# imall

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### 1. General description

The 74LVC1G157 is a single 2-input multiplexer which select data from two data inputs (I0 and I1) under control of a common data select input (S). The state of the common data select input determines the particular register from which the data comes. The output (Y) presents the selected data in the true (non-inverted) form.

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 applications.

This device is fully specified for partial power-down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

Schmitt-trigger action at all inputs makes the circuit highly tolerant to slower input rise and fall times.

#### 2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- High noise immunity
- Complies with JEDEC standard:
  - ◆ JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8B/JESD36 (2.7 V to 3.6 V)
- $\pm 24$  mA output drive (V<sub>CC</sub> = 3.0 V)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Inputs accept voltages up to 5 V
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

# nexperia

# 3. Ordering information

#### Table 1. Ordering information

Type number	Package						
	Temperature range	Name	Description	Version			
74LVC1G157GW	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363			
74LVC1G157GV	–40 °C to +125 °C	SC-74	plastic surface-mounted package (TSOP6); 6 leads	SOT457			
74LVC1G157GM	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 $\times$ 1.45 $\times$ 0.5 mm	SOT886			
74LVC1G157GF	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 $\times$ 1 $\times$ 0.5 mm	SOT891			
74LVC1G157GN	–40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $0.9 \times 1.0 \times 0.35$ mm	SOT1115			
74LVC1G157GS	–40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $1.0 \times 1.0 \times 0.35$ mm	SOT1202			

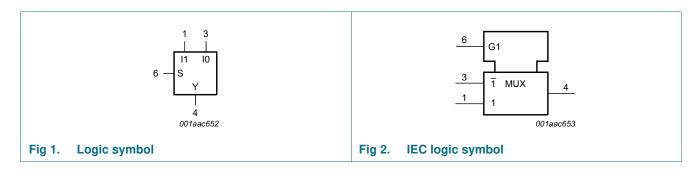
### 4. Marking

#### Table 2. Marking

Type number	Marking code <sup>[1]</sup>
74LVC1G157GW	ҮР
74LVC1G157GV	YP
74LVC1G157GM	YP
74LVC1G157GF	YP
74LVC1G157GN	YP
74LVC1G157GS	YP

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

# 5. Functional diagram

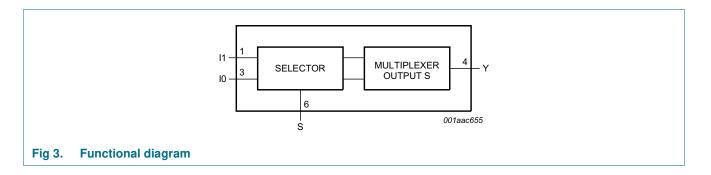


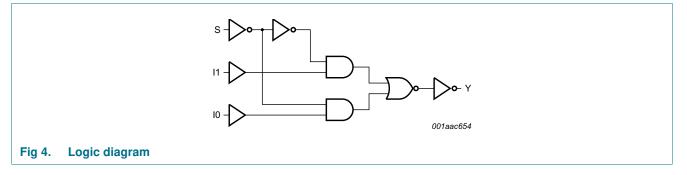
74LVC1G157 Product data sheet

#### Nexperia

74LVC1G157

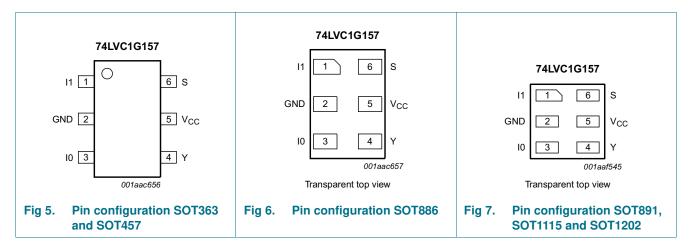
Single 2-input multiplexer





# 6. Pinning information

#### 6.1 Pinning



### 6.2 Pin description

Table 3. Pin description						
Symbol	Pin	Description				
11	1	data input from source 1				
GND	2	ground (0 V)				
10	3	data input from source 0				
Y	4	multiplexer output				
V <sub>CC</sub>	5	supply voltage				
S	6	common data select input				

### 7. Functional description

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

Inputs	Output		
S	11	10	Y
L	Х	L	L
L	Х	Н	Н
Н	L	X	L
Н	Н	X	Н

[1] H = HIGH voltage level;

L = LOW voltage level;

X = don't care.

