Bilateral switch Rev. 10 — 23 August 2023

1. General description

The 74LVC1G384 is a single pole, single throw analog switch. It has two input/output terminals (Y and Z) and an enable pin (E). When E is HIGH, 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
- 32 mA continuous switch current
- High noise immunity
- CMOS low power dissipation
- TTL interface compatibility at 3.3 V
- Latch-up performance meets requirements of JESD 78 Class I
- Overvoltage tolerant inputs to 5.5 V
- 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 from -40 °C to +125 °C

3. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC1G384GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	<u>SOT353-1</u>
74LVC1G384GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	<u>SOT753</u>
74LVC1G384GM	-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>
74LVC1G384GN	-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>
74LVC1G384GS	-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>
74LVC1G384GX	-40 °C to +125 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 × 0.8 × 0.32 mm	<u>SOT1226-3</u>

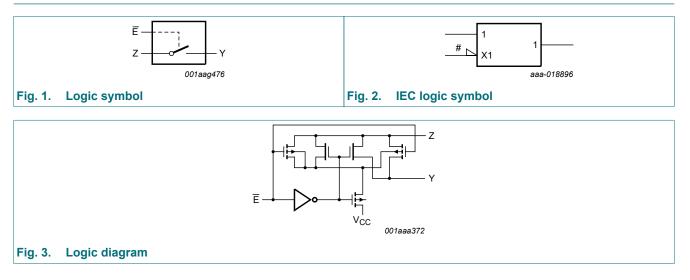
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4. Marking

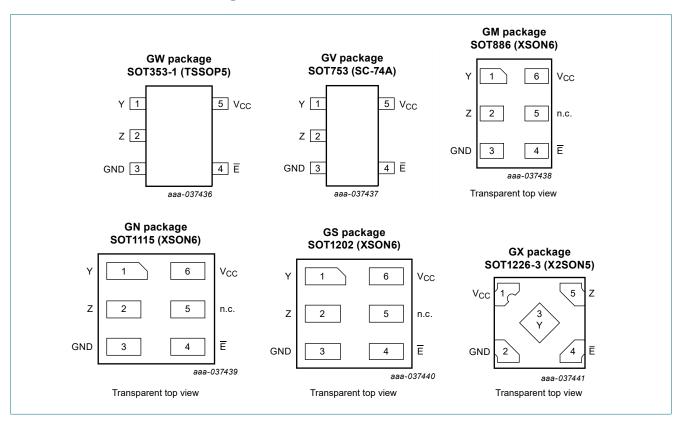
Table 2. Marking	
Type number	Marking code[1]
74LVC1G384GW	YL
74LVC1G384GV	YL
74LVC1G384GM	YL
74LVC1G384GN	YL
74LVC1G384GS	YL
74LVC1G384GX	YL

[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	Pin				
	TSSOP5 and SC-74	XSON6	X2SON5			
Y	1	1	3	independent input or output		
Z	2	2	5	independent output or input		
GND	3	3	2	ground (0 V)		
Ē	4	4	4	enable input (active LOW)		
n.c.	-	5	-	not connected		
V _{CC}	5	6	1	supply voltage		

7. Functional description

Table 4. Function table

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

Input E	Switch
L	ON-state
Н	OFF-state

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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_{I} < -0.5 V or V_{I} > V_{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 °C.

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

For SOT1226-3 (X2SON5) package: P_{tot} derates linearly with 3.0 mW/K above 67 °C.

9. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	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 fall	V _{CC} = 1.65 V to 2.7 V	-	-	20	ns/V
	rate	V _{CC} = 2.7 V to 5.5 V	-	-	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.

