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74LVC1G3157

2-channel analog multiplexer/demultiplexer Rev. 7 — 14 February 2017

Product data sheet

1 **General description**

The 74LVC1G3157 provides one analog multiplexer/demultiplexer with one digital select input (S), two independent inputs/outputs (Y0, Y1) and a common input/output (Z).

Schmitt trigger action at the select input 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.

Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- · Very low ON resistance:
 - -7.5Ω (typical) at $V_{CC} = 2.7 V$
 - -6.5Ω (typical) at $V_{CC} = 3.3 V$
 - -6Ω (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 meets requirements of JESD 78 Class I
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Control input accepts voltages up to 5.5 V
- · Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C



3 Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC1G3157GW	-40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363
74LVC1G3157GV	-40 °C to +125 °C	SC-74	plastic surface-mounted package (TSOP6); 6 leads	SOT457
74LVC1G3157GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886
74LVC1G3157GF	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1 × 0.5 mm	SOT891
74LVC1G3157GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115
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 extremely thin small outline package; no leads; 6 terminals; body 1 × 0.8 × 0.35 mm	SOT1255

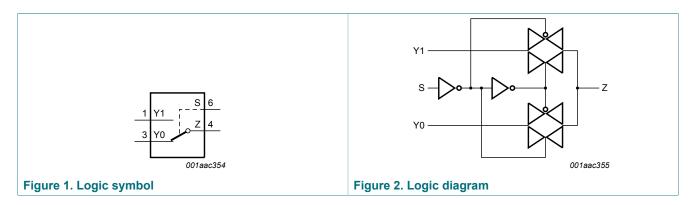
4 Marking

Table 2. Marking

Type number	Marking code ^[1]
74LVC1G3157GW	YJ
74LVC1G3157GV	YJ
74LVC1G3157GM	YJ
74LVC1G3157GF	YJ
74LVC1G3157GN	YJ
74LVC1G3157GS	YJ
74LVC1G3157GX	YJ

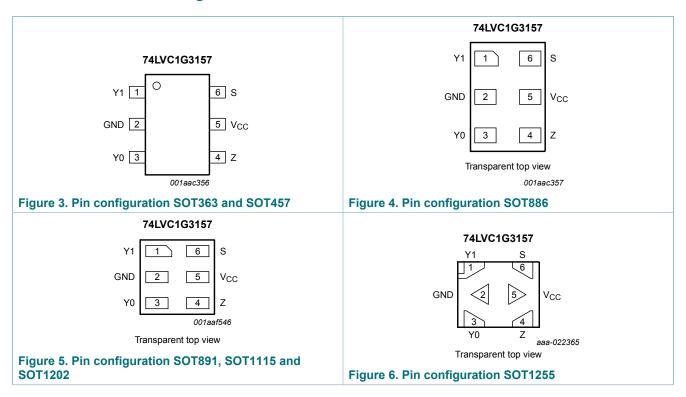
^[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5 Functional diagram



6 Pinning information

6.1 Pinning



6.2 Pin description

Table 3. Pin description

Table of Fin accompact							
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 ^[1]

Input S	Channel on
L	Y0
Н	Y1

^[1] H = HIGH voltage level;L = LOW voltage level.

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	$V_{SW} > -0.5 \text{ V or } V_{SW} < V_{CC} + 0.5 \text{ V}$	-	±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.

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^[2] The minimum and maximum switch voltage ratings may be exceeded if the switch clamping current rating is observed.

^[3] For SC-88 and SC-74 packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K. For XSON6 and X2SON6 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

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
		$V_{CC} = 2.7 \text{ V to } 5.5 \text{ V}$ [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.

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	V _{CC} = 1.65 V to 1.95 V		0.65V _{CC}	-	-	0.65V _{CC}	-	V
	input 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		0.7V _{CC}	-	-	0.7V _{CC}	-	V
V_{IL}	LOW-level	V _{CC} = 1.65 V to 1.95 V		-	-	0.35V _{CC}	-	0.35V _{CC}	V
	input 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		-	-	0.3V _{CC}		0.3V _{CC}	V
l _l	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	μΑ
I _{S(OFF)}	OFF-state leakage current	V _{CC} = 5.5 V; see <u>Figure 7</u>	[2]	-	±0.1	±0.2	-	±0.5	μΑ
I _{S(ON)}	ON-state leakage current	V _{CC} = 5.5 V; see <u>Figure 8</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
Δl _{CC}	additional supply current	pin S; $V_I = V_{CC} - 0.6 \text{ V}$; $V_{CC} = 5.5 \text{ V}$; $V_{SW} = \text{GND or } V_{CC}$	[2]	-	5	500	-	500	μΑ
Cı	input capacitance			-	2.5	-	-	-	pF

