74LVC2G3157

Dual 10 Ω single-pole double-throw analog switch

Rev. 3 — 25 March 2019 Product data sheet

1. General description

The 74LVC2G3157 is a dual low-ohmic single-pole double-throw analog switch suitable for use as an analog or digital 2:1 multiplexer/demultiplexer. Each switch has a digital select input (nS), two independent inputs/outputs (nY0 and nY1) and a common input/output (nZ).

Schmitt trigger action at the select inputs makes the circuit tolerant of slower input rise and fall times across the entire V_{CC} range from 1.65 V to 5.5 V.

2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- Very low ON resistance:
  - 10.4 Ω (typical) at V_{CC} = 2.7 V
  - 7.8 Ω (typical) at V_{CC} = 3.3 V
  - 6.2 Ω (typical) at V_{CC} = 5 V
- Switch current capability of 32 mA
- Break-before-make switching
- High noise immunity
- CMOS low power consumption
- TTL interface compatibility at 3.3 V
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- ESD protection:
  - HBM ANSI/ESDA/JEDEC JS-001 Class 2 exceeds 2 kV
  - MM JESD22-A115-C exceeds 200 V
  - CDM JESD22-C101E exceeds 1000 V
- Select input accepts voltages up to 5.5 V
- 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
74LVC2G3157DP	-40 °C to +125 °C	TSSOP10	plastic thin shrink small outline package; 10 leads; body width 3 mm	SOT552-1
74LVC2G3157GM	-40 °C to +125 °C	XQFN10	plastic extremely thin quad flat package; no leads; 10 terminals; body 1.55 x 2.00 x 0.50 mm	SOT1049-3

4. Marking

Table 2. Marking codes

Type number	Marking code[1]
74LVC2G3157DP	YJ
74LVC2G3157GM	YJ

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

5. Functional diagram

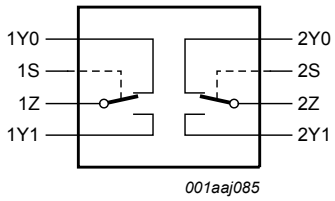


Fig. 1. Logic symbol

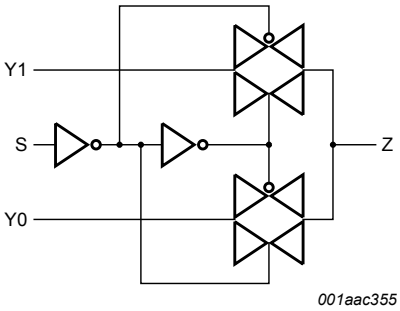


Fig. 2. Logic diagram (one switch)

6. Pinning information

6.1. Pinning

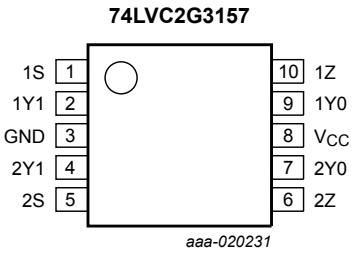


Fig. 3. Pin configuration SOT552-1 (TSSOP10)

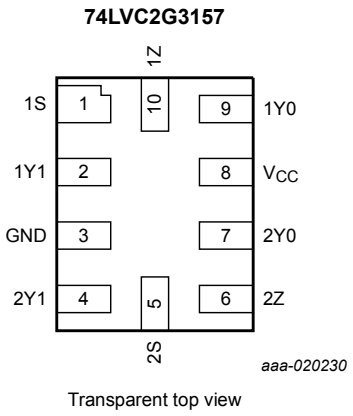


Fig. 4. Pin configuration SOT1049-3 (XQFN10)

6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
1S	1	select input
1Y1	2	independent input or output
GND	3	ground (0 V)
2Y1	4	independent input or output
2S	5	select input
2Z	6	common output or input
2Y0	7	independent input or output
V_{CC}	8	supply voltage
1Y0	9	independent input or output
1Z	10	common output or input

7. Functional description

Table 4. Function table

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

Input nS	Channel on
L	nY0
H	nY1

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		[1]	-0.5	+6.5	V
I_{IK}	input clamping current	V_I < -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 TSSOP10 package: above 120°C the value of P_{tot} derates linearly with 8.3 mW/K.
For XQFN10 package: above 90°C the value of P_{tot} derates linearly with 4.2 mW/K.

9. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
V_{CC}	supply voltage			1.65	-	5.5	V
V_I	input voltage			0	-	5.5	V
V_{SW}	switch voltage	enable and disable mode	[1]	0	-	V_{CC}	V
T_{amb}	ambient temperature			-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V_{CC} = 1.65 V to 2.7 V	[2]	-	-	20	ns/V
		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 Yn, 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 Yn. 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

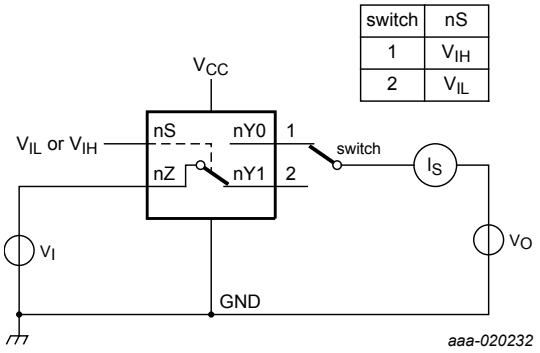
At recommended operating conditions; voltages are referenced to GND (ground 0 V).

Symbol	Parameter	Conditions		-40 °C to +85 °C			-40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	
V_{IH}	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} = 3 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 voltage	V_{CC} = 1.65 V to 1.95 V		-	-	0.35V_{CC}	-	0.35V_{CC}	V
		V_{CC} = 2.3 V to 2.7 V		-	-	0.7	-	0.7	V
		V_{CC} = 3 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 nS; 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 Fig. 5	[2]	-	±0.1	±0.2	-	±0.5	μA
$I_{S(ON)}$	ON-state leakage current	V_{CC} = 5.5 V; see Fig. 6	[2]	-	±0.1	±1	-	±2	μA
I_{CC}	supply current	V_I = 5.5 V or GND; V_{SW} = GND or V_{CC}; V_{CC} = 1.65 V to 5.5 V	[2]	-	0.1	4	-	4	μA
ΔI_{CC}	additional supply current	pin nS; V_I = V_{CC} - 0.6 V; V_{CC} = 5.5 V; V_{SW} = GND or V_{CC}	[2]	-	5	500	-	500	μA
C_I	input capacitance			-	2.5	-	-	-	pF
$C_{S(OFF)}$	OFF-state capacitance			-	6.0	-	-	-	pF
$C_{S(ON)}$	ON-state capacitance			-	18	-	-	-	pF

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

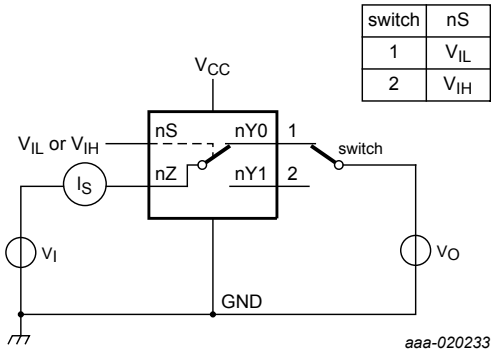
[2] These typical values are measured at V_{CC} = 3.3 V

10.1. Test circuits



$V_I = V_{CC}$ or GND and V_O = GND or V_{CC}.

Fig. 5. Test circuit for measuring OFF-state leakage current



$V_I = V_{CC}$ or GND and V_O = open circuit.

Fig. 6. Test circuit for measuring ON-state leakage current

10.2. ON resistance

Table 8. ON resistance

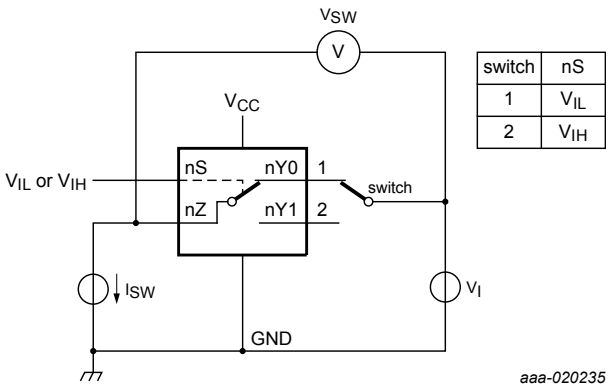
At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graphs see Fig. 8 to Fig. 13.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
$R_{ON(peak)}$	ON resistance (peak)	V_I = GND to V_{CC}; see Fig. 7						
		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; see Fig. 7						
		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}; see Fig. 7						
		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

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
$R_{ON(flat)}$	ON resistance (flatness)	V_I = GND to V_{CC} [2]						
		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.