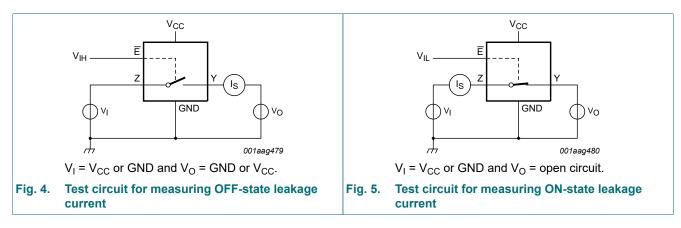
10. Static characteristics

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 ℃	Unit
				Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH-level input	V _{CC} = 1.65 V to 1.95 V		0.65 × V _{CC}	-	-	0.65 × V _{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		0.7 × V _{CC}	-	-	0.7 × V _{CC}	-	V
V _{IL}	LOW-level input	V _{CC} = 1.65 V to 1.95 V		-	-	$0.35 \times V_{CC}$	-	0.35 × V _{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		-	-	$0.3 \times V_{CC}$	-	0.3 × V _{CC}	V
l _l	input leakage current	pin E; V_1 = 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; $V_I = V_{CC} - 0.6 V$; $V_{SW} = GND \text{ or } V_{CC}$; $V_{CC} = 5.5 V$	[2]	-	5	500	-	500	μA
CI	input capacitance			-	2.0	-	-	-	pF
$C_{\text{S(OFF)}}$	OFF-state capacitance			-	5.0	-	-	-	pF
C _{S(ON)}	ON-state capacitance			-	9.5	-	-	-	pF

10.1. Test circuits



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10.2. ON resistance

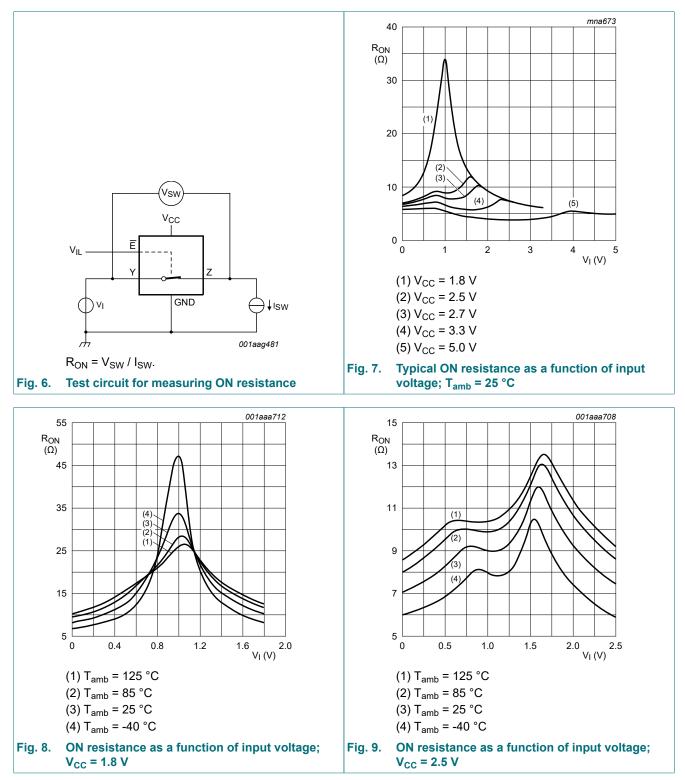
Table 8. ON resistance

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

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	Unit	
			Min	Typ[1]	Мах	Min	Мах	
R _{ON(peak)}	ON resistance	$V_{I} = GND$ to V_{CC} ; see <u>Fig. 6</u>						
	(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 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; see <u>Fig. 6</u>						_
	(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 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
		$V_{I} = V_{CC}$; see <u>Fig. 6</u>				-		
		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 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]						
	(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 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 $V_{CC}.$

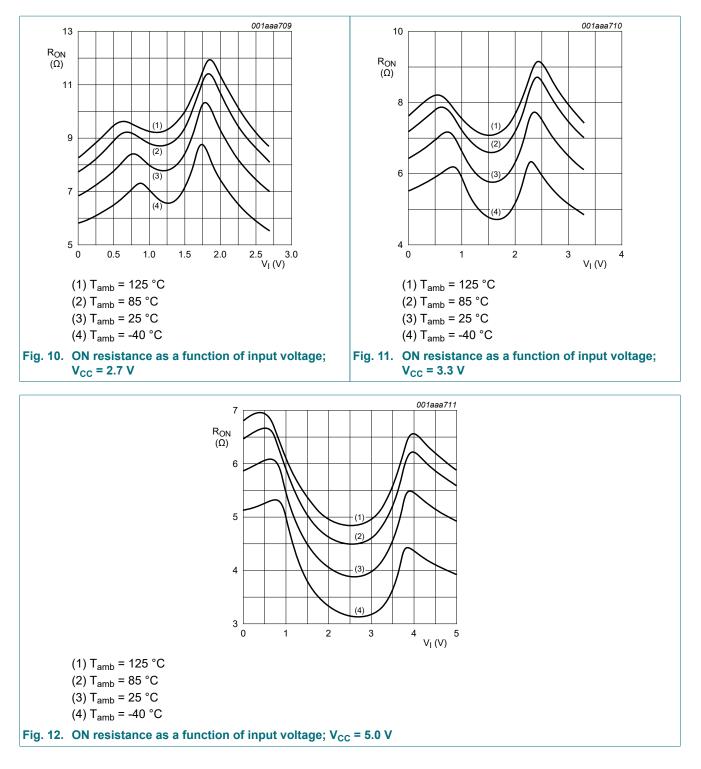
[2] Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V_{CC} and temperature.