74LVC1G3157

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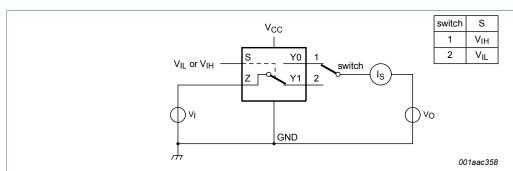
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^[2] Applies to control signal levels.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to	Unit	
			Min	Typ ^[1]	Max	Min	Max	
C _{S(OFF)}	OFF-state capacitance		-	6.0	-	-	-	pF
C _{S(ON)}	ON-state capacitance		-	18	-	-	-	pF

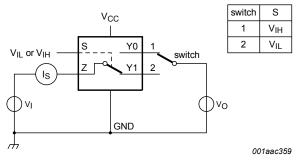
- Typical values are measured at T $_{\rm amb}$ = 25 $^{\circ}C.$ These typical values are measured at V $_{\rm CC}$ = 3.3 V

10.1 Test circuits



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

Figure 7. Test circuit for measuring OFF-state leakage current



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

Figure 8. Test circuit for measuring ON-state leakage current

10.2 ON resistance

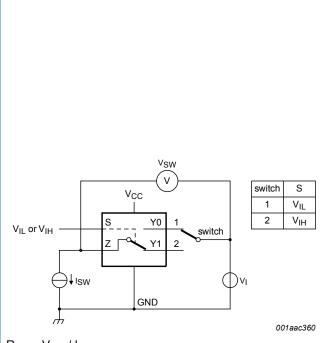
Table 8. ON resistance

At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graphs see Figure 10 to Figure 15.

Symbol	Parameter	rameter Conditions		°C to +8	5°C	-40 °C to	Unit	
			Min	Typ ^[1]	Max	Min	Max	
R _{ON(peak)}	ON resistance	V _I = GND to V _{CC} ; see <u>Figure 9</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>Figure 9</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>Figure 9</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

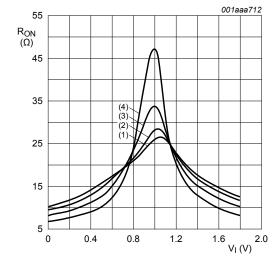
Typical values are measured at T_{amb} = 25 °C and nominal V_{CC} . Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V_{CC} and temperature.

10.3 ON resistance test circuit and graphs



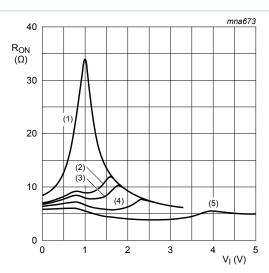
 $R_{ON} = V_{SW} / I_{SW}$

Figure 9. Test circuit for measuring ON resistance



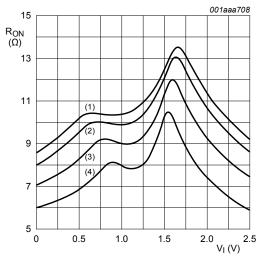
- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40$ °C.

Figure 11. ON resistance as a function of input voltage; $V_{CC} = 1.8 \text{ V}$



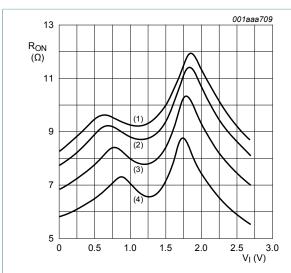
- (1) $V_{CC} = 1.8 \text{ V}$.
- (2) $V_{CC} = 2.5 \text{ V}$.
- (3) $V_{CC} = 2.7 V$.
- (4) $V_{CC} = 3.3 \text{ V}$.
- (5) $V_{CC} = 5.0 \text{ V}.$