# 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 <sub>CC</sub>	supply voltage			-0.5	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V		-50	-	mA
VI	input voltage		[1]	-0.5	+6.5	V
I <sub>OK</sub>	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V		-	±50	mA
Vo	output voltage	Active mode	<u>[1][2]</u>	-0.5	V <sub>CC</sub> + 0.5	V
		Power-down mode	[1][2]	-0.5	+6.5	V
I <sub>O</sub>	output current	$V_{O} = 0 V$ to $V_{CC}$		-	±50	mA
I <sub>CC</sub>	supply current			-	100	mA
I <sub>GND</sub>	ground current			-100	-	mA
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$	[3]	-	250	mW
T <sub>stg</sub>	storage temperature			-65	+150	°C

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

[2] When  $V_{CC} = 0$  V (Power-down mode), the output voltage can be 5.5 V in normal operation.

# 9. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		1.65	-	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	Active mode	-	-	V <sub>CC</sub>	V
		V <sub>CC</sub> = 0 V; Power-down mode	-	-	5.5	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	V <sub>CC</sub> = 1.65 V to 2.7 V	-	-	20	ns/V
		V <sub>CC</sub> = 2.7 V to 5.5 V	-	-	10	ns/V

#### Table 6. Recommended operating conditions

# **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[1]	Max	Min	Max	-
	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 <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V <sub>CC</sub> = 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	-	-	$0.35V_{CC}$	-	$0.35V_{CC}$	V
	input voltage	V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	$0.3V_{CC}$	-	$0.3V_{CC}$	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$						
output	output voltage	I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	V <sub>CC</sub> - 0.1	-	-	$V_{CC}-0.1$	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	1.54	-	0.95	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.9	2.15	-	1.7	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	2.50	-	1.9	-	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.3	2.62	-	2.0	-	V
		$I_{O} = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.8	4.11	-	3.4	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$						
	output voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	-	-	0.10	-	0.10	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	0.07	0.45	-	0.70	V
		$I_{O} = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	0.12	0.30	-	0.45	V
		$I_{O} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	0.17	0.40	-	0.60	V
		$I_{O} = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	0.33	0.55	-	0.80	V
		$I_{O} = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.39	0.55	-	0.80	V
l <sub>l</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	±0.1	±1	-	±1	μA

# 74LVC1G157

Single 2-input multiplexer

Table 7. Static characteristics co	continued
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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	
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0 V; V_1 \text{ or } V_O = 5.5 V$	-	±0.1	±2	-	±2	μA
I <sub>CC</sub>	supply current	V <sub>I</sub> = 5.5 V or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 1.65 V to 5.5 V	-	0.1	4	-	4	μA
$\Delta I_{CC}$	additional supply current	per pin; $V_{CC} = 2.3 \text{ V}$ to 5.5 V; $V_I = V_{CC} - 0.6 \text{ V}$ ; $I_O = 0 \text{ A}$	-	5	500	-	500	μA
Cı	input capacitance	$V_{CC}$ = 3.3 V; $V_{I}$ = GND to $V_{CC}$	-	2.5	-	-	-	pF

[1] All typical values are measured at  $T_{amb} = 25 \ ^{\circ}C$ .

### **11. Dynamic characteristics**

#### Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for load circuit see Figure 9.