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. 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 Fig. 13	[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	Ē to Y or Z; see <u>Fig. 14</u>	[4]						
		V _{CC} = 1.65 V to 1.95 V		1.0	10.0	12.0	1.0	15.5	ns
		V _{CC} = 2.3 V to 2.7 V		1.0	5.7	6.5	1.0	8.5	ns
		V _{CC} = 2.7 V		1.0	5.4	6.0	1.0	8.0	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	4.8	5.0	1.0	6.5	ns
		V _{CC} = 4.5 V to 5.5 V		1.0	3.3	4.2	1.0	5.5	ns
t _{dis}	disable time	E to Y or Z; see Fig. 14	[5]						
		V _{CC} = 1.65 V to 1.95 V		1.0	7.4	10.0	1.0	13.0	ns
		V _{CC} = 2.3 V to 2.7 V		1.0	4.1	6.9	1.0	9.0	ns
		V _{CC} = 2.7 V		1.0	4.9	7.5	1.0	9.5	ns
		V _{CC} = 3.0 V to 3.6 V		1.0	5.4	6.5	1.0	8.5	ns
		V _{CC} = 4.5 V to 5.5 V		1.0	3.6	5.0	1.0	6.5	ns
C _{PD}	power dissipation capacitance	C_L = 50 pF; f _i = 10 MHz; V _I = GND to V _{CC}	[6]						
		V _{CC} = 2.5 V		-	13.7	-	-	-	pF
		V _{CC} = 3.3 V		-	15.2	-	-	-	pF
		V _{CC} = 5.0 V		-	18.3	-	-	-	pF

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

[2] 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).

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

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

 f_i = input frequency in MHz;

 $f_o = output frequency in MHz;$

C_L = output load capacitance in pF;

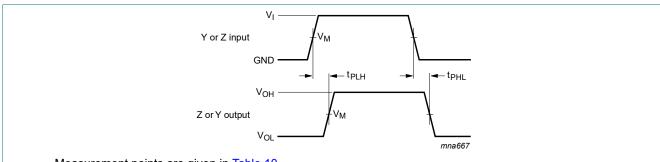
C_{S(ON)} = maximum ON-state switch capacitance in pF;

 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



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

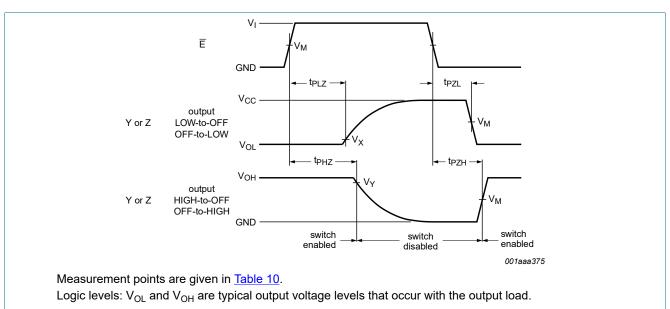


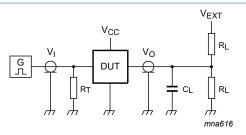
Fig. 14. Enable and disable times

Table 10. Measureme	nt points							
Supply voltage	Input	Output	Output					
V _{cc}	V _M	V _M	V _X	V _Y				
1.65 V to 1.95 V	0.5 × V _{CC}	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	V _{OH} - 0.15 V				
2.3 V to 2.7 V	0.5 × V _{CC}	$0.5 \times V_{CC}$	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	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.3 V	V _{OH} - 0.3 V				

