74LVC1G3157

10 Ohm single-pole double-throw analog switch

Rev. 10 — 13 April 2023

Product data sheet

1. General description

The 74LVC1G3157 is a single-pole double-throw analog switch with a digital select input (S), two independent inputs/outputs (Y0 and Y1) and a common input/output (Z). 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
- Break-before-make switching
- · High noise immunity
- CMOS low power dissipation
- TTL interface compatibility at 3.3 V
- Latch-up performance meets requirements of JESD 78 Class I
- ESD protection:
 - HBM EIA/JESD22-A114-A exceeds 2000V
 - MM EIA/JESD22-A115-A exceeds 200V
- Overvoltage tolerant control inputs to 5.5 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C



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3. Ordering information

Table 1. Ordering information

Type number	Package							
	Temperature range	Name	Description	Version				
74LVC1G3157GW	-40 °C to +125 °C	TSSOP6	plastic thin shrink small outline package; 6 leads; body width 1.25 mm	SOT363-2				
74LVC1G3157GV	-40 °C to +125 °C	SC-74; TSOP6	plastic surface-mounted package; 6 leads	<u>SOT457</u>				
74LVC1G3157GM	-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>				
74LVC1G3157GN	-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>				
74LVC1G3157GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202				
74LVC1G3157GX	-40 °C to +125 °C	X2SON6	plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm	SOT1255-2				

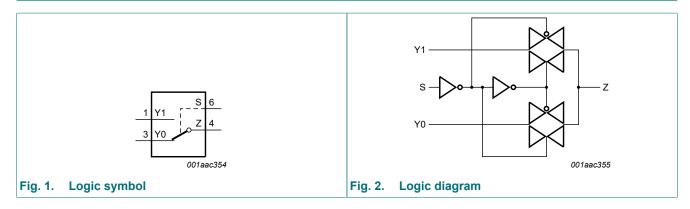
4. Marking

Table 2. Marking

Type number	Marking code[1]
74LVC1G3157GW	YJ
74LVC1G3157GV	YJ
74LVC1G3157GM	YJ
74LVC1G3157GN	YJ
74LVC1G3157GS	YJ
74LVC1G3157GX	YJ

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

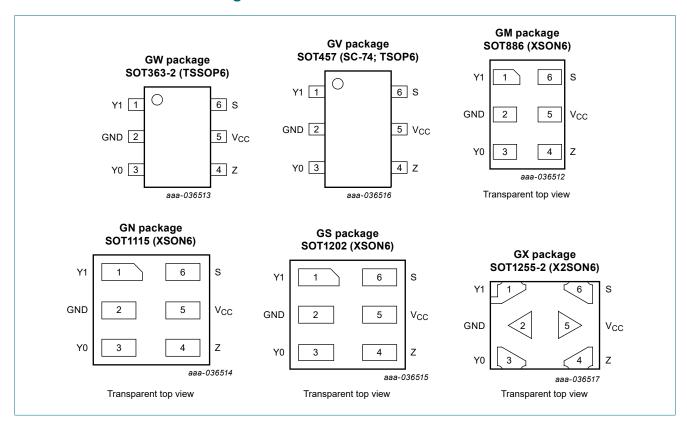
5. Functional diagram



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6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

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

7. Functional description

Table 4. Function table

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

Input S	Channel on
L	Y0
Н	Y1

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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	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	-50	-	mA
I _{SK}	switch clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	-	±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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ [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 SOT363-2 (TSSOP6) package: P_{tot} derates linearly with 3.7 mW/K above 83 °C.
 - For SOT457 (SC-74; TSOP6) package: P_{tot} derates linearly with 4.1 mW/K above 89 °C.
 - For SOT886 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.
 - For SOT1115 (XSON6) package: Ptot 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.
 - For SOT1255-2 (X2SON6) package: Ptot derates linearly with 3.3 mW/K above 75 °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	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.