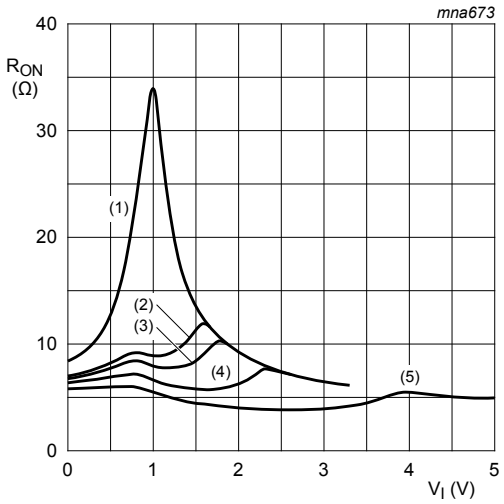
10.3. ON resistance test circuit and graphs



switch	nS
1	V_{IL}
2	V_{IH}

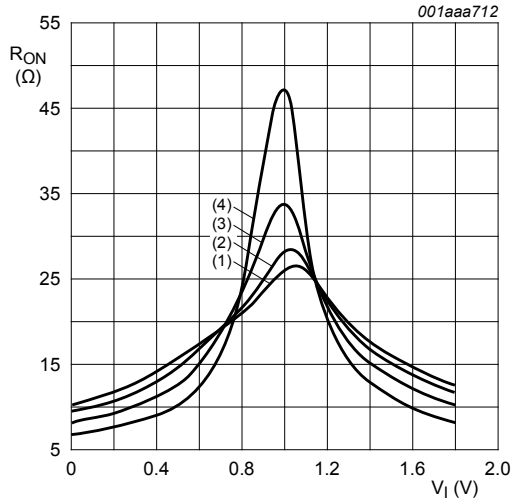
$R_{ON} = V_{SW}/I_{SW}$.

Fig. 7. Test circuit for measuring ON resistance



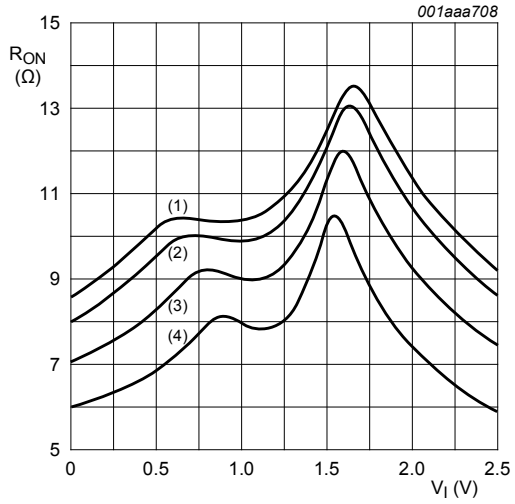
(1) V_{CC} = 1.8 V.
(2) V_{CC} = 2.5 V.
(3) V_{CC} = 2.7 V.
(4) V_{CC} = 3.3 V.
(5) V_{CC} = 5.0 V.

Fig. 8. Typical ON resistance as a function of input voltage; T_{amb} = 25 °C



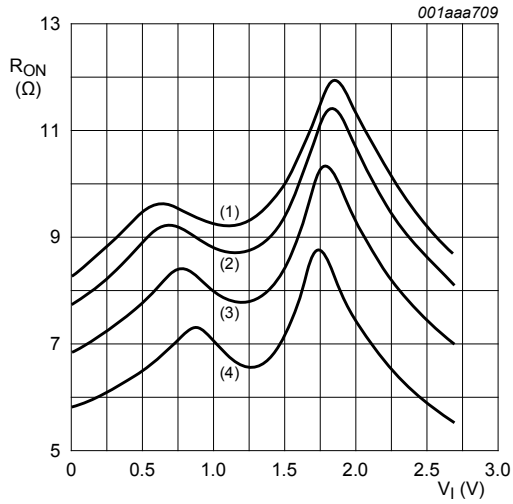
(1) T_{amb} = 125 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.
(4) T_{amb} = -40 °C.

Fig. 9. ON resistance as a function of input voltage; V_{CC} = 1.8 V



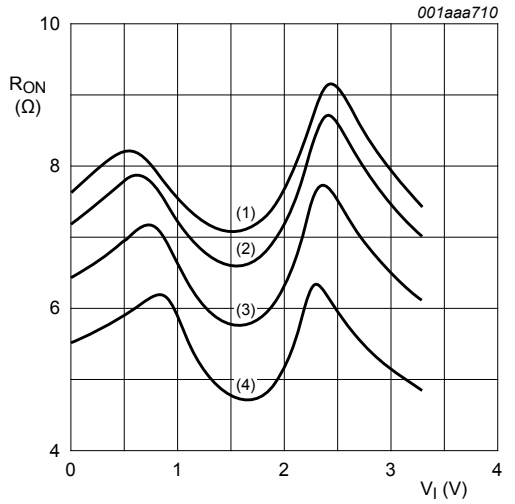
(1) T_{amb} = 125 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.
(4) T_{amb} = -40 °C.