Figure 10. Typical ON resistance as a function of input voltage; T_{amb} = 25 °C



- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

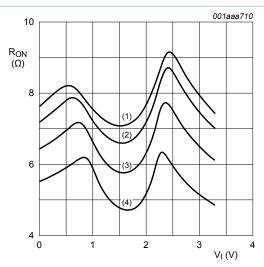
Figure 12. ON resistance as a function of input voltage; $V_{CC} = 2.5 \text{ V}$



- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

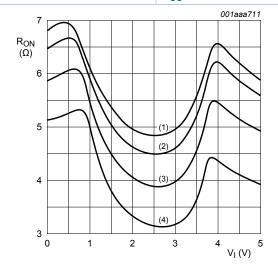
 $V_{CC} = 2.7 V$

Figure 13. ON resistance as a function of input voltage;



- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

Figure 14. 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) $T_{amb} = -40 \, ^{\circ}C$.

Figure 15. 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 Figure 19.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to +125 °C \		Unit
				Min	Typ ^[1]	Max	Min	Max	
t _{pd}	propagation	Z to Yn or Yn to Z; see Figure 16	[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		-	-	8.0	-	1.5	ns
		V _{CC} = 4.5 V to 5.5 V		-	-	0.6	-	1.0	ns
t _{en}	enable time	S to Yn; see Figure 17	[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 Figure 17	[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 Figure 18	[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} . [1]

^[2] [3]

h_{pd} is the same as t_{PLH} and t_{PHL}.

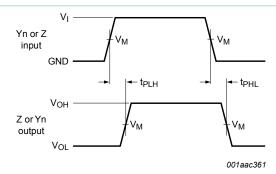
Propagation delay is the calculated RC time constant of the typical ON resistance of the switch and the specified capacitance when driven by an ideal voltage source (zero output impedance).

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

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

Break-before-make specified by design.

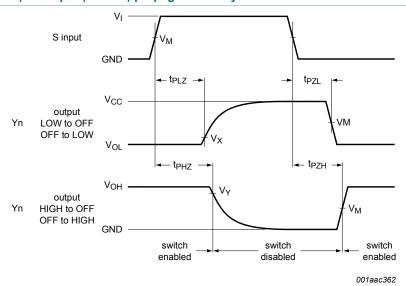
11.1 Waveforms and test circuits



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.

Figure 16. Input (Yn or Z) to output (Z or Yn) propagation delays



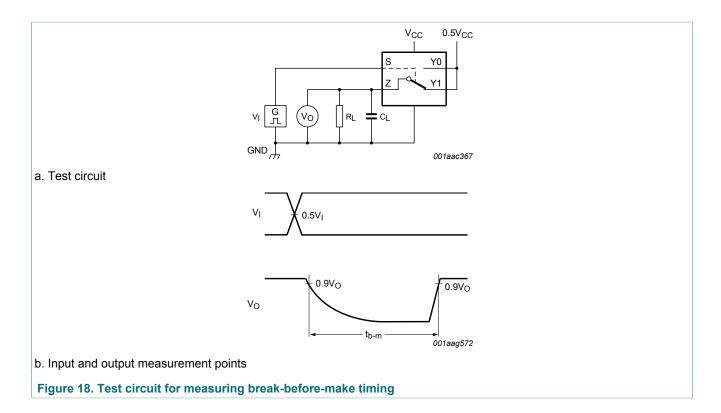
Measurement points are given in Table 10.

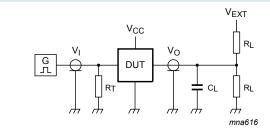
Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Figure 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 5.5 V	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.3 V	V _{OH} - 0.3 V				





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.

Figure 19. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	Input		Load		V _{EXT}		
V _{CC}	VI	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}

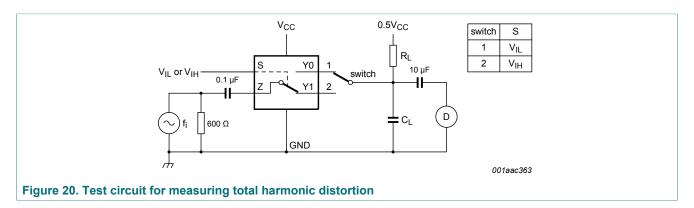
11.2 Additional dynamic characteristics

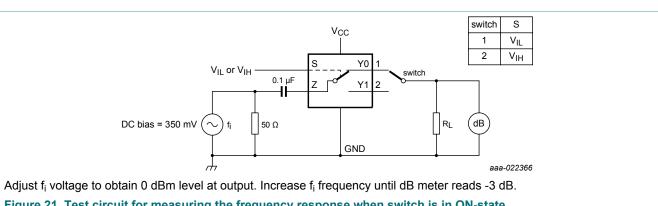
Table 12. Additional dynamic characteristics

