### **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.

### 2 Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- Very low ON resistance:
  - 7.5  $\Omega$  (typical) at V<sub>CC</sub> = 2.7 V
  - 6.5  $\Omega$  (typical) at V<sub>CC</sub> = 3.3 V
  - 6  $\Omega$  (typical) at V<sub>CC</sub> = 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

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2-channel analog multiplexer/demultiplexer

## **3** Ordering information

Table 1. Ordering in	formation			
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

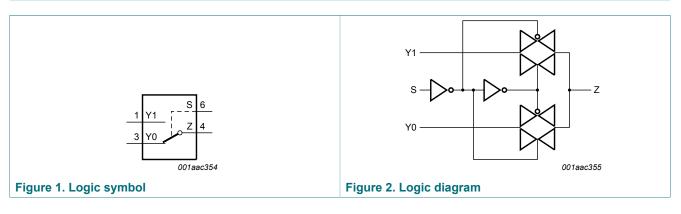
## 4 Marking

Table 2. Marking	
Type number	Marking code <sup>[1]</sup>
74LVC1G3157GW	YJ
74LVC1G3157GV	YJ
74LVC1G3157GM	YJ
74LVC1G3157GF	YJ
74LVC1G3157GN	YJ
74LVC1G3157GS	YJ
74LVC1G3157GX	YJ

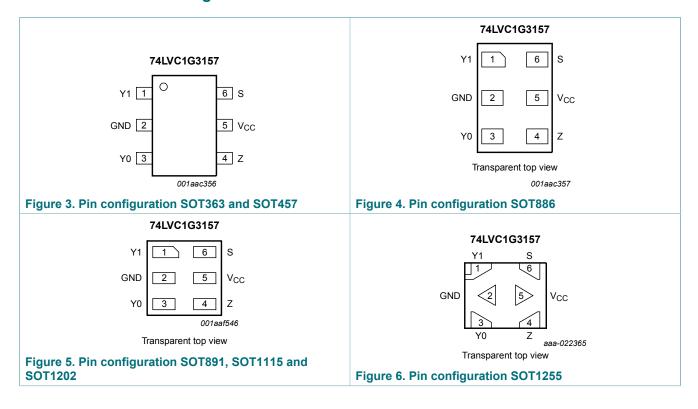
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

2-channel analog multiplexer/demultiplexer

## 5 Functional diagram



## 6 Pinning information



### 6.1 Pinning

2-channel analog multiplexer/demultiplexer

### 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 <sub>CC</sub>	5	supply voltage
S	6	select input

#### **Functional description** 7

### Table 4. Function table <sup>[1]</sup>

Input S	Channel on
L	Y0
Н	Y1

H = HIGH voltage level; [1]

L = LOW voltage level.

#### **Limiting values** 8

#### 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 <sub>CC</sub>	supply voltage		-0.5	+6.5	V
VI	input voltage	[1]	-0.5	+6.5	V
I <sub>IK</sub>	input clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V	-50	-	mA
I <sub>SK</sub>	switch clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V	-	±50	mA
V <sub>SW</sub>	switch voltage	enable and disable mode [2]	-0.5	V <sub>CC</sub> + 0.5	V
I <sub>SW</sub>	switch current	$V_{\rm SW}$ > -0.5 V or $V_{\rm SW}$ < V_{CC} + 0.5 V	-	±50	mA
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C <sup>[3]</sup>	-	250	mW

The minimum input voltage rating may be exceeded if the input current rating is observed. [1]

[2] [3] The minimum and maximum switch voltage ratings may be exceeded if the switch clamping current rating is observed.

For SC-88 and SC-74 packages: above 87.5 °C the value of Ptot derates linearly with 4.0 mW/K.

For XSON6 and X2SON6 packages: above 118 °C the value of Ptot derates linearly with 7.8 mW/K.