Fig. 10. ON resistance as a function of input voltage; V_{CC} = 2.5 V



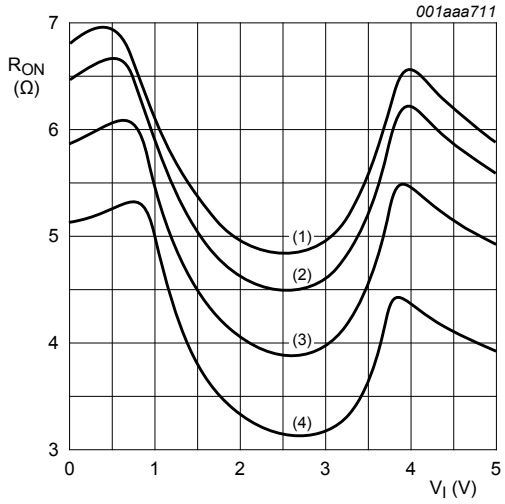
(1) T_{amb} = 125 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.
(4) T_{amb} = -40 °C.

Fig. 11. ON resistance as a function of input voltage; V_{CC} = 2.7 V



(1) T_{amb} = 125 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.
(4) T_{amb} = -40 °C.

Fig. 12. ON resistance as a function of input voltage; V_{CC} = 3.3 V



(1) T_{amb} = 125 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.
(4) T_{amb} = -40 °C.

Fig. 13. ON resistance as a function of input voltage; V_{CC} = 5.0 V

11. Dynamic characteristics

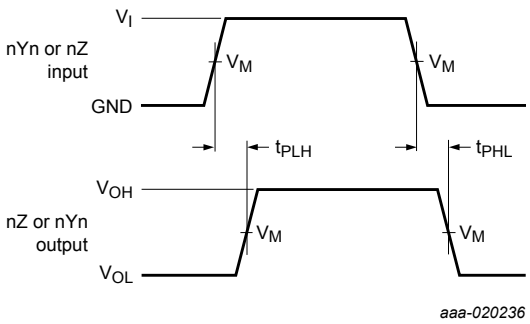
Table 9. Dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 17.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
t_{pd}	propagation delay	nYn to nZ or nZ to nYn; see Fig. 14 [2][3]						
		V_{CC} = 1.65 V to 1.95 V	-	-	2	-	3.0	ns
		V_{CC} = 2.3 V to 2.7 V	-	-	1.2	-	2.0	ns
		V_{CC} = 2.7 V	-	-	1.0	-	1.5	ns
		V_{CC} = 3.0 V to 3.6 V	-	-	0.8	-	1.5	ns
		V_{CC} = 4.5 V to 5.5 V	-	-	0.6	-	1.0	ns
t_{en}	enable time	nS to nYn; see Fig. 15 [4]						
		V_{CC} = 1.65 V to 1.95 V	1	8.7	24	1	26.5	ns
		V_{CC} = 2.3 V to 2.7 V	1	5.3	14	1	15.5	ns
		V_{CC} = 2.7 V	1	4.9	14	1	15.5	ns
		V_{CC} = 3.0 V to 3.6 V	0.5	4	7.6	0.5	8.5	ns
		V_{CC} = 4.5 V to 5.5 V	0.5	3	5.7	0.5	6.6	ns
t_{dis}	disable time	nS to nYn; see Fig. 15 [5]						
		V_{CC} = 1.65 V to 1.95 V	2.5	6	13	2.5	14.5	ns
		V_{CC} = 2.3 V to 2.7 V	2	4.4	7.5	2	8.5	ns
		V_{CC} = 2.7 V	1.5	4.2	7.5	1.5	8.5	ns
		V_{CC} = 3.0 V to 3.6 V	1.5	3.6	5.3	1.5	6	ns
		V_{CC} = 4.5 V to 5.5 V	0.8	2.9	3.8	0.8	4.5	ns
t_{b-m}	break-before-make time	C_L = 35 pF; R_L = 50 Ω; see Fig. 16 [6]						
		V_{CC} = 1.65 V to 1.95 V	0.5	-	-	0.5	-	ns
		V_{CC} = 2.3 V to 2.7 V	0.5	-	-	0.5	-	ns
		V_{CC} = 2.7 V	0.5	-	-	0.5	-	ns
		V_{CC} = 3 V to 3.6 V	0.5	-	-	0.5	-	ns
		V_{CC} = 4.5 V to 5.5 V	0.5	-	-	0.5	-	ns

[1] Typical values are measured at T_{amb} = 25 °C and nominal V_{CC}.
[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] Break-before-make specified by design.