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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		Load		V _{EXT}		
V _{cc}	VI	t _r , t _f	C _L R _L 1		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	2 × V _{CC}
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	open	GND	2 × V _{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	2 × V _{CC}

11.2. Additional dynamic characteristics

Table 12. Additional dynamic characteristics

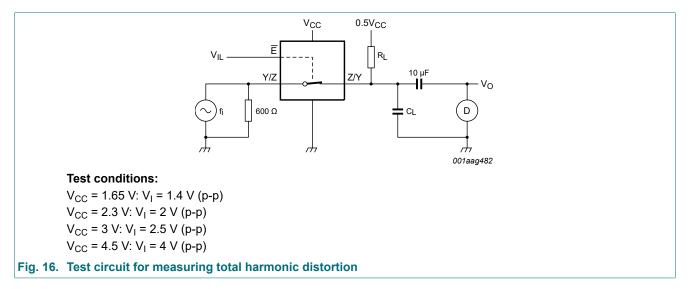
At recommended operating conditions; typical values measured at T_{amb} = 25 °C.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD	total harmonic distortion	R_L = 10 k Ω ; C_L = 50 pF; f _i = 1 kHz; see <u>Fig. 16</u>				
		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 Fig. 18				
		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; $R_L = 600 \Omega$; $C_L = 50 \text{ pF}$; $f_i = 1 \text{ MHz}$; $t_r = t_f = 2 \text{ ns}$; 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	C_L = 0.1 nF; V _{gen} = 0 V; R _{gen} = 0 Ω; f _i = 1 MHz; R _L = 1 MΩ; see Fig. 20				
		V _{CC} = 1.8 V	-	3.3	-	рС
		V _{CC} = 2.5 V	-	4.1	-	pC
		V _{CC} = 3.3 V	-	5.0	-	рС
		$V_{CC} = 4.5 V$	-	6.4	-	pC
		V _{CC} = 5.5 V	-	7.5	_	pC

11.3. Test circuits



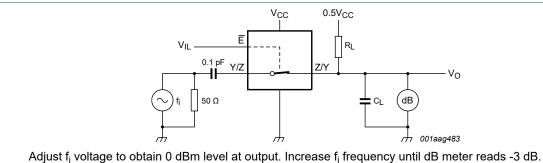
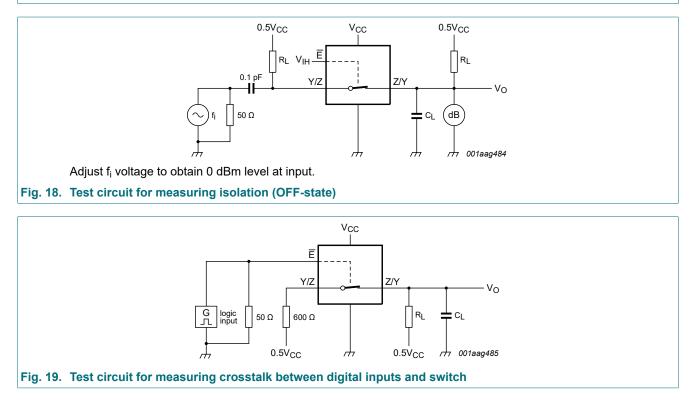
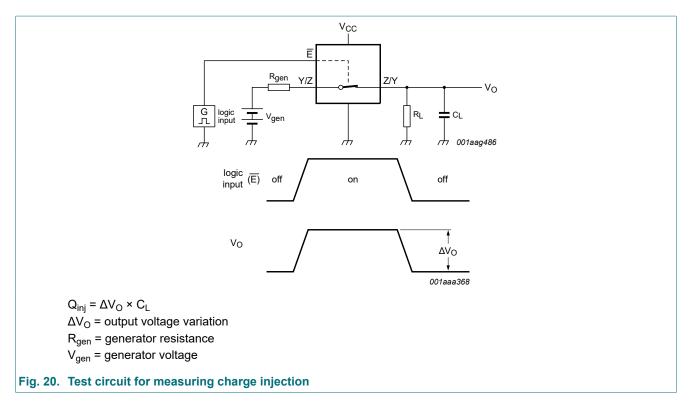


Fig. 17. Test circuit for measuring the frequency response when switch is in ON-state