2-channel analog multiplexer/demultiplexer

## 9 Recommended operating conditions

#### Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
V <sub>CC</sub>	supply voltage		1.65	-	5.5	V
VI	input voltage		0	-	5.5	V
V <sub>SW</sub>	switch voltage	enable and disable mode [1]	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC}$ = 1.65 V to 2.7 V <sup>[2]</sup>	-	-	20	ns/V
		$V_{\rm CC}$ = 2.7 V to 5.5 V <sup>[2]</sup>	-	-	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 +8	5 °C	-40 °C to	+125 °C	Unit
				Min	Typ <sup>[1]</sup>	Max	Min	Мах	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 1.65 V to 1.95 V		0.65V <sub>CC</sub>	-	-	0.65V <sub>CC</sub>	-	V
	input voltage	$V_{CC}$ = 2.3 V to 2.7 V		1.7	-	-	1.7	-	V
		V <sub>CC</sub> = 3 V to 3.6 V		2.0	-	-	2.0	-	V
		$V_{CC}$ = 4.5 V to 5.5 V		0.7V <sub>CC</sub>	-	-	0.7V <sub>CC</sub>	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 1.65 V to 1.95 V		-	-	$0.35V_{CC}$	-	0.35V <sub>CC</sub>	V
	input voltage	$V_{CC}$ = 2.3 V to 2.7 V		-	-	0.7	-	0.7	V
		V <sub>CC</sub> = 3 V to 3.6 V		-	-	0.8	-	0.8	V
		$V_{CC}$ = 4.5 V to 5.5 V		-	-	0.3V <sub>CC</sub>		0.3V <sub>CC</sub>	V
l <sub>l</sub>	input leakage current	pin S; V <sub>1</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	[2]	-	±0.1	±1	-	±1	μA
I <sub>S(OFF)</sub>	OFF-state leakage current	$V_{CC}$ = 5.5 V; see <u>Figure 7</u>	[2]	-	±0.1	±0.2	-	±0.5	μA
I <sub>S(ON)</sub>	ON-state leakage current	V <sub>CC</sub> = 5.5 V; see <u>Figure 8</u>	[2]	-	±0.1	±1	-	±2	μA
I <sub>CC</sub>	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 <sub>CC</sub>	additional supply current	pin S; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; V <sub>CC</sub> = 5.5 V; V <sub>SW</sub> = GND or V <sub>CC</sub>	[2]	-	5	500	-	500	μA
Cı	input capacitance			-	2.5	-	-	-	pF

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## 74LVC1G3157

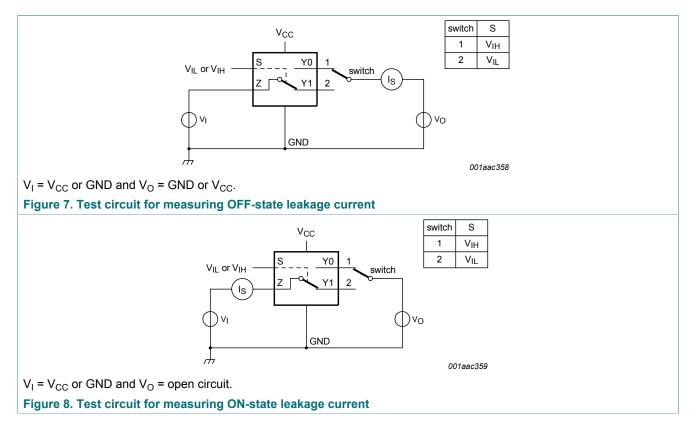
### 2-channel analog multiplexer/demultiplexer

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C			-40 °C to +125 °C		
			Min	Typ <sup>[1]</sup>	Max	Min	Мах		
C <sub>S(OFF)</sub>	OFF-state capacitance		-	6.0	-	-	-	pF	
C <sub>S(ON)</sub>	ON-state capacitance		-	18	-	-	-	pF	

[1] [2]

Typical values are measured at  $T_{amb}$  = 25  $^{\circ}C.$  These typical values are measured at  $V_{CC}$  = 3.3 V