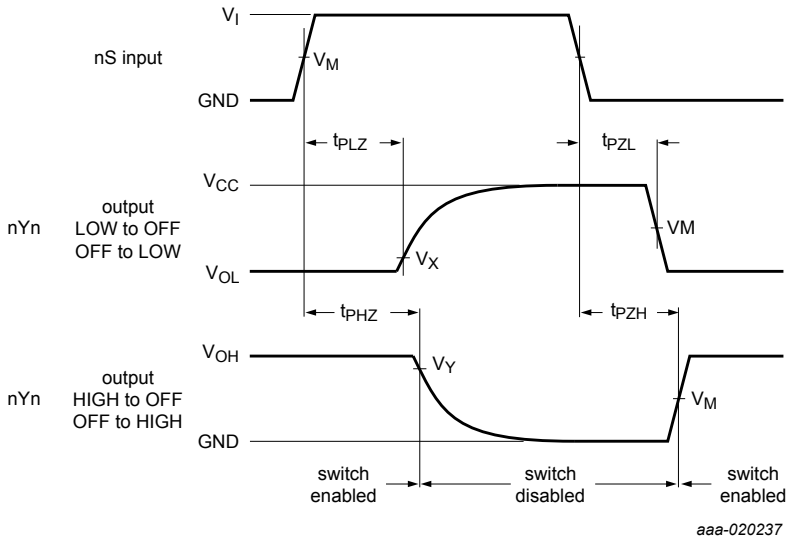
11.1. Waveforms and test circuits



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. 14. Input (nYn or nZ) to output (nZ or nYn) propagation delays



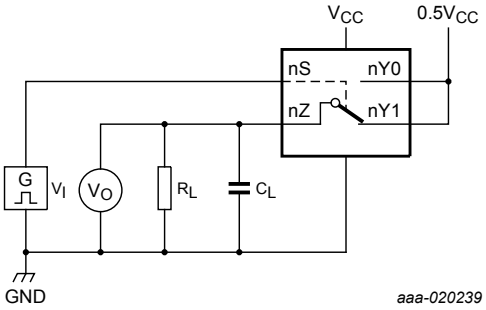
Measurement points are given in Table 10.

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

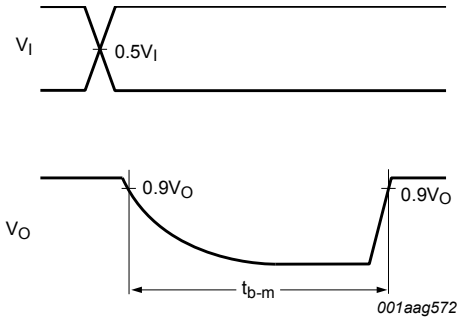
Fig. 15. Enable and disable times

Table 10. Measurement points

Supply voltage	Input	Output		
V_{CC}	V_M	V_M	V_X	V_Y
1.65 V to 5.5 V	$0.5V_{CC}$	$0.5V_{CC}$	V_{OL} + 0.3 V	V_{OH} - 0.3 V

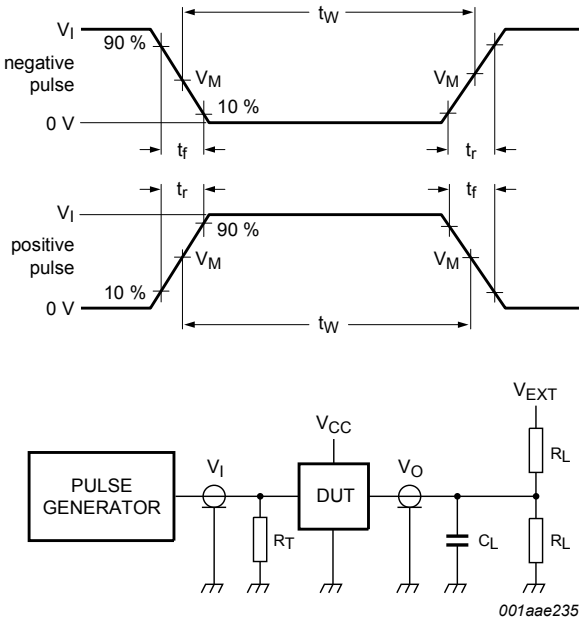


a. Test circuit



b. Input and output measurement points

Fig. 16. Test circuit for measuring break-before-make timing



Test data is given in Table 11.

Definitions for test circuit:

R_L = Load resistance.

C_L = Load capacitance including jig and probe capacitance.

R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator.

V_{EXT} = Test voltage for switching times.