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10. Static characteristics

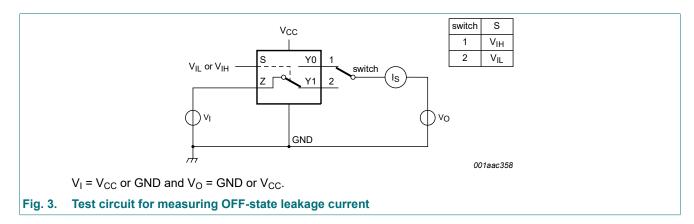
Table 7. Static characteristics

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

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	Unit	
				Min	Typ [1]	Max	Min	Max	
V _{IH}	HIGH-level 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} = 3 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 × V _{CC}	-	0.35 × V _{CC}	V
	voltage	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		-	-	0.3 × V _{CC}		0.3 × V _{CC}	V
l ₁	input leakage current	pin S; 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. 3</u>	[2]	-	±0.1	±0.2	-	±0.5	μΑ
I _{S(ON)}	ON-state leakage current	V _{CC} = 5.5 V; see <u>Fig. 4</u>	[2]	-	±0.1	±1	-	±2	μΑ
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	μΑ
ΔI _{CC}	additional supply current	pin S; $V_I = V_{CC} - 0.6 V$; $V_{CC} = 5.5 V$; $V_{SW} = GND \text{ or } V_{CC}$	[2]	-	5	500	-	500	μΑ
Cı	input capacitance			-	2.5	-	-	-	pF
C _{S(OFF)}	OFF-state capacitance			-	6.0	-	-	-	pF
C _{S(ON)}	ON-state capacitance			-	18	-	-	-	pF

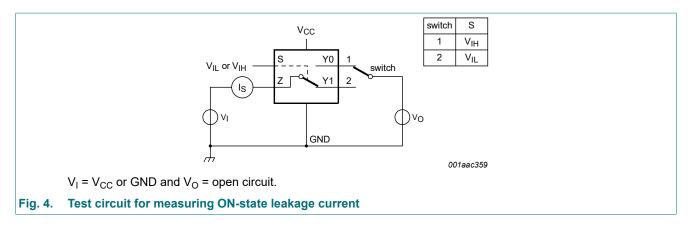
^[1] Typical values are measured at T_{amb} = 25 °C.

10.1. Test circuits



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

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10.2. ON resistance

Table 8. ON resistance

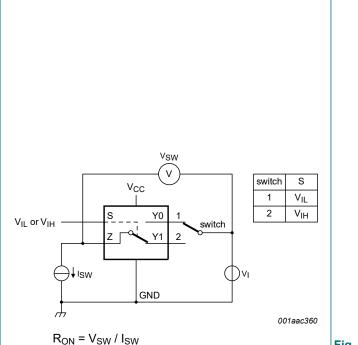
At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graphs see Fig. 6 to Fig. 11.

Symbol	Parameter Conditions		-40	°C to +8	5°C	-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
R _{ON(peak)}		V _I = GND to V _{CC} ; see <u>Fig. 5</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
ON(Iall)	ON resistance	V _I = GND; see <u>Fig. 5</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. 5</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

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

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10.3. ON resistance test circuit and graphs



Test circuit for measuring ON resistance Fig. 5.

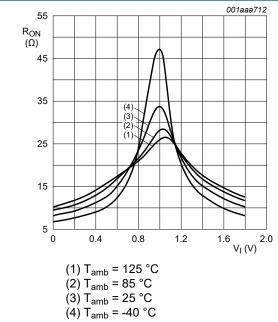
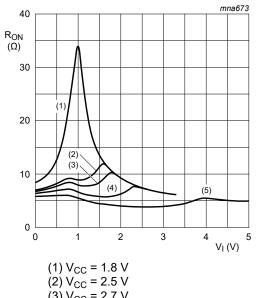