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

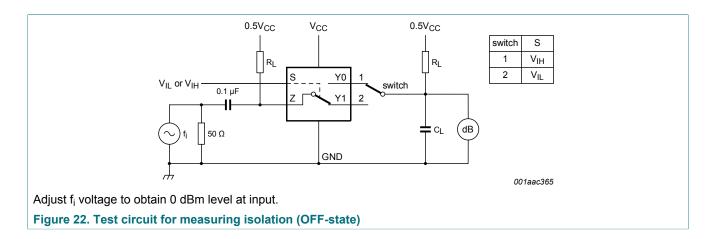
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD	total harmonic distortion	f_i = 600 Hz to 20 kHz; R _L = 600 Ω; C _L = 50 pF; V _I = 0.5 V (p-p); see <u>Figure 20</u>				
		V _{CC} = 1.65 V	-	0.260	-	%
		V _{CC} = 2.3 V	-	0.078	-	%
		V _{CC} = 3.0 V	-	0.078	-	%
		V _{CC} = 4.5 V	-	0.078	-	%
f(-3dB)	−3 dB frequency response	R_L = 50 Ω; see <u>Figure 21</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 Figure 22				
		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 <u>Figure 23</u>				
		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	-	рС
		V _{CC} = 5.5 V	-	7.5	-	рС