Fig. 17. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	Input		Load		V_{EXT}		
V_{CC}	V_I	t_r, t_f	C_L	R_L	t_{PLH}, t_{PHL}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
1.65 V to 1.95 V	V_{CC}	≤ 2.0 ns	50 pF	500 Ω	open	GND	$2V_{CC}$
2.3 V to 2.7 V	V_{CC}	≤ 2.0 ns	50 pF	500 Ω	open	GND	$2V_{CC}$
2.7 V	V_{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	$2V_{CC}$
3 V to 3.6 V	V_{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	$2V_{CC}$
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	Typ	Max	Unit
THD	total harmonic distortion	f_i = 600 Hz to 20 kHz; R_L = 600 Ω; C_L = 50 pF; V_I = 0.5 V (p-p); see Fig. 18				
		V_{CC} = 1.65 V	-	0.260	-	%
		V_{CC} = 2.3 V	-	0.078	-	%
		V_{CC} = 3.0 V	-	0.078	-	%
		V_{CC} = 4.5 V	-	0.078	-	%
$f_{(-3dB)}$	-3 dB frequency response	R_L = 50 Ω; see Fig. 19				
		V_{CC} = 1.65 V	-	200	-	MHz
		V_{CC} = 2.3 V	-	300	-	MHz
		V_{CC} = 3.0 V	-	300	-	MHz
		V_{CC} = 4.5 V	-	300	-	MHz
α_{iso}	isolation (OFF-state)	R_L = 50 Ω; C_L = 5 pF; f_i = 10 MHz; see Fig. 20				
		V_{CC} = 1.65 V	-	-42	-	dB
		V_{CC} = 2.3 V	-	-42	-	dB
		V_{CC} = 3.0 V	-	-40	-	dB
		V_{CC} = 4.5 V	-	-40	-	dB
Xtalk	crosstalk	between switches; f_i = 10 MHz; see Fig. 21				
		V_{CC} = 1.65 V	-	-54	-	dB
		V_{CC} = 2.3 V	-	-54	-	dB
		V_{CC} = 3.0 V	-	-54	-	dB
		V_{CC} = 4.5 V	-	-54	-	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 MΩ; see Fig. 22				
		V_{CC} = 1.8 V	-	3.3	-	pC
		V_{CC} = 2.5 V	-	4.1	-	pC
		V_{CC} = 3.3 V	-	5.0	-	pC
		V_{CC} = 4.5 V	-	6.4	-	pC
		V_{CC} = 5.5 V	-	7.5	-	pC

11.3. Test circuits

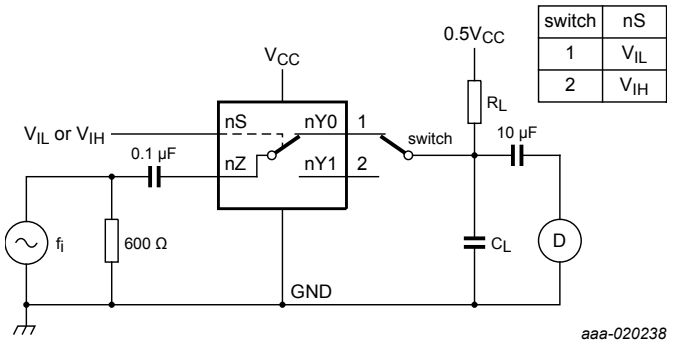
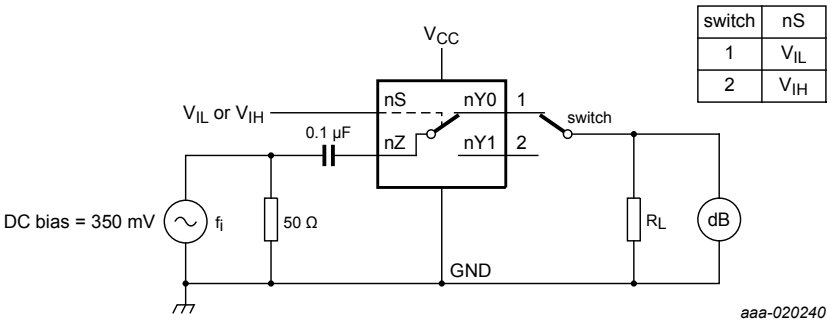
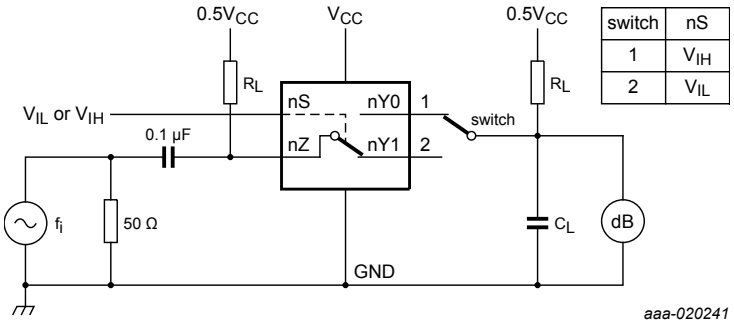


Fig. 18. Test circuit for measuring total harmonic distortion



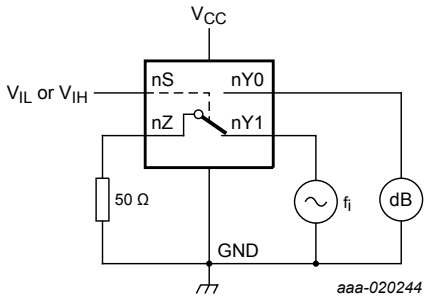
Adjust f_i voltage to obtain 0 dBm level at output. Increase f_i frequency until dB meter reads -3 dB.