### 10.1 Test circuits



2-channel analog multiplexer/demultiplexer

### 10.2 ON resistance

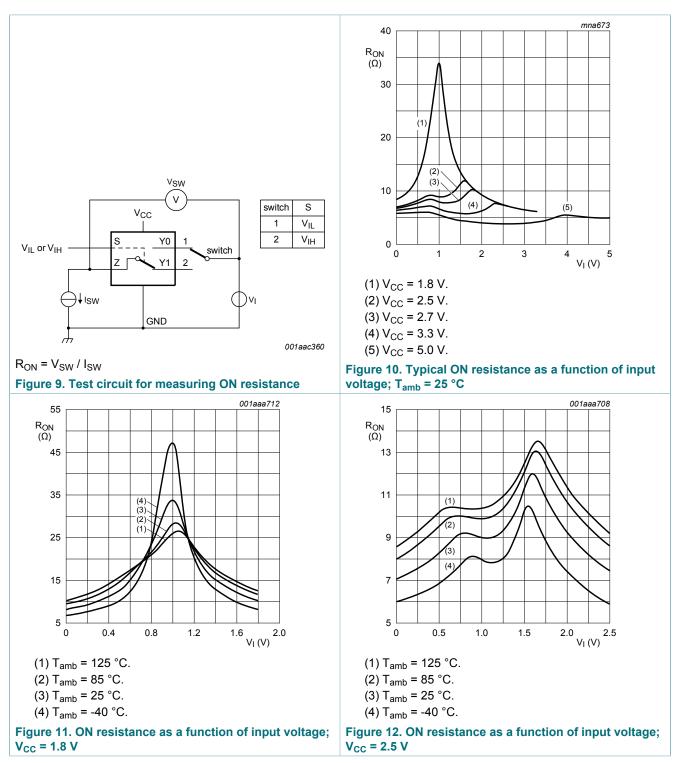
#### Table 8. ON resistance

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

Symbol	Parameter	Conditions	<b>-40</b> °	°C to +8	5 °C	-40 °C to	Unit	
			Min	Typ <sup>[1]</sup>	Max	Min	Мах	
R <sub>ON(peak)</sub>	ON resistance	$V_I = GND$ to $V_{CC}$ ; see <u>Figure 9</u>						
	(peak)	I <sub>SW</sub> = 4 mA; V <sub>CC</sub> = 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 <sub>ON(rail)</sub>	ON resistance	V <sub>I</sub> = GND; see <u>Figure 9</u>						
(rail)	(rail)	I <sub>SW</sub> = 4 mA; V <sub>CC</sub> = 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 <sub>SW</sub> = 4 mA; V <sub>CC</sub> = 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 <sub>ON(flat)</sub>	ON resistance	$V_{I} = GND \text{ to } V_{CC}$ <sup>[2]</sup>						
	(flatness)	I <sub>SW</sub> = 4 mA; V <sub>CC</sub> = 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<sub>CC</sub>. Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V<sub>CC</sub> and temperature. [1] [2]

2-channel analog multiplexer/demultiplexer

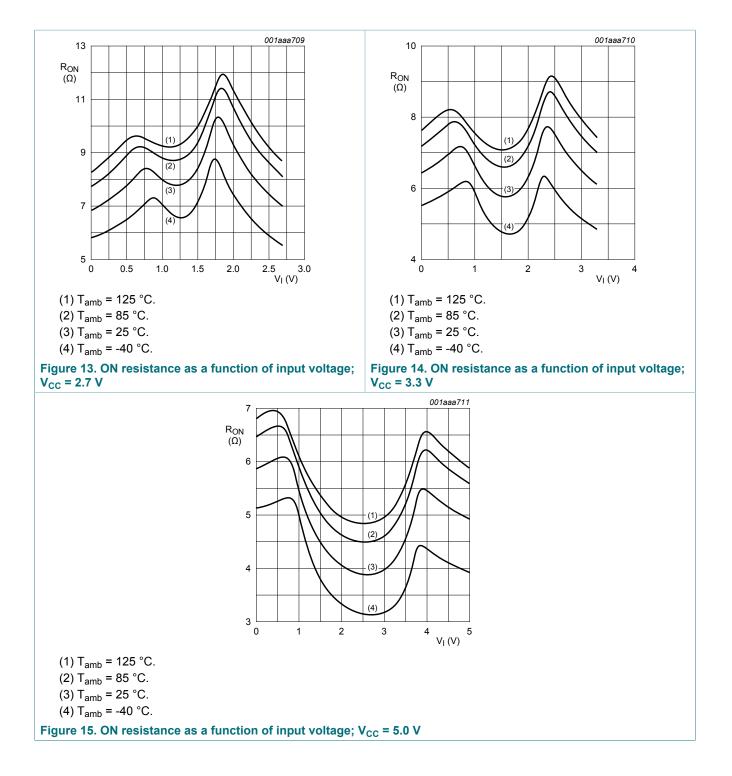


### 10.3 ON resistance test circuit and graphs

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## 74LVC1G3157

#### 2-channel analog multiplexer/demultiplexer



2-channel analog multiplexer/demultiplexer

## **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 <sup>[1]</sup>	Мах	Min	Мах	
t <sub>pd</sub>	propagation	Z to Yn or Yn to Z; see Figure 16	[2] [3]						
	delay	V <sub>CC</sub> = 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 <sub>CC</sub> = 2.7 V		-	-	1.0	-	1.5	ns
		V <sub>CC</sub> = 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 <sub>en</sub>	enable time	S to Yn; see Figure 17	[4]						
		V <sub>CC</sub> = 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 <sub>CC</sub> = 2.7 V		2.1	4.9	9.3	2.1	10.2	ns
		V <sub>CC</sub> = 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 <sub>dis</sub>	disable time	S to Yn; see Figure 17	[5]						
		V <sub>CC</sub> = 1.65 V to 1.95 V		3.0	6.0	11.4	3.0	11.7	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		2.1	4.4	7.3	2.1	7.6	ns
		V <sub>CC</sub> = 2.7 V		2.1	4.2	6.3	2.1	6.6	ns
		V <sub>CC</sub> = 3 V to 3.6 V		1.7	3.6	5.3	1.7	5.9	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V		1.3	2.9	3.8	1.3	4.3	ns
t <sub>b-m</sub>	break-before-	see Figure 18	[6]						
	make time	V <sub>CC</sub> = 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 <sub>CC</sub> = 2.7 V		0.5	-	-	0.5	-	ns
		V <sub>CC</sub> = 3 V to 3.6 V		0.5	-	-	0.5	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V		0.5	-	-	0.5	-	ns

Typical values are measured at T<sub>amb</sub> = 25 °C and nominal V<sub>CC</sub>. [1]

[2] [3]

 $t_{pd}$  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).