Symbol	Parameter	Conditions	-40	–40 °C to +85 °C			o +125 ℃	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
t <sub>pd</sub>	propagation delay	I0, I1 to Y; see <u>Figure 8</u> [2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.5	4.3	11.0	1.5	13.0	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.0	2.9	6.1	1.0	7.6	ns
		$V_{CC} = 2.7 V$	1.0	3.1	5.6	1.0	7.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	2.7	5.0	1.0	6.3	ns
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$	0.5	2.2	4.0	0.5	5.0	ns
		S to Y; see Figure 8 [2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.5	4.3	11.0	1.5	13.0	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.0	2.9	6.9	1.0	8.6	ns
		V <sub>CC</sub> = 2.7 V	1.0	3.3	5.9	1.0	7.4	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	1.0	2.9	5.0	1.0	6.3	ns
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$	0.5	2.3	4.0	0.5	5.0	ns
C <sub>PD</sub>	power dissipation capacitance	$V_{I} = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3]	-	18	-	-	-	pF

[1] Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

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

[3]  $C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in  $\mu$ W).

 $\textbf{P}_{D} = \textbf{C}_{PD} \times \textbf{V}_{CC}{}^{2} \times \textbf{f}_{i} \times \textbf{N} + \Sigma(\textbf{C}_{L} \times \textbf{V}_{CC}{}^{2} \times \textbf{f}_{o}) \text{ where:}$ 

 $f_i = input frequency in MHz;$ 

 $f_o$  = output frequency in MHz;

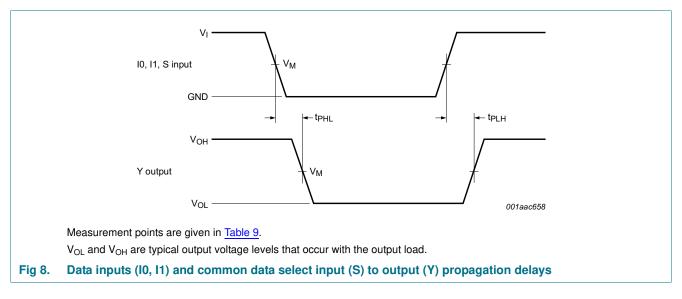
 $C_L$  = output load capacitance in pF;

 $V_{CC}$  = supply voltage in Volts;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}{}^2 \times f_o)$  = sum of the outputs.

# 12. Waveforms



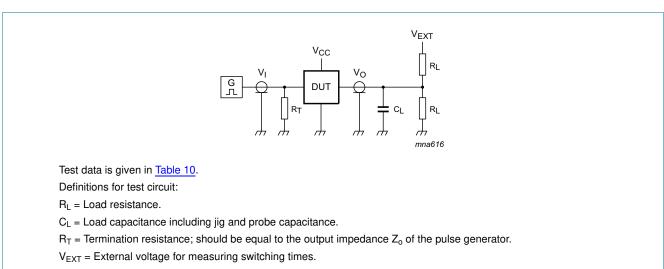
#### Table 9. Measurement points

Supply voltage	Input	Output	
V <sub>CC</sub>	V <sub>M</sub>	V <sub>M</sub>	
1.65 V to 1.95 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	
2.3 V to 2.7 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	
2.7 V	1.5 V	1.5 V	
3.0 V to 3.6 V	1.5 V	1.5 V	
4.5 V to 5.5 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	

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#### Single 2-input multiplexer