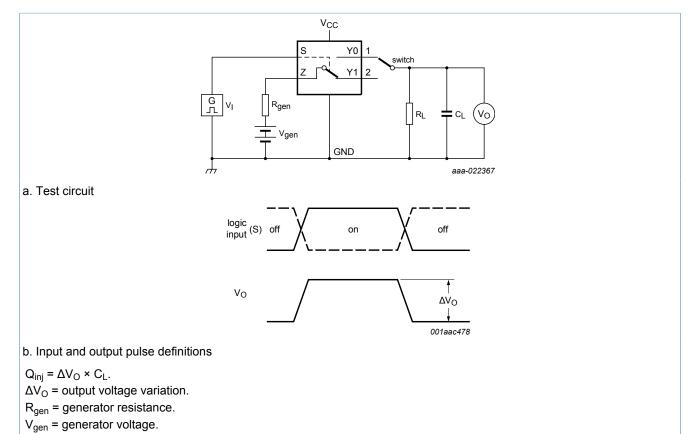
11.3 Test circuits











12 Package outline

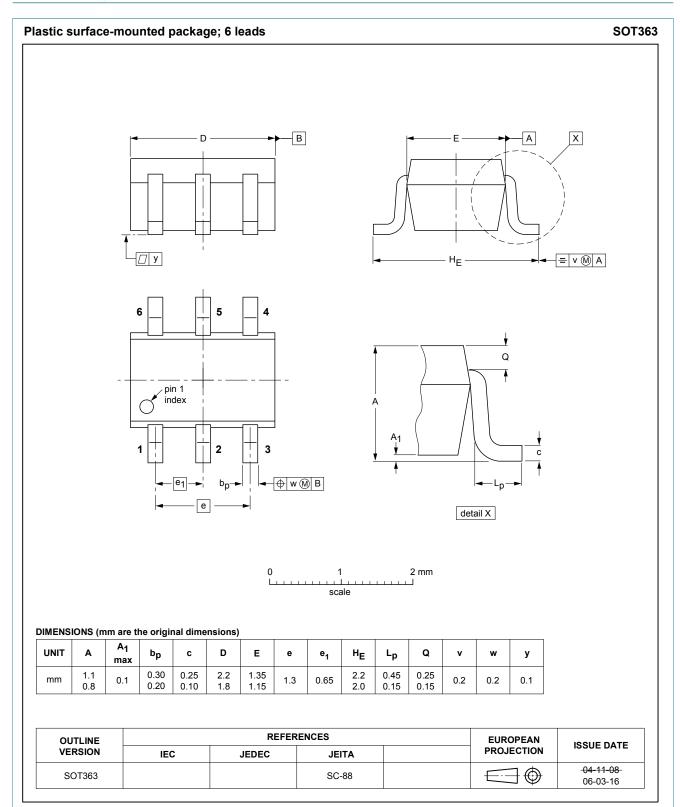
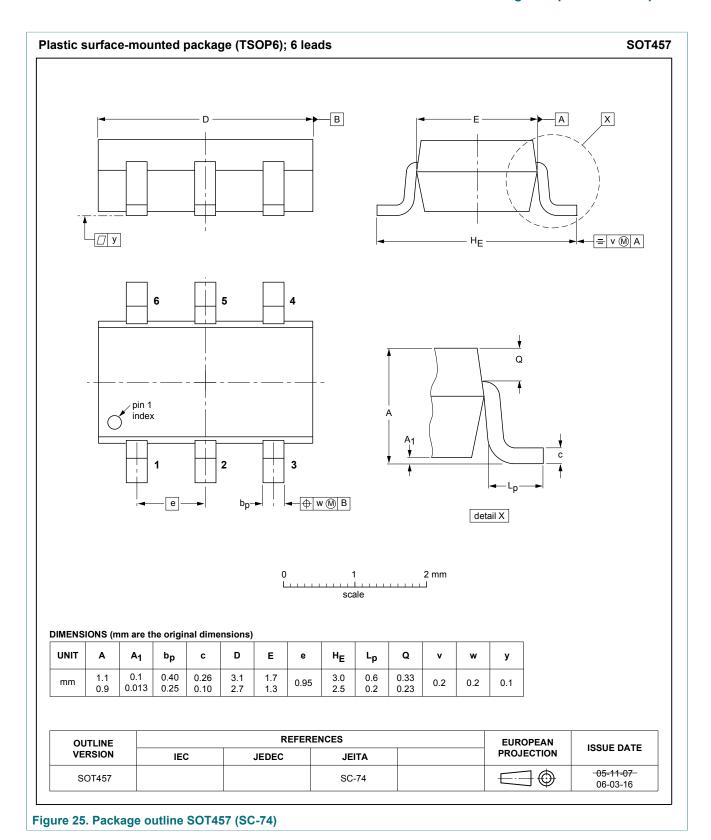
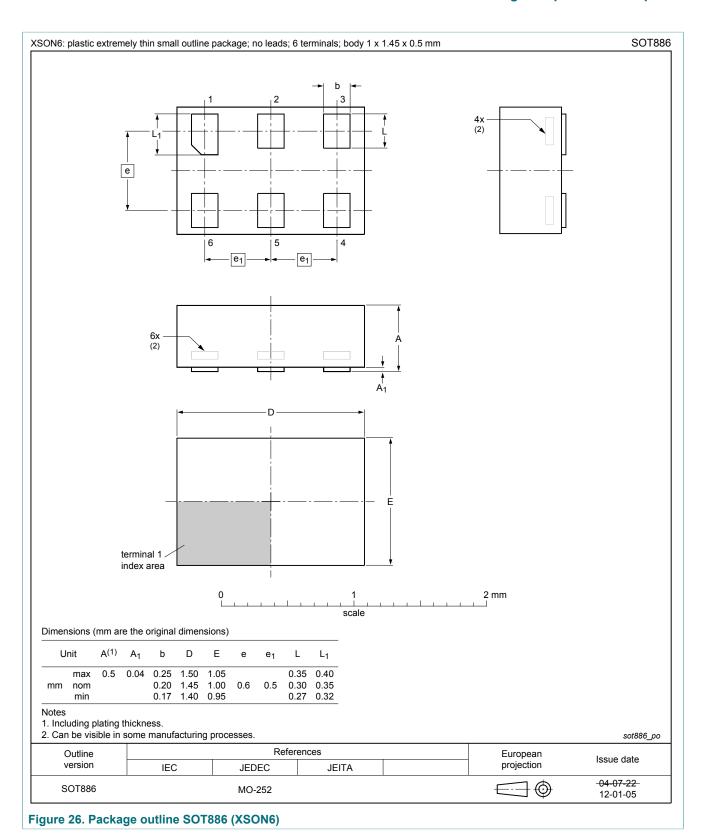


Figure 24. Package outline SOT363 (SC-88)