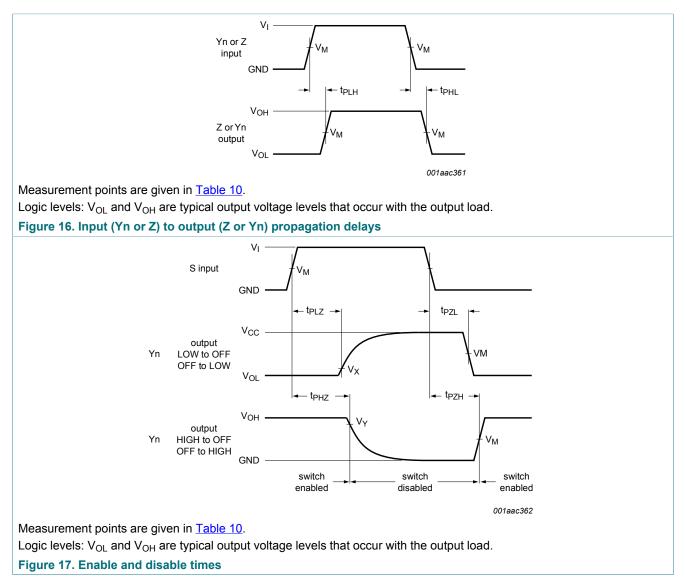
[4]  $t_{en}$  is the same as  $t_{PZH}$  and  $t_{PZL}$ .

[5]

 $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ . Break-before-make specified by design. [6]

2-channel analog multiplexer/demultiplexer

### 11.1 Waveforms and test circuits



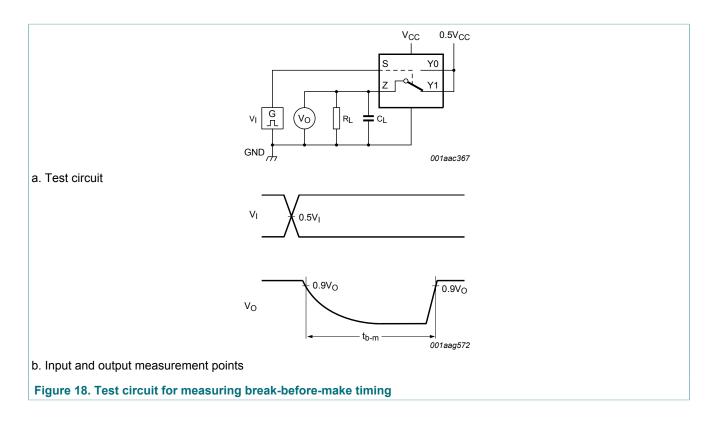
#### Table 10. Measurement points

Supply voltage	Input	Output				
V <sub>cc</sub>	V <sub>M</sub>	V <sub>M</sub> V <sub>X</sub> V <sub>Y</sub>				
1.65 V to 5.5 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V		

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#### 2-channel analog multiplexer/demultiplexer



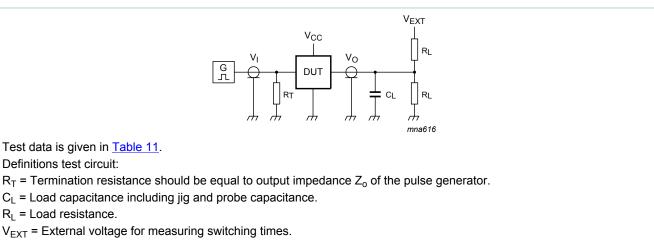


Figure 19. Test circuit for measuring switching times

### 2-channel analog multiplexer/demultiplexer

Table 11. Test data							
Supply voltage Input		Load	Load		V <sub>EXT</sub>		
V <sub>cc</sub>	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PLH,</sub> t <sub>PHL</sub>	t <sub>PZH,</sub> t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2.0 ns	50 pF	500 Ω	open	GND	$2 \times V_{CC}$
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	50 pF	500 Ω	open	GND	$2 \times V_{CC}$
2.7 V	V <sub>cc</sub>	≤ 2.5 ns	50 pF	500 Ω	open	GND	$2 \times V_{CC}$
3 V to 3.6 V	V <sub>cc</sub>	≤ 2.5 ns	50 pF	500 Ω	open	GND	$2 \times V_{CC}$
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open	GND	$2 \times V_{CC}$

### 11.2 Additional dynamic characteristics

#### Table 12. Additional dynamic characteristics

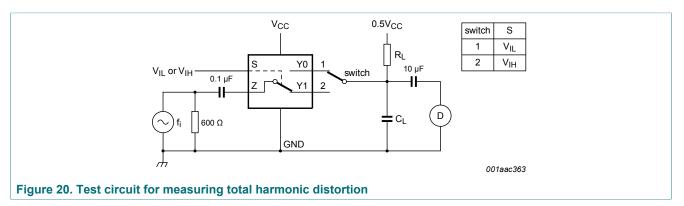
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); T<sub>amb</sub> = 25 °C.