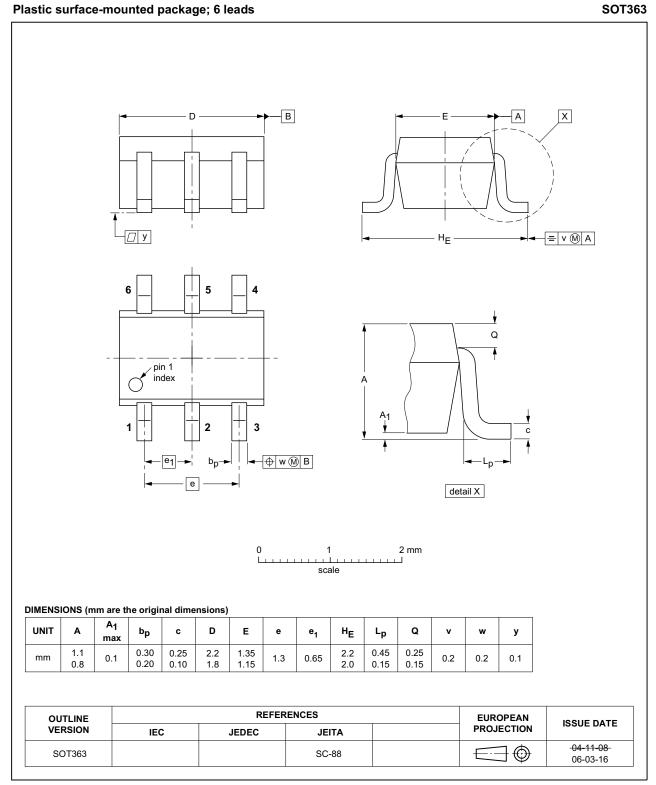


#### Fig 9. Test circuit for measuring switching times

#### Table 10. Test data

Supply voltage	Input		Load		V <sub>EXT</sub>
V <sub>cc</sub>	VI	$t_r = t_f$	CL	RL	t <sub>PLH</sub> , t <sub>PHL</sub>
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	1 kΩ	open
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	open
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open

# 13. Package outline



#### Fig 10. Package outline SOT363 (SC-88)

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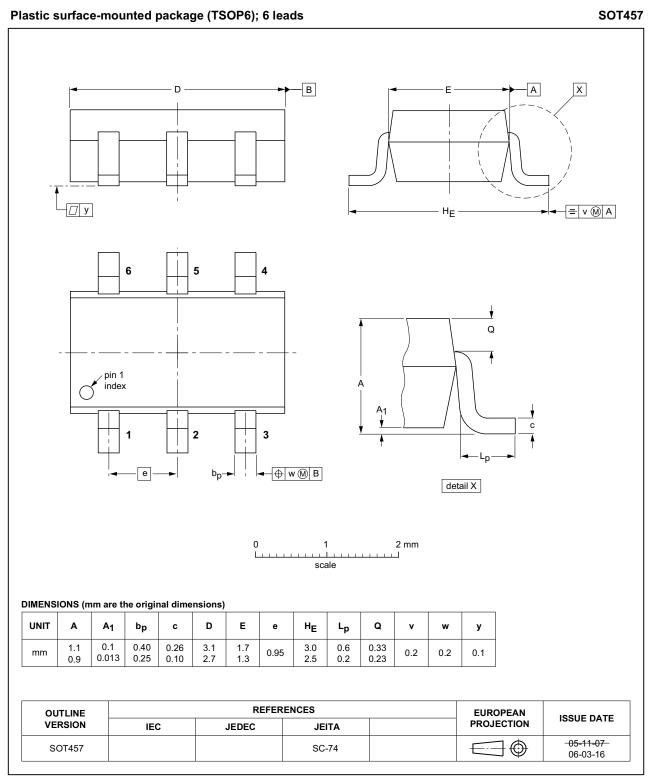


Fig 11. Package outline SOT457 (SC-74)