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Product data sheet

12. Package outline

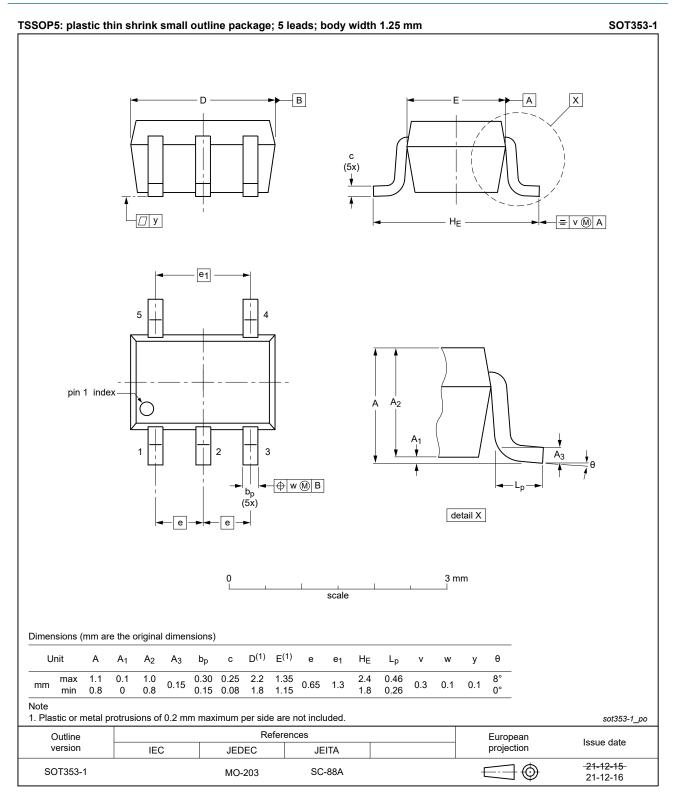


Fig. 21. Package outline SOT353-1 (TSSOP5)

74LVC1G384

Bilateral switch



SOT753

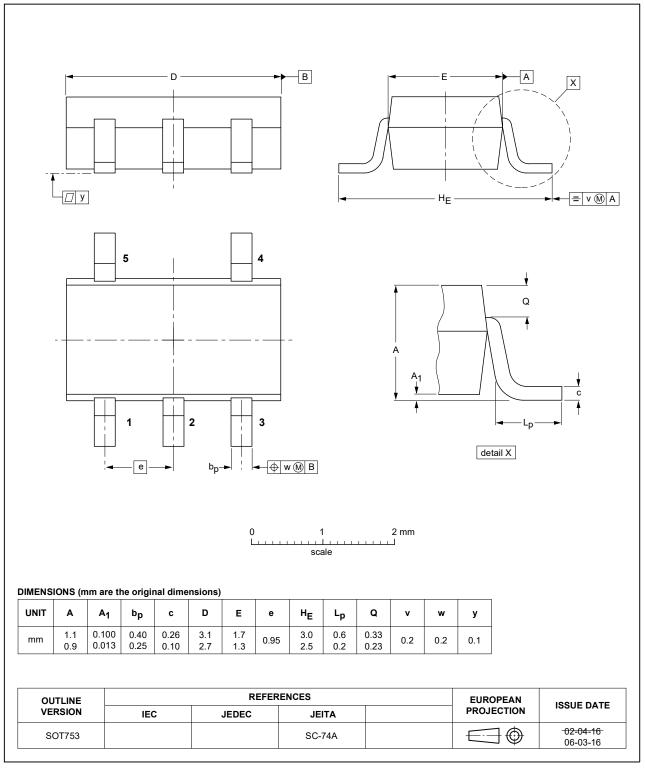


Fig. 22. Package outline SOT753 (SC-74A)