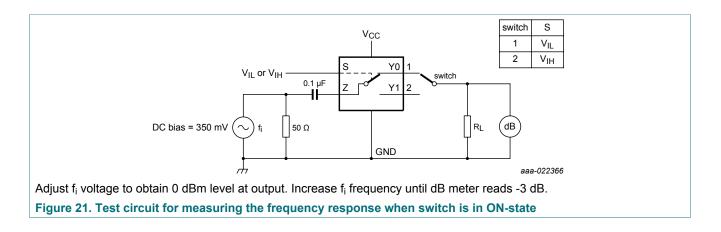
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD	total harmonic distortion	$f_i$ = 600 Hz to 20 kHz; R <sub>L</sub> = 600 Ω; C <sub>L</sub> = 50 pF; V <sub>I</sub> = 0.5 V (p-p); see <u>Figure 20</u>				
		V <sub>CC</sub> = 1.65 V	-	0.260	-	%
		V <sub>CC</sub> = 2.3 V	-	0.078	-	%
		V <sub>CC</sub> = 3.0 V	-	0.078	-	%
		V <sub>CC</sub> = 4.5 V	-	0.078	-	%
f(−3dB)	-3 dB frequency response	$R_L = 50 \Omega$ ; see Figure 21				
		V <sub>CC</sub> = 1.65 V	-	200	-	MHz
		V <sub>CC</sub> = 2.3 V	-	300	-	MHz
		V <sub>CC</sub> = 3.0 V	-	300	-	MHz
		V <sub>CC</sub> = 4.5 V	-	300	-	MHz
a <sub>iso</sub>	isolation (OFF-state)	R <sub>L</sub> = 50 Ω; C <sub>L</sub> = 5 pF; $f_i$ = 10 MHz; see <u>Figure 22</u>				
		V <sub>CC</sub> = 1.65 V	-	-42	-	dB
		V <sub>CC</sub> = 2.3 V	-	-42	-	dB
		V <sub>CC</sub> = 3.0 V	-	-40	-	dB
		V <sub>CC</sub> = 4.5 V	-	-40	-	dB
Q <sub>inj</sub>	charge injection	$C_L$ = 0.1 nF; V <sub>gen</sub> = 0 V; R <sub>gen</sub> = 0 Ω; f <sub>i</sub> = 1 MHz; R <sub>L</sub> = 1 MΩ; see Figure 23				
		V <sub>CC</sub> = 1.8 V	-	3.3	-	рС
		V <sub>CC</sub> = 2.5 V	-	4.1	-	рС
		V <sub>CC</sub> = 3.3 V	-	5.0	-	рС
		$V_{CC} = 4.5 V$	-	6.4	-	рС
		V <sub>CC</sub> = 5.5 V	-	7.5	-	рС

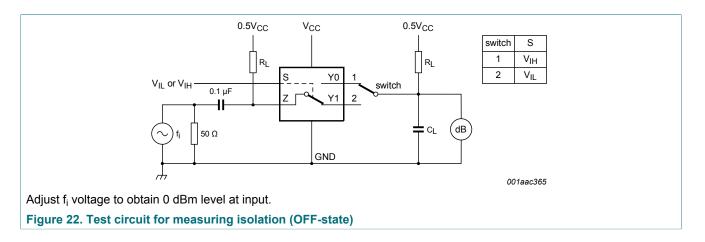
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2-channel analog multiplexer/demultiplexer

