>Table 7</u> : Th	e maximum limits for leaka	age current and su	pply current have changed.		
74LVC1G66 v.9	20150115	Product data sheet	-	74LVC1G66 v.8		
Modifications:	• SOT886 (X	SON6) package outline dr	awing modified.			
74LVC1G66 v.8	20111202	Product data sheet - 74LVC		74LVC1G66 v.7		
Modifications:	Legal page	s updated.				
74LVC1G66 v.7	20100730	Product data sheet	-	74LVC1G66 v.6		
74LVC1G66 v.6	20070827	Product data sheet	-	74LVC1G66 v.5		
74LVC1G66 v.5	20070807	Product data sheet	-	74LVC1G66 v.4		
74LVC1G66 v.4	20040413	Product specification	-	74LVC1G66 v.3		
74LVC1G66 v.3	20021115	Product specification	-	74LVC1G66 v.2		
74LVC1G66 v.2	20020529	Product specification	-	74LVC1G66 v.1		
74LVC1G66 v.1	20011030	Product specification	-	-		

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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