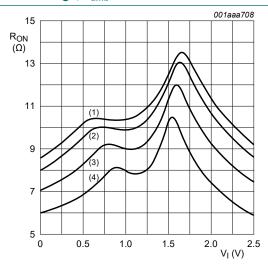
Fig. 7. ON resistance as a function of input voltage; $V_{CC} = 1.8 \text{ V}$



 $(3) V_{CC} = 2.7 V$

 $(4) V_{CC} = 3.3 V$ $(5) V_{CC} = 5.0 V$

Fig. 6. Typical ON resistance as a function of input voltage; T_{amb} = 25 °C



(1) T_{amb} = 125 °C

(2) T_{amb} = 85 °C

(3) $T_{amb} = 25 \,^{\circ}\text{C}$ (4) $T_{amb} = -40 \,^{\circ}\text{C}$

Fig. 8. ON resistance as a function of input voltage; $V_{CC} = 2.5 V$

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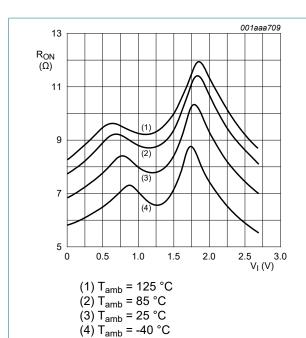
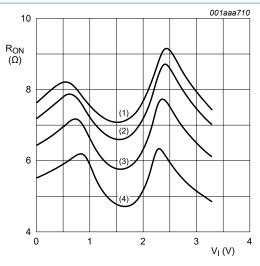


Fig. 9. ON resistance as a function of input voltage; $V_{CC} = 2.7 \text{ V}$



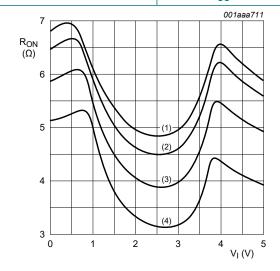
(1) $T_{amb} = 125 \, ^{\circ}C$

(2) $T_{amb} = 85 \, ^{\circ}C$

(3) $T_{amb} = 25 \, ^{\circ}C$

(4) $T_{amb} = -40 \, ^{\circ}C$

Fig. 10. ON resistance as a function of input voltage; $V_{CC} = 3.3 \text{ V}$



(1) $T_{amb} = 125 \, ^{\circ}C$

(2) $T_{amb} = 85 \, ^{\circ}C$

(3) $T_{amb} = 25 \, ^{\circ}C$

(4) $T_{amb} = -40 \, ^{\circ}C$

Fig. 11. ON resistance as a function of input voltage; $V_{CC} = 5.0 \text{ V}$

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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	meter Conditions		-40	°C to +8	5 °C	-40 °C to	Unit	
				Min	Typ [1]	Max	Min	Max	
t _{pd}	propagation	Z to Yn or Yn to Z; see Fig. 12	[2] [3]						
	delay	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 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} enab	enable time	S to Yn; see Fig. 13	[4]						
		V _{CC} = 1.65 V to 1.95 V		3.1	8.7	20.8	3.1	22.0	ns
		V _{CC} = 2.3 V to 2.7 V		2.2	5.3	11.5	2.2	12.5	ns
		V _{CC} = 2.7 V		2.1	4.9	9.3	2.1	10.2	ns
		V _{CC} = 3 V to 3.6 V		1.8	4.0	7.6	1.8	9.0	ns
		V _{CC} = 4.5 V to 5.5 V		1.5	3.0	5.7	1.5	6.1	ns
t _{dis}	disable time	S to Yn; see Fig. 13	[5]						
		V _{CC} = 1.65 V to 1.95 V		3.0	6.0	11.4	3.0	11.7	ns
		V _{CC} = 2.3 V to 2.7 V		2.1	4.4	7.3	2.1	7.6	ns
		V _{CC} = 2.7 V		2.1	4.2	6.3	2.1	6.6	ns
		V _{CC} = 3 V to 3.6 V		1.7	3.6	5.3	1.7	5.9	ns
		V _{CC} = 4.5 V to 5.5 V		1.3	2.9	3.8	1.3	4.3	ns
t _{b-m}	break-before-	see <u>Fig. 14</u>	[6]						
	make time	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

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

 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 driven by an ideal voltage source (zero output impedance).