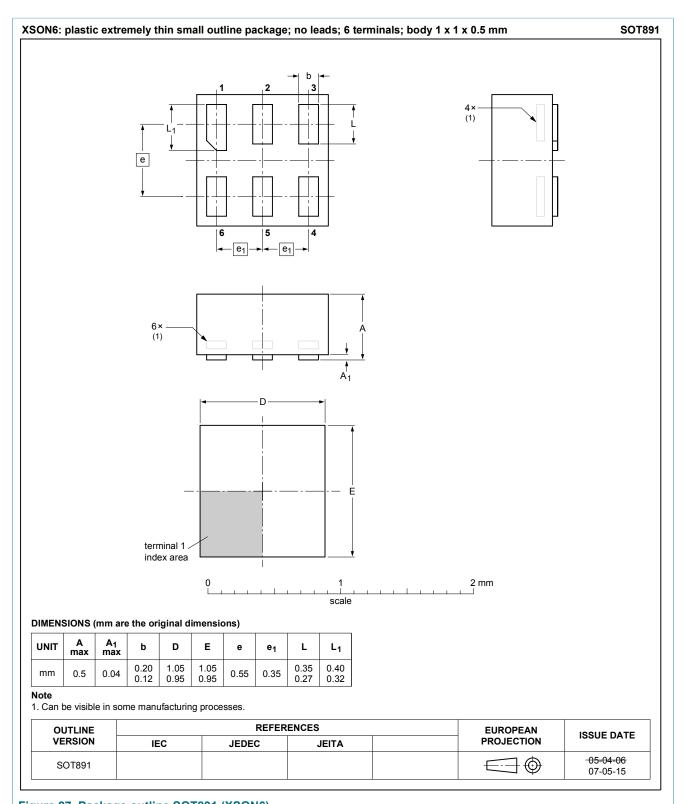
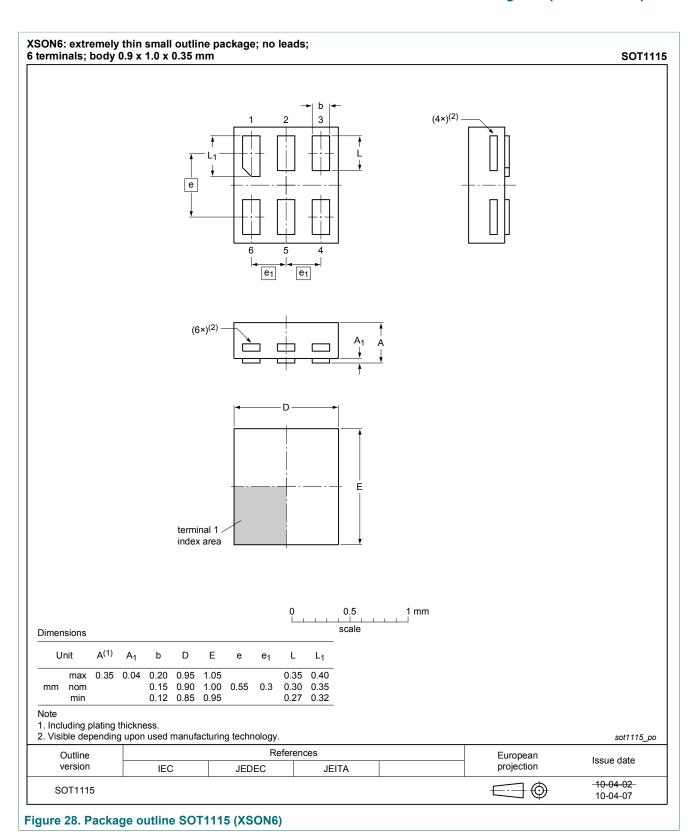
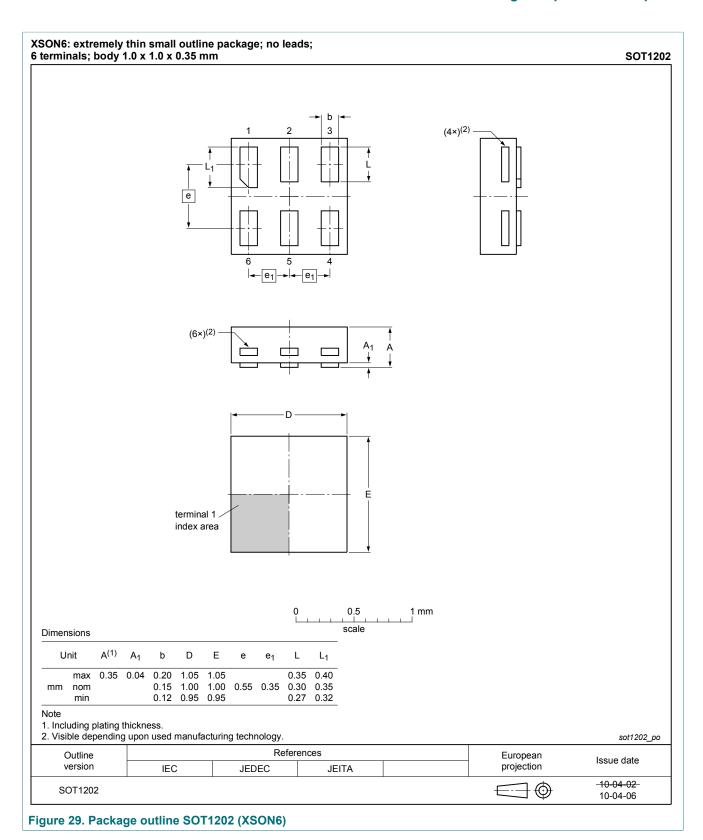
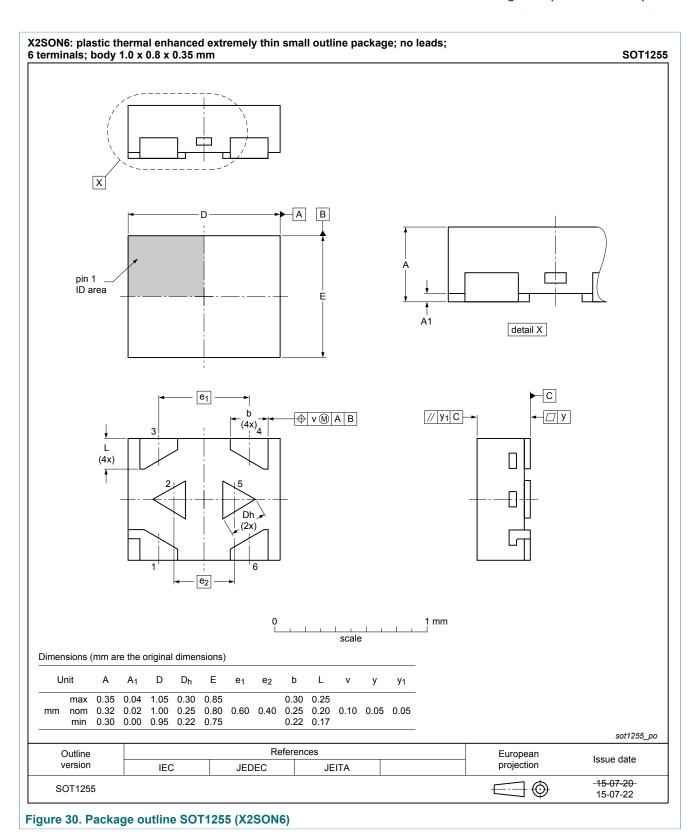