Bilateral switch

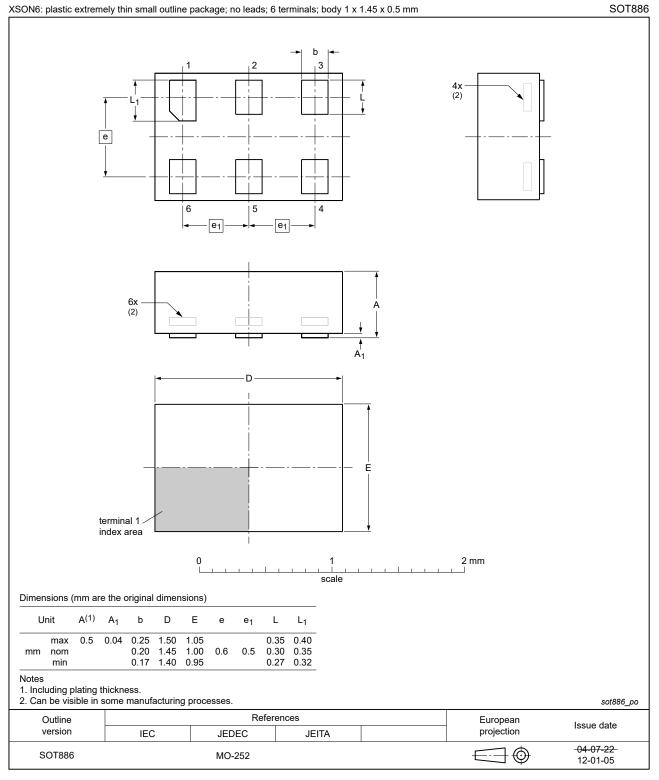
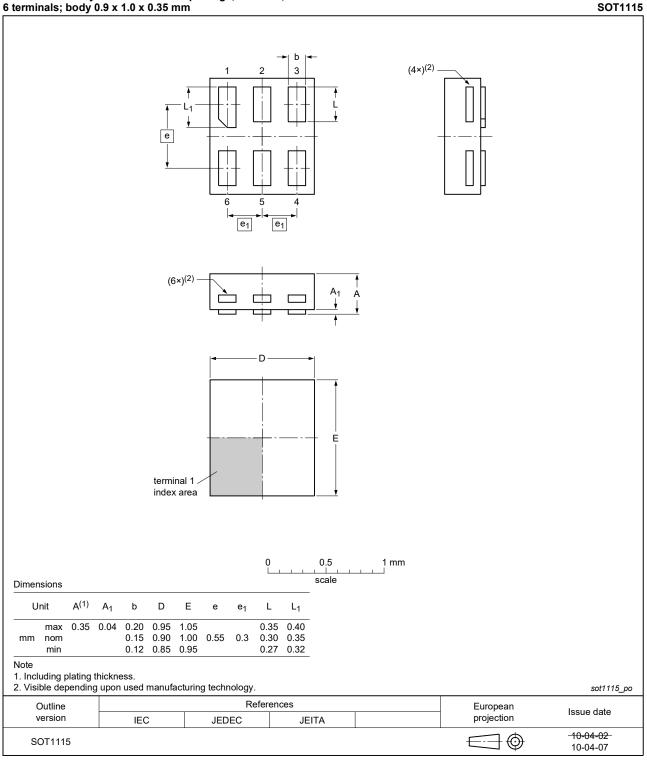


Fig. 23. Package outline SOT886 (XSON6)

Bilateral switch

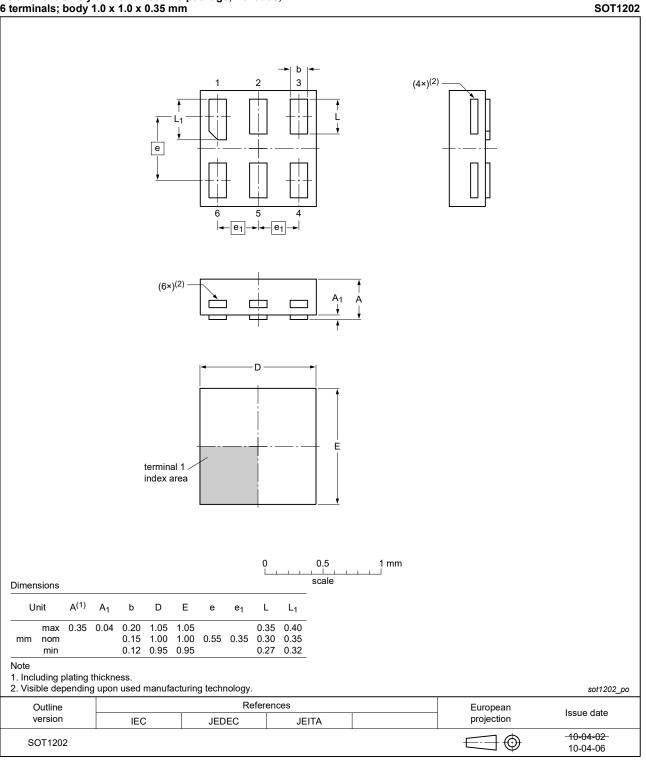
XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm