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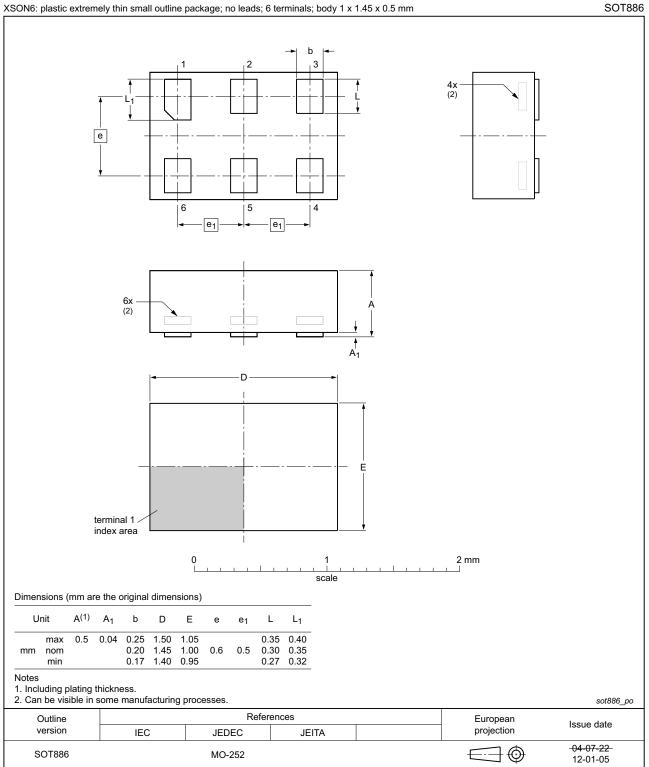


Fig 12. Package outline SOT886 (XSON6)

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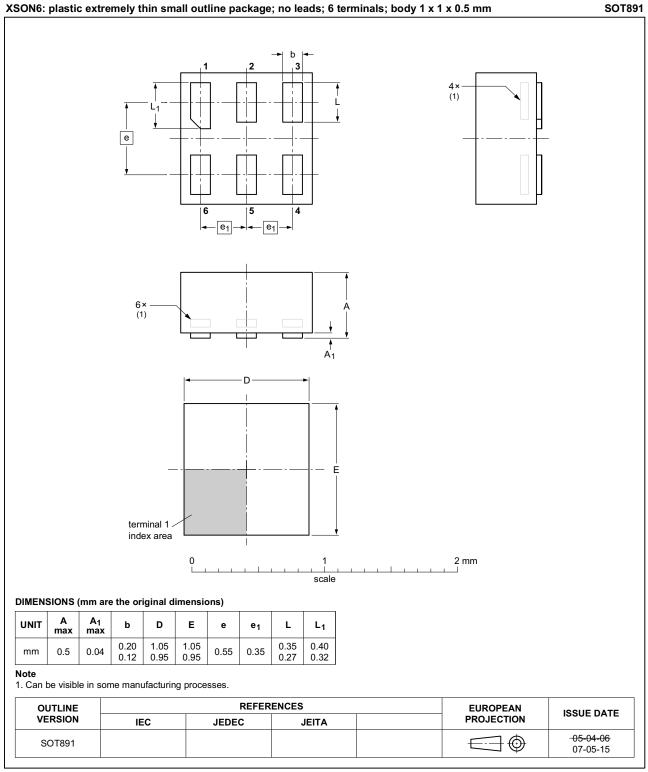
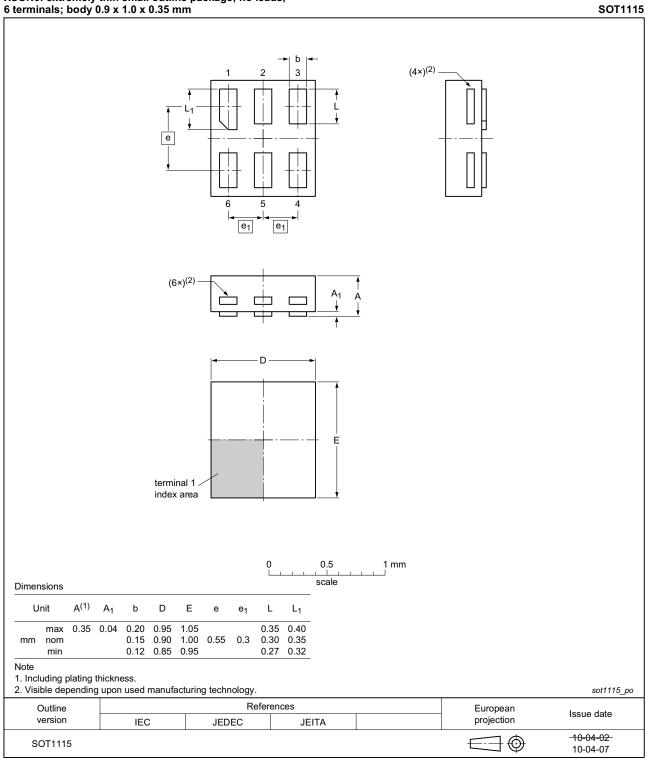