Figure 27. Package outline SOT891 (XSON6)







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

Table 14. Revision ins	story				
Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC1G3157 v.7	20170214	Product data sheet	-	74LVC1G3157 v.6	
 Modifications: 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 guideline Nexperia. Legal texts have been adapted to the new company name where appropriate. 					
74LVC1G3157 v.6	20160512	Product data sheet	-	74LVC1G3157 v.5	
 Added type number 74LVC1G3157GX (SOT1255 package) Table 9: Minimum and maximum values enable and disable times revised. Table 12 and Figure 21: Condition and test circuit for f_(-3dB) revised. Figure 23: Test circuit for charge injection revised. 					
74LVC1G3157 v.5	20121206	Product data sheet	-	74LVC1G3157 v.4	
Modifications:	Package outline	drawing of SOT886 (Figure	26) modified.		
74LVC1G3157 v.4	20111206	Product data sheet	-	74LVC1G3157 v.3	
74LVC1G3157 v.3	20100916	Product data sheet	-	74LVC1G3157 v.2	
74LVC1G3157 v.2	20070918	Product data sheet	-	74LVC1G3157 v.1	
74LVC1G3157 v.1	20050207	Product data sheet	-	-	

15 Legal information

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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.
- The term 'short data sheet' is explained in section "Definitions". [2] [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 URL http://www.nexperia.com.

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