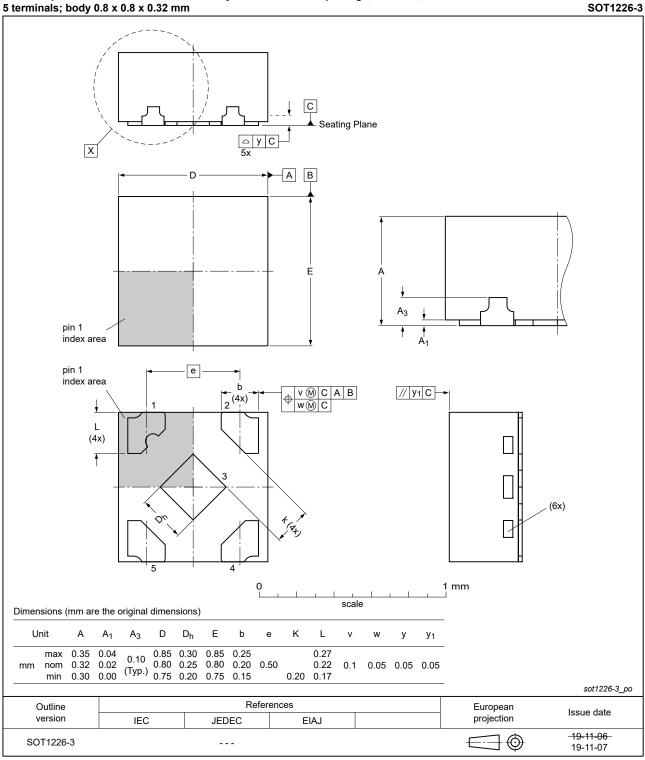
Bilateral switch

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





Bilateral switch



X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 x 0.8 x 0.32 mm

Fig. 26. Package outline SOT1226-3 (X2SON5)

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Product data sheet

13. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
TTL	Transistor-Transistor Logic

14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC1G384 v.10	20230823	Product data sheet	-	74LVC1G384 v.9	
Modifications:	<u>Section 2</u> : E	SD specification updated	according to the la	atest JEDEC standard.	
74LVC1G384 v.9	20220816	Product data sheet	-	74LVC1G384 v.8	
Modifications:	Package S	OT1226 (X2SON5) has ch	anged to SOT122	6-3 (X2SON5).	
74LVC1G384 v.8	20220208	Product data sheet	-	74LVC1G384 v.7	
Modifications:	guidelines c Legal texts <u>Section 1</u> ar <u>Table 5</u> : De <u>Fig. 21</u> : Pac	of this data sheet has been of Nexperia. have been adapted to the nd <u>Section 2</u> updated. rating values for P _{tot} total ckage outline drawing SO [*] er 74LVC1G384GF (SOT	new company nar power dissipation (T353-1 (TSSOP5)	ne where appropriate. updated. has changed.	
74LVC1G384 v.7	20161207	Product data sheet	-	74LVC1G384 v.6	
Modifications:	• <u>Table 7</u> : The	e maximum limits for leak	age current and su	pply current have changed.	
74LVC1G384 v.6	20150903	Product data sheet	-	74LVC1G384 v.5	
Modifications:	Added type	number 74LVC1G384GX	(SOT1226)		
74LVC1G384 v.5	20150115	Product data sheet	-	74LVC1G384 v.4	
Modifications:	• SOT886 (X	SON6) package outline dr	awing modified.		
74LVC1G384 v.4	20111206	Product data sheet	-	74LVC1G384 v.3	
Modifications:	Legal pages	s updated.			
74LVC1G384 v.3	20101103	Product data sheet	-	74LVC1G384 v.2	
74LVC1G384 v.2	20070829	Product data sheet	-	74LVC1G384 v.1	
74LVC1G384 v.1	20040226	Product data sheet	-	-	

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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