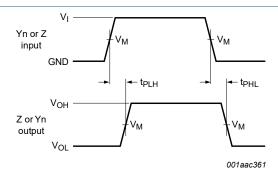
 t_{en} is the same as t_{PZH} and $t_{\text{PZL}}.$

t_{dis} is the same as t_{PLZ} and t_{PHZ}.

Break-before-make specified by design.

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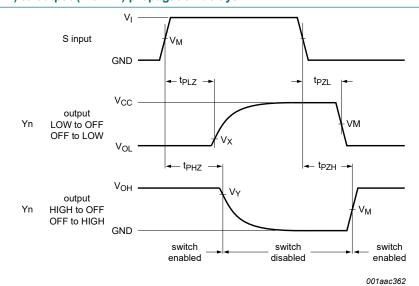
11.1. Waveforms and test circuits



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. 12. Input (Yn or Z) to output (Z or Yn) propagation delays



Measurement points are given in $\underline{\text{Table 10}}$.

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

Fig. 13. Enable and disable times

Table 10. Measurement points

Supply voltage	Input	Output	Output					
V _{CC}	V _M	V _M	V _X	V _Y				
1.65 V to 5.5 V	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.3 V	V _{OH} - 0.3 V				

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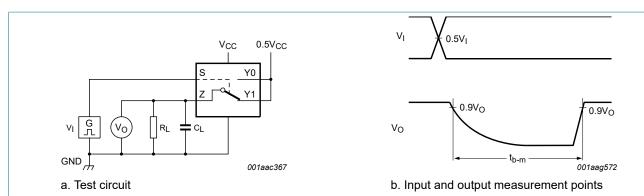
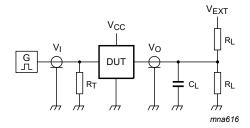


Fig. 14. Test circuit for measuring break-before-make timing



Test data is given in Table 11.

Definitions test circuit:

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator;

C_L = Load capacitance including jig and probe capacitance;

R_L = Load resistance;

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

Fig. 15. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	Input		Load		V _{EXT}		
V _{CC}	V _I	t _r , t _f	CL	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	2 × V _{CC}
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	50 pF	500 Ω	open	GND	2 × V _{CC}
2.7 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2 × V _{CC}
3 V to 3.6 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2 × V _{CC}
4.5 V to 5.5 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2 × V _{CC}

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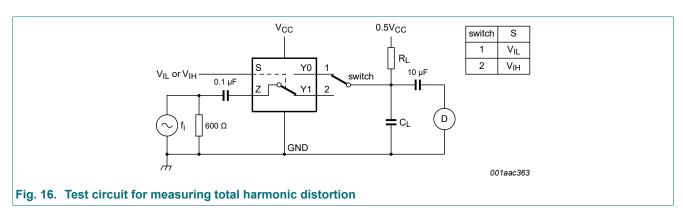
11.2. Additional dynamic characteristics

Table 12. Additional dynamic characteristics

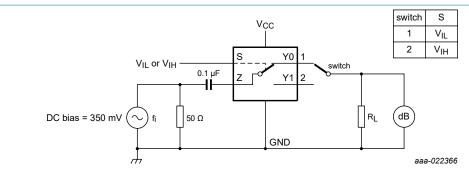
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); T_{amb} = 25 °C.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD	total harmonic distortion	f_i = 600 Hz to 20 kHz; R_L = 600 Ω; C_L = 50 pF; V_I = 0.5 V (p-p); see Fig. 16				
		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 <u>Fig. 17</u>				
		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 <u>Fig. 18</u>				
		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
Q _{inj}	charge injection	C_L = 0.1 nF; V_{gen} = 0 V; R_{gen} = 0 Ω ; f_i = 1 MHz; R_L = 1 M Ω ; see Fig. 19				
		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
	1					