### 11.3 Test circuits



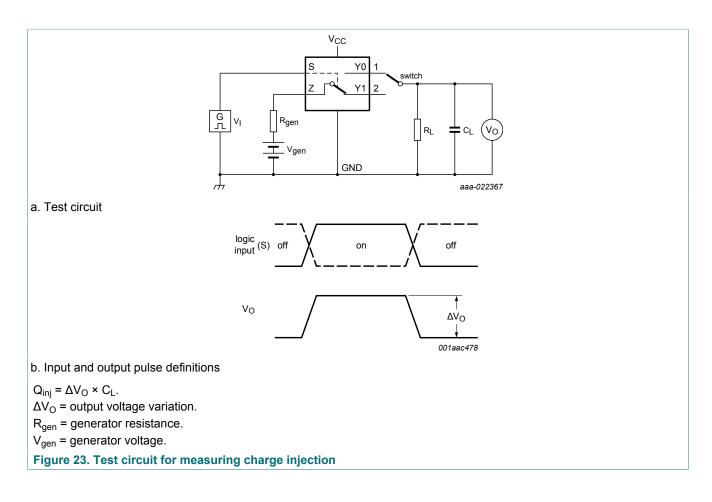




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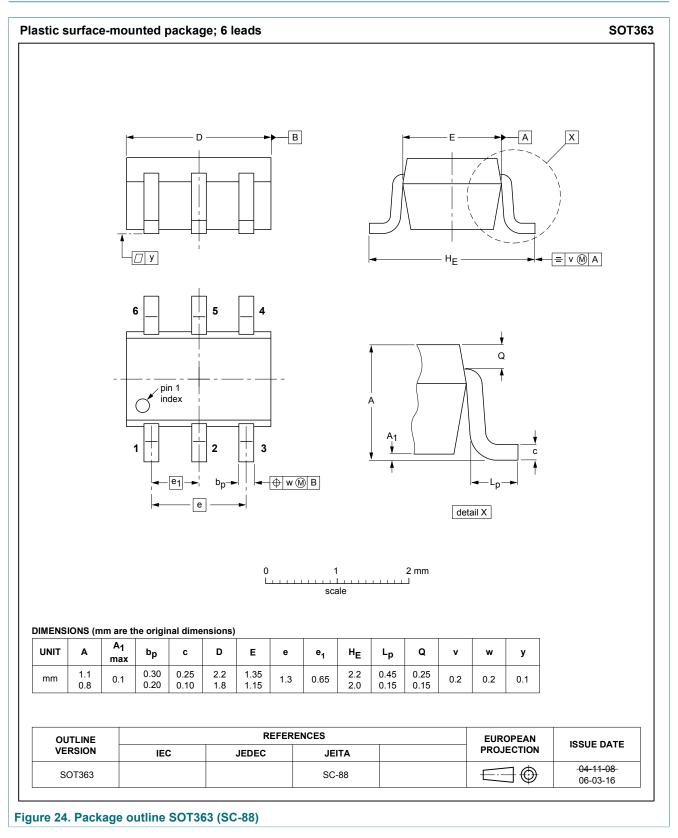
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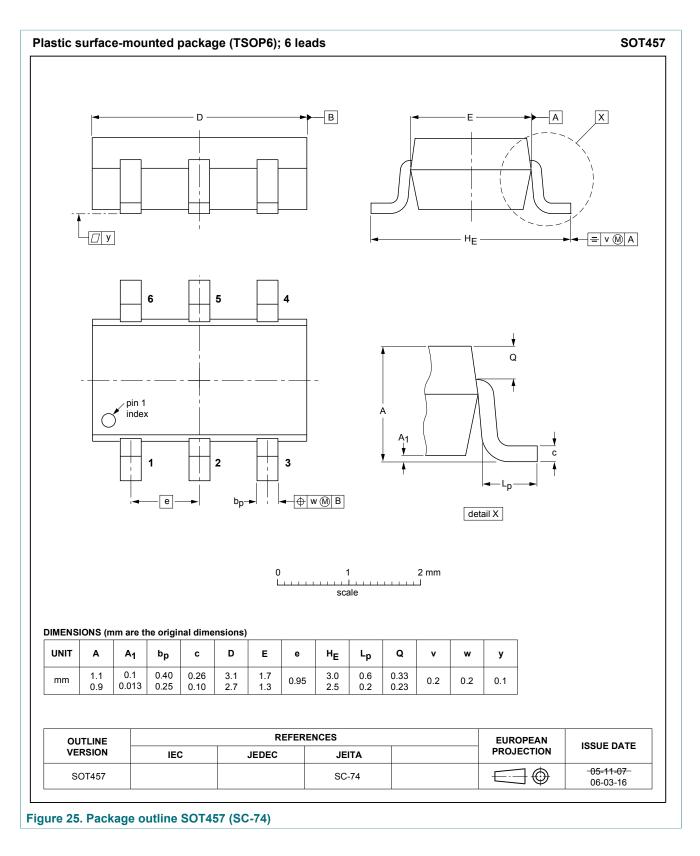
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## 12 Package outline