Fig. 19. Test circuit for measuring the frequency response when switch is in ON-state



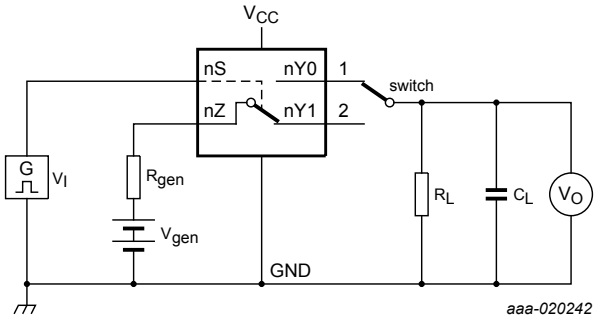
Adjust f_i voltage to obtain 0 dBm level at input.

Fig. 20. Test circuit for measuring isolation (OFF-state)

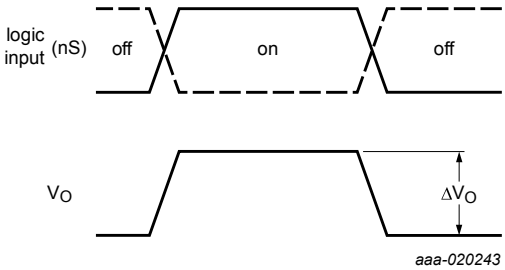


Adjust f_i voltage to obtain 0 dBm level at input.

Fig. 21. Test circuit for measuring crosstalk



a. Test circuit



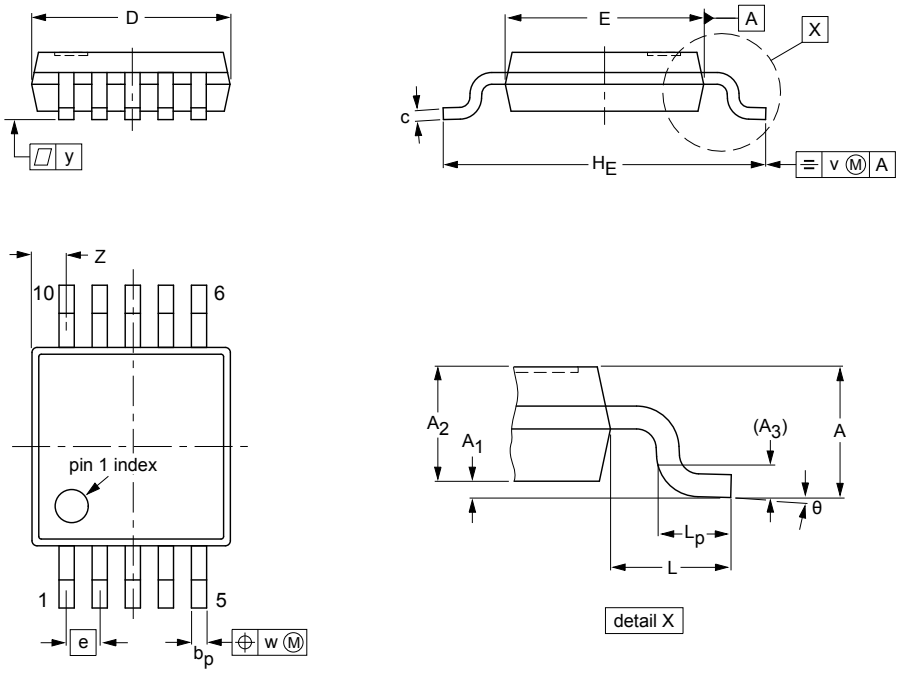
b. Input and output pulse definitions

$Q_{inj} = \Delta V_O \times C_L$.
ΔV_O = output voltage variation.
R_{gen} = generator resistance.
V_{gen} = generator voltage.