11.3. Test circuits

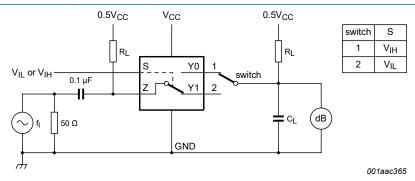


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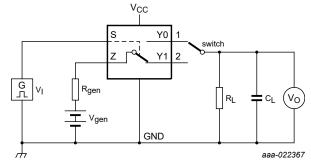
Adjust f_i voltage to obtain 0 dBm level at output. Increase f_i frequency until dB meter reads -3 dB.

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



Adjust fi voltage to obtain 0 dBm level at input.

Fig. 18. Test circuit for measuring isolation (OFF-state)



a. Test circuit

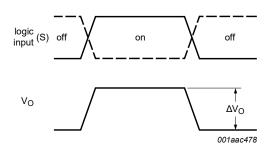
 $Q_{inj} = \Delta V_O \times C_L;$

 ΔV_O = output voltage variation;

R_{gen} = generator resistance;

V_{gen} = generator voltage.

Fig. 19. Test circuit for measuring charge injection



b. Input and output pulse definitions

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12. Package outline

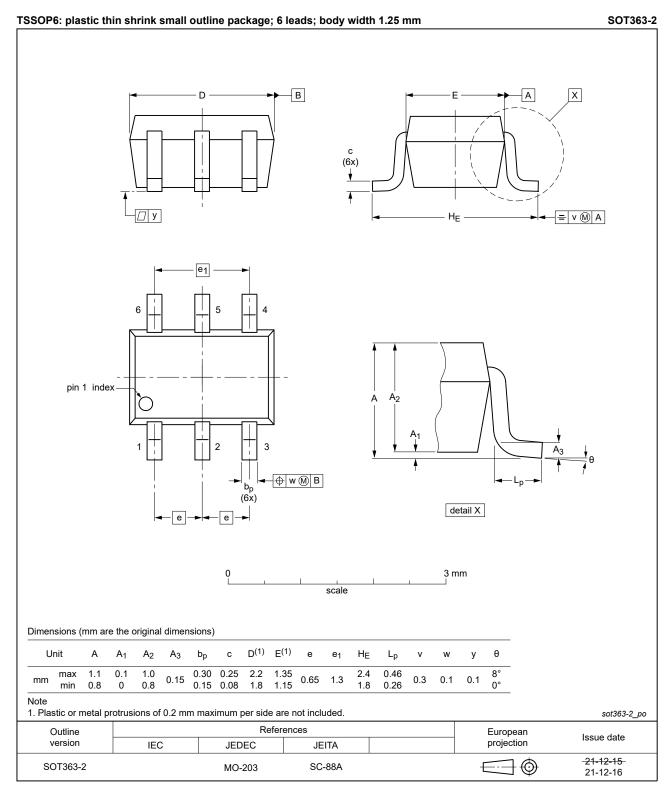


Fig. 20. Package outline SOT363-2 (TSSOP6)