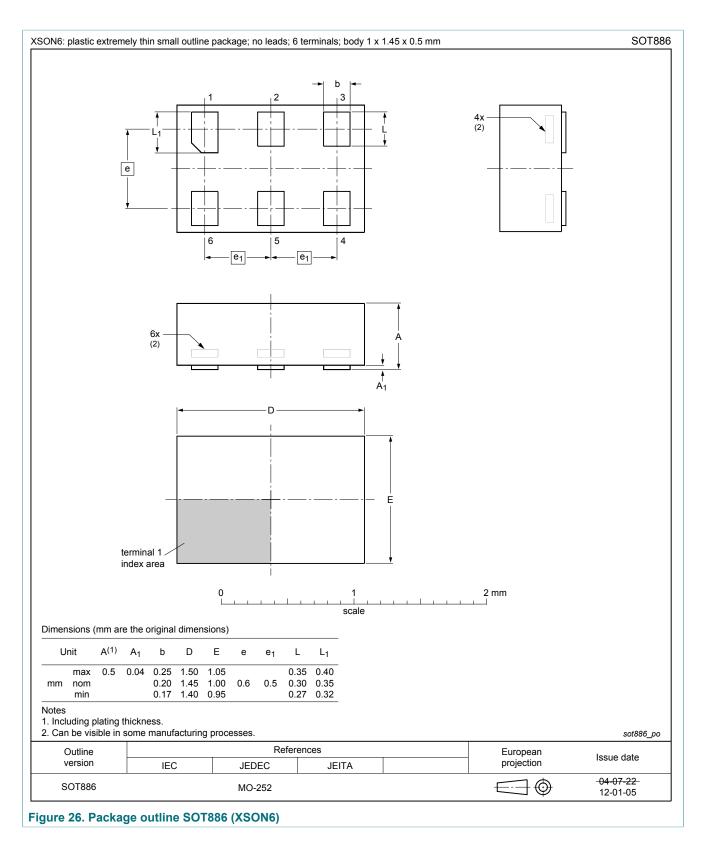


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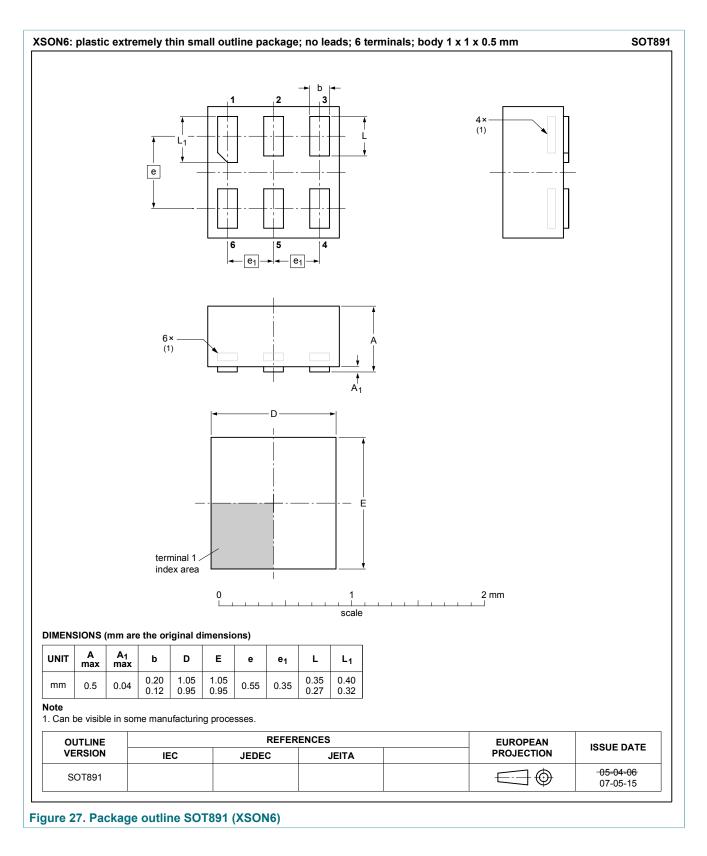
#### 2-channel analog multiplexer/demultiplexer



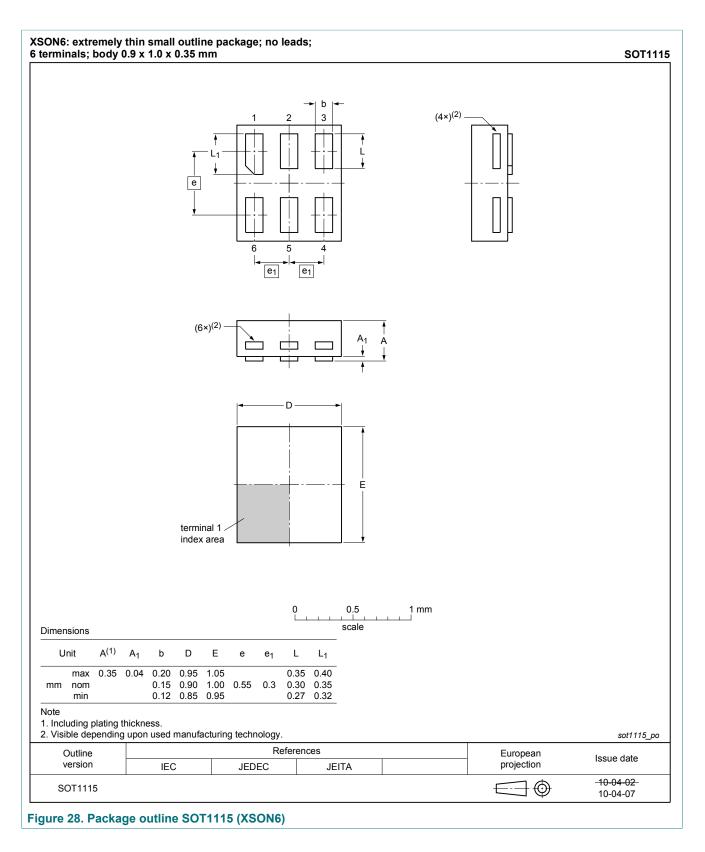
#### 2-channel analog multiplexer/demultiplexer