Fig 13. Package outline SOT891 (XSON6)

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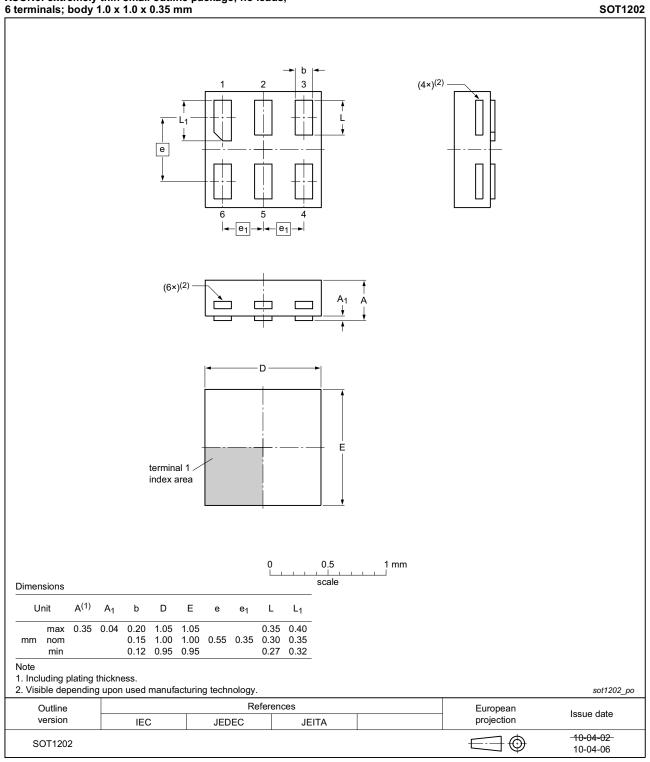


# XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

Fig 14. Package outline SOT1115 (XSON6)

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

Fig 15. Package outline SOT1202 (XSON6)

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## 14. Abbreviations

Table 11. 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	

### 15. Revision history

#### Table 12. **Revision history Document ID Release date** Data sheet status **Change notice** Supersedes 74LVC1G157 v.7 20161202 Product data sheet 74LVC1G157 v.6 Modifications: • Table 7: The maximum limits for leakage current and supply current have changed. 74LVC1G157 v.6 20121231 Product data sheet 74LVC1G157 v.5 Modifications: • Package outline drawing of SOT886 (Figure 12) modified. 74LVC1G157 v.5 20111206 Product data sheet 74LVC1G157 v.4 Modifications: · Legal pages updated. 74LVC1G157 v.4 20101028 Product data sheet 74LVC1G157 v.3 74LVC1G157 v.3 20070712 Product data sheet 74LVC1G157 v.2 74LVC1G157 v.2 Product data sheet 74LVC1G157 v.1 20061011 74LVC1G157 v.1 20050425 Product data sheet

### 16. Legal information

#### 16.1 Data sheet status

Document status[1][2]	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.

[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".

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Product data sheet

#### **Nexperia**

# 74LVC1G157

#### Single 2-input multiplexer

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