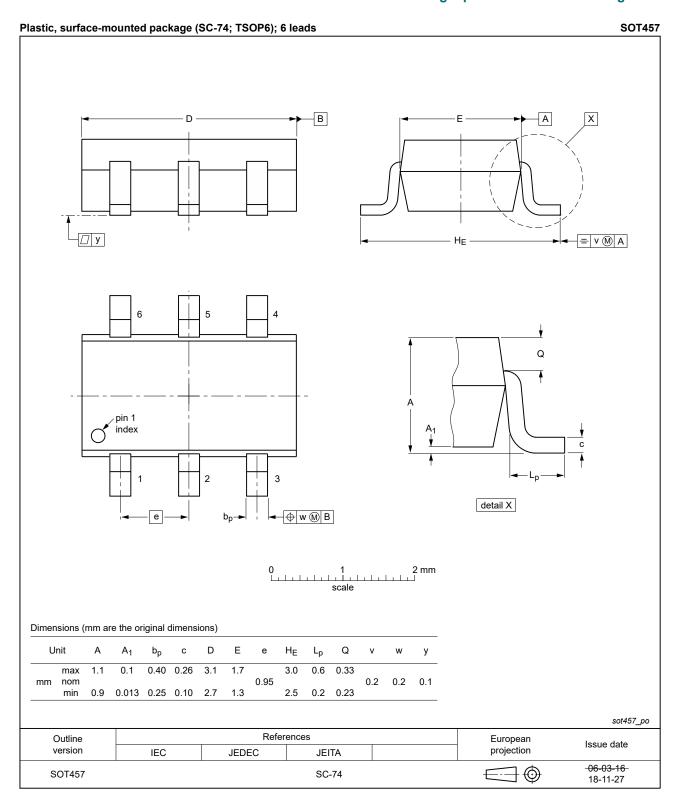


Fig. 21. Package outline SOT457 (SC-74; TSOP6)

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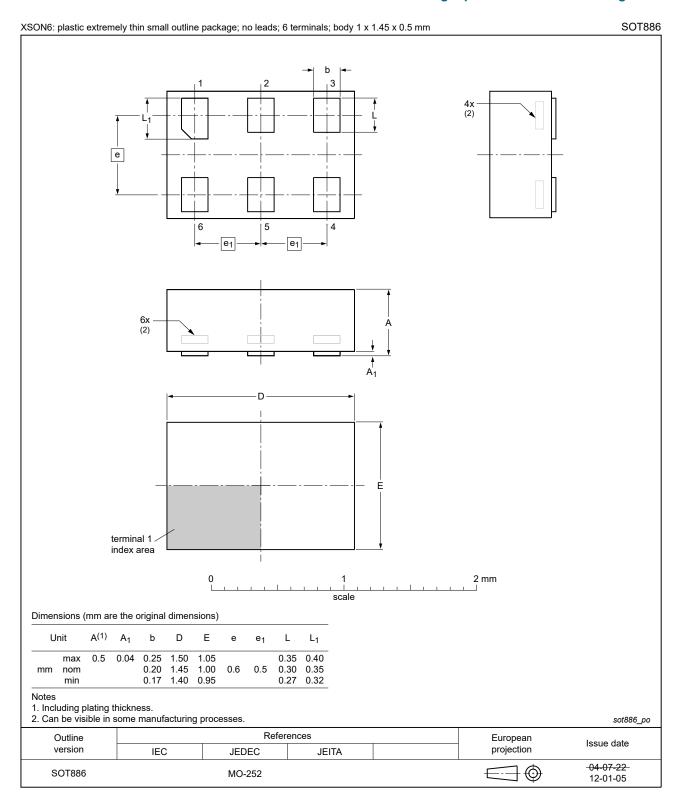


Fig. 22. Package outline SOT886 (XSON6)