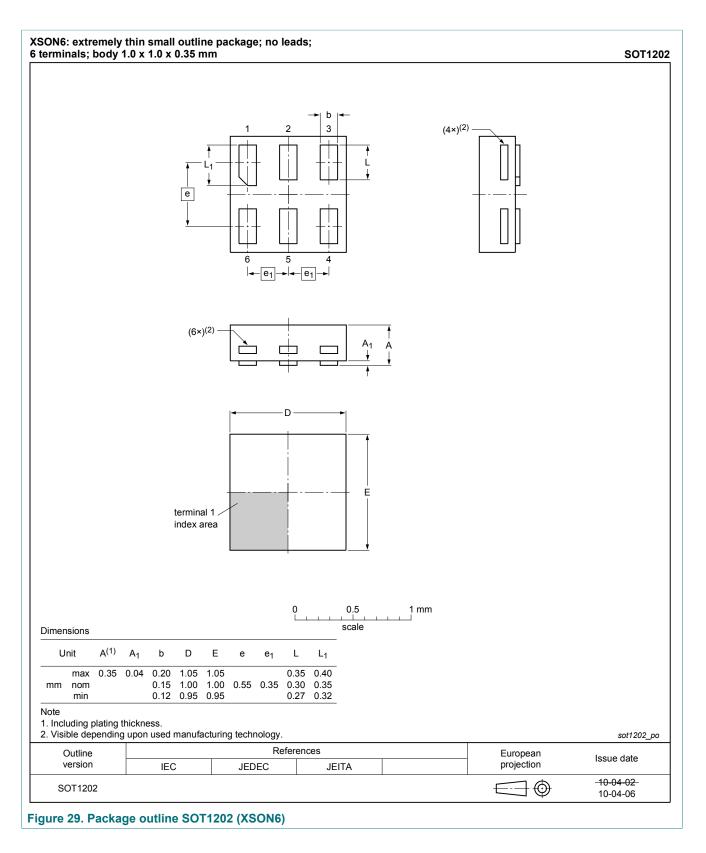
#### 2-channel analog multiplexer/demultiplexer



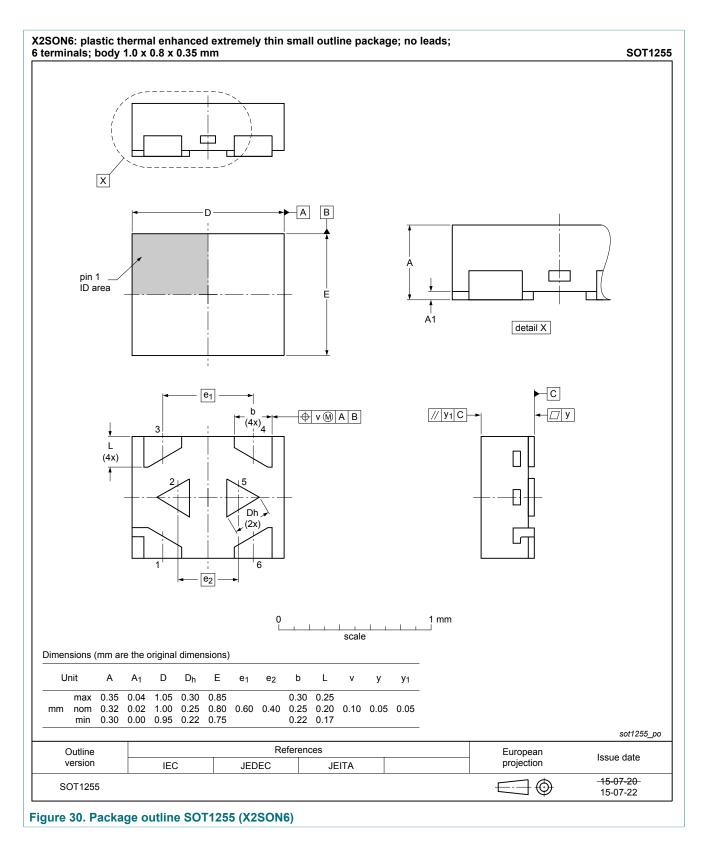
#### 2-channel analog multiplexer/demultiplexer



#### 2-channel analog multiplexer/demultiplexer



#### 2-channel analog multiplexer/demultiplexer



2-channel analog multiplexer/demultiplexer

## **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.7	20170214	Product data sheet	-	74LVC1G3157 v.6	
Modifications:	<ul> <li><u>Table 7</u>: The maximum limits for leakage current and supply current have changed.</li> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> </ul>				
74LVC1G3157 v.6	20160512	Product data sheet	-	74LVC1G3157 v.5	
Modifications:	<ul> <li>Added type number 74LVC1G3157GX (SOT1255 package)</li> <li>Table 9: Minimum and maximum values enable and disable times revised.</li> <li>Table 12 and Figure 21: Condition and test circuit for f<sub>(-3dB)</sub> revised.</li> <li>Figure 23: Test circuit for charge injection revised.</li> </ul>				
74LVC1G3157 v.5	20121206	Product data sheet	-	74LVC1G3157 v.4	
Modifications:	<ul> <li>Package outline</li> </ul>	e drawing of SOT886 (Figure 2	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	-	-	

#### 2-channel analog multiplexer/demultiplexer

## 15 Legal information

### 15.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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. [1]

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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### Nexperia

## 74LVC1G3157

#### 2-channel analog multiplexer/demultiplexer

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