Fig. 22. Test circuit for measuring charge injection

12. Package outline

TSSOP10: plastic thin shrink small outline package; 10 leads; body width 3 mm **SOT552-1**



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	$D^{(1)}$	$E^{(2)}$	e	H_E	L	L_p	v	w	y	$Z^{(1)}$	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.15	0.23 0.15	3.1 2.9	3.1 2.9	0.5	5.0 4.8	0.95	0.7 0.4	0.1	0.1	0.1	0.67 0.34	6° 0°

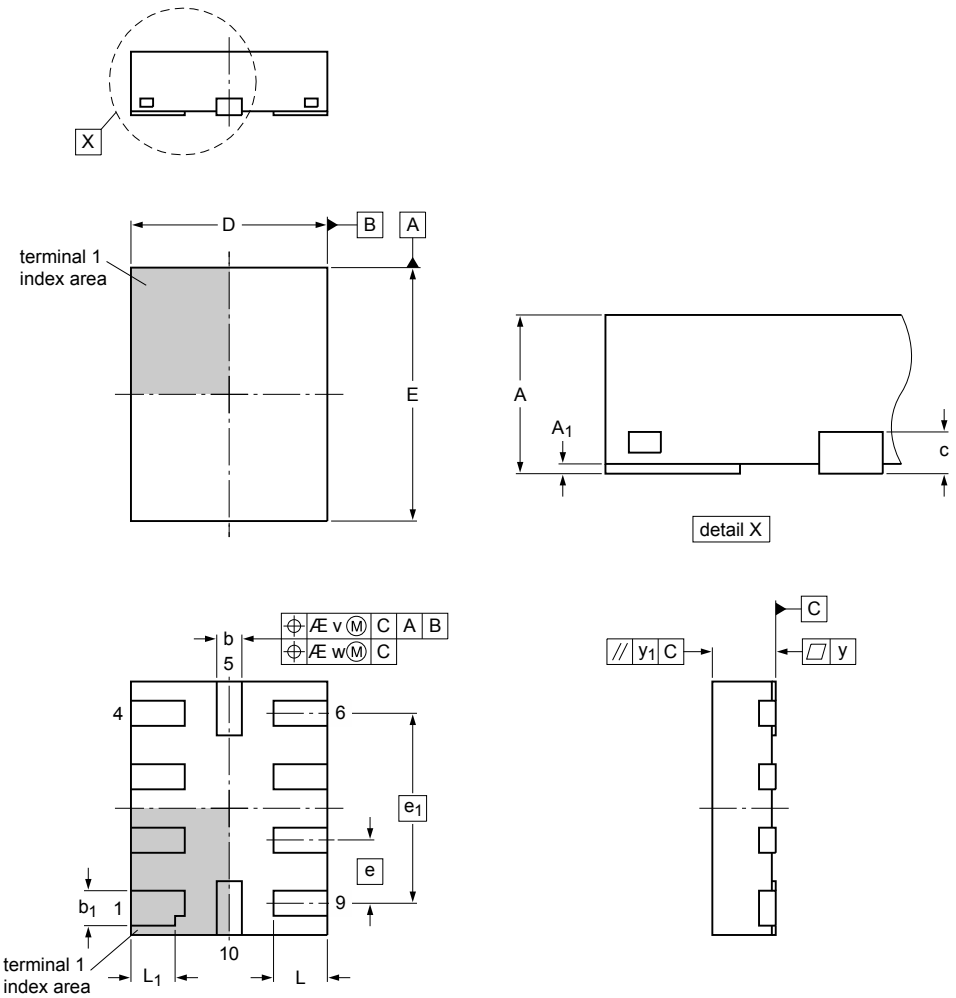
Notes

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 VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT552-1						~~99-07-29~~ 03-02-18

Fig. 23. Package outline SOT552-1 (TSSOP10)

XQFN10: plastic, extremely thin quad flat package; no leads; 10 terminals; body 1.55 x 2.00 x 0.50 mm **SOT1049-3**



Dimensions

Unit[1]		A	A_1	b	b_1	c	D	E	e	e_1	L	L_1	v	w	y	y_1
mm	max	0.5	0.05	0.25	0.33		1.65	2.1			0.48	0.40				
	nom			0.20	0.28	0.127	1.55	2.0	0.5	1.5	0.43	0.35	0.1	0.05	0.05	0.05
	min		0.00	0.15	0.23		1.45	1.9			0.38	0.30				

Note

1. Plastic or metal protrusions of 0.075 mm maximum per side are not included.

sot1049-3_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT1049-3	- - -	MO255	- - -			~~10-12-06~~ 11-03-30

Fig. 24. Package outline SOT1049-3 (XQFN10)

13. Abbreviations

Table 13. Abbreviations

Acronym	Description
CDM	Charged Device Model
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

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC2G3157 v.3	20190325	Product data sheet	-	74LVC2G3157 v.2
Modifications:	• The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. • Legal texts have been adapted to the new company name where appropriate.			
74LVC2G3157 v.2	20161215	Product data sheet	-	74LVC2G3157 v.1
Modifications:	• Table 7: The maximum limits for leakage current and supply current have changed.			
74LVC2G3157 v.1	20151214	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.

[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 https://www.nexperia.com.

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Date of release: 25 March 2019

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