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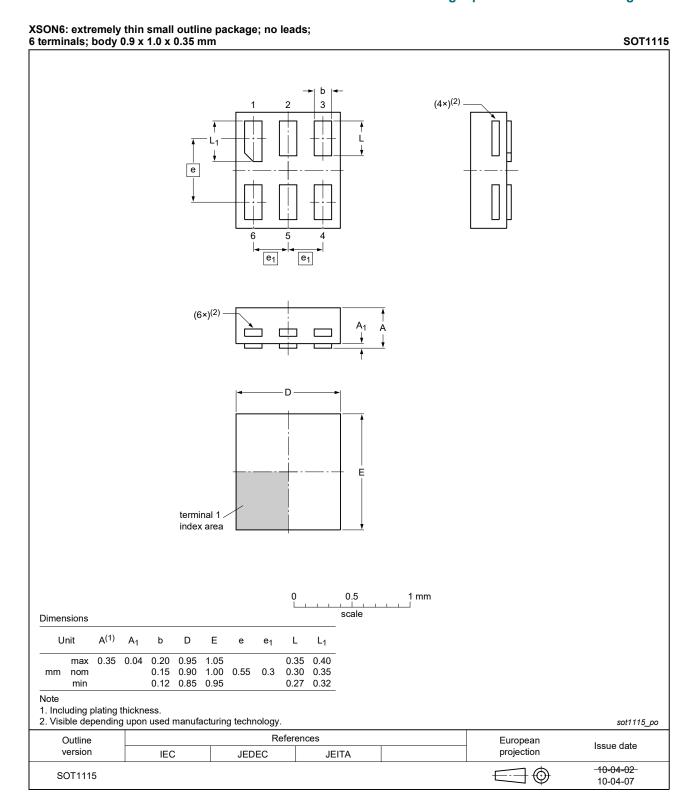


Fig. 23. Package outline SOT1115 (XSON6)

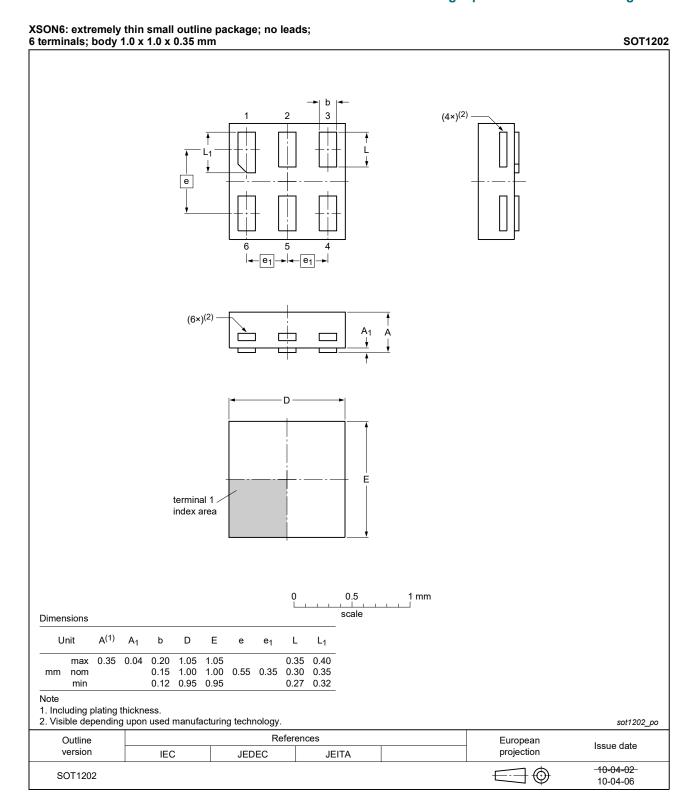


Fig. 24. Package outline SOT1202 (XSON6)

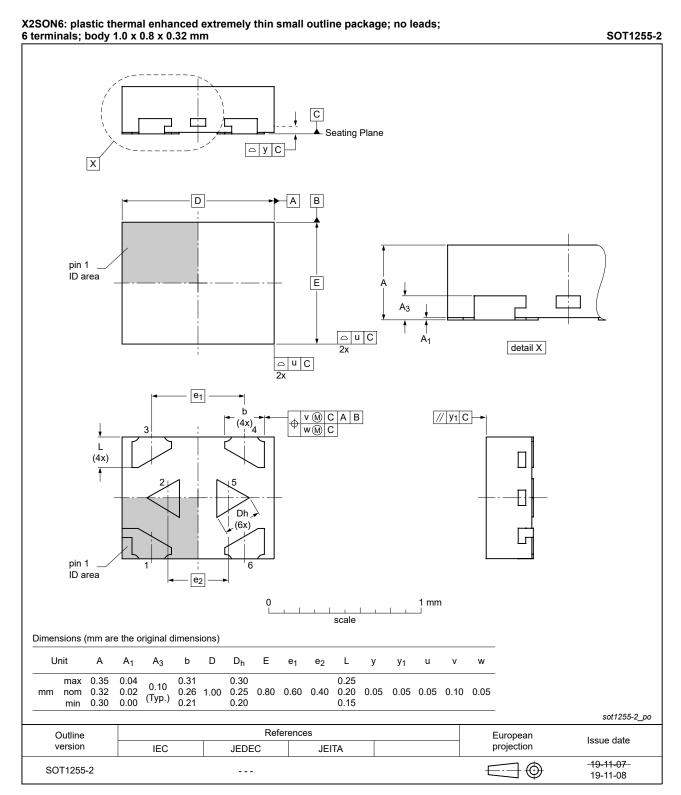


Fig. 25. Package outline SOT1255-2 (X2SON6)

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13. Abbreviations

Table 13. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	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		
74LVC1G3157 v.10	20230411	Product data sheet	-	74LVC1G3157 v.9		
Modifications:		 Package SOT1255 (X2SON6) changed to SOT1255-2 (X2SON6). Updated descriptive title in line with 74LVC2G3157. 				
74LVC1G3157 v.9	20230123	Product data sheet	-	74LVC1G3157 v.8		
Modifications:	Type number	Type number 74LVC1G3157GF (SOT891/XSON6) removed.				
74LVC1G3157 v.8	20220204	Product data sheet	-	74LVC1G3157 v.7		
Modifications:	 <u>Section 1</u> u <u>Table 5</u>: De 	 Package SOT363 (SC-88) changed to SOT363-2 (TSSOP6). <u>Section 1</u> updated. <u>Table 5</u>: Derating values for P_{tot} total power dissipation updated. Package outline drawing <u>SOT457</u> updated. 				
74LVC1G3157 v.7	20170214	Product data sheet	-	74LVC1G3157 v.6		
Modifications:	Table 7: The	 Table 7: The maximum limits for leakage current and supply current have changed. 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. 				
	The format guidelines of	of this data sheet has be of Nexperia.	een redesigned to co	omply with the identity		
74LVC1G3157 v.6	The format guidelines of	of this data sheet has be of Nexperia.	een redesigned to co	omply with the identity		
74LVC1G3157 v.6	 The format guidelines of Legal texts 20160512 Added type Table 9: Min Table 12 and Table 12 	of this data sheet has be of Nexperia. have been adapted to th	een redesigned to come new company nar - GX (SOT1255 packalues enable and disaltest circuit for f _(-3dB)	me where appropriate. 74LVC1G3157 v.5 age) able times revised.		
74LVC1G3157 v.6 Modifications:	 The format guidelines of Legal texts 20160512 Added type Table 9: Min Table 12 and Table 12 	of this data sheet has been for Nexperia. have been adapted to the Product data sheet number 74LVC1G31576 nimum and maximum vand Fig. 17: Condition and	een redesigned to come new company nar - GX (SOT1255 packalues enable and disaltest circuit for f _(-3dB)	me where appropriate. 74LVC1G3157 v.5 age) able times revised.		
74LVC1G3157 v.6 Modifications: 74LVC1G3157 v.5	 The format guidelines of Legal texts 20160512 Added type Table 9: Min Table 12 an Fig. 19: Test 20121206 	of this data sheet has been for Nexperia. have been adapted to the Product data sheet number 74LVC1G31576 nimum and maximum valued Fig. 17: Condition and to circuit for charge inject	een redesigned to come new company nare - GX (SOT1255 packalues enable and disaltest circuit for f _(-3dB) ion revised.	me where appropriate. 74LVC1G3157 v.5 age) able times revised.		
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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".
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