2-channel analog multiplexer/demultiplexer Rev. 5 — 6 December 2012

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.

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
- 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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Ordering information 3.

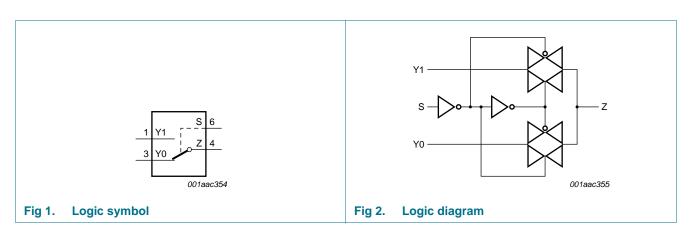
| Table 1. Ordering | g information | | | | | | | | | |
|-------------------|-------------------|---------|---|---------|--|--|--|--|--|--|
| Type number | Package | Package | | | | | | | | |
| | Temperature range | Name | Description | Version | | | | | | |
| 74LVC1G3157GW | –40 °C to +125 °C | SC-88 | 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 \times 1.45 \times 0.5 mm | SOT886 | | | | | | |
| 74LVC1G3157GF | –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 | | | | | | |
| 74LVC1G3157GN | –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 | | | | | | |
| 74LVC1G3157GS | –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 | | | | | | |

Marking 4.

| Table 2. Marking | |
|------------------|-----------------------------|
| Type number | Marking code ^[1] |
| 74LVC1G3157GW | YJ |
| 74LVC1G3157GV | YJ |
| 74LVC1G3157GM | YJ |
| 74LVC1G3157GF | YJ |
| 74LVC1G3157GN | YJ |
| 74LVC1G3157GS | YJ |

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

Functional diagram 5.



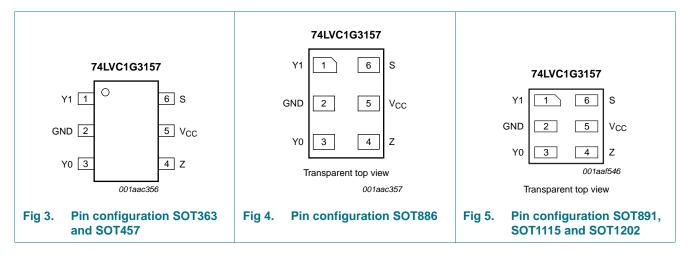
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6. Pinning information

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

| Input S | Channel on |
|---------|------------|
| L | YO |
| Н | Y1 |

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

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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 | | <u>[1]</u> –0.5 | +6.5 | V |
| I _{IK} | input clamping current | $V_{\rm I}$ < –0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V | -50 | - | mA |
| I _{SK} | switch clamping current | $V_{\rm I}$ < –0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 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 | $T_{amb} = -40 \ ^{\circ}C$ to +125 $^{\circ}C$ | <u>[3]</u> _ | 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 SC-88 and SC-74 packages: above 87.5 °C the value of Ptot derates linearly with 4.0 mW/K.

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

9. Recommended operating conditions

Table 6. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Тур | Мах | 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 | <u>[1]</u> 0 | - | V _{CC} | V |
| T _{amb} | ambient temperature | | -40 | - | +125 | °C |
| $\Delta t / \Delta V$ | 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).

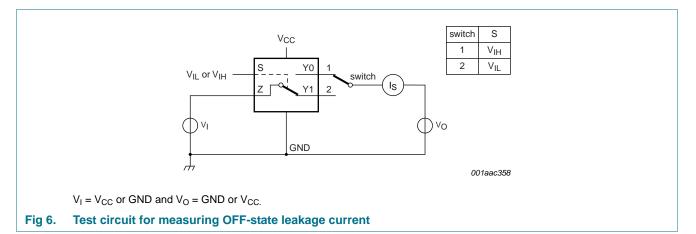
| Symbol | Parameter | Conditions | | -40 ° | °C to +8 | 5 °C | –40 °C to | Unit | |
|----------------------------|---------------------------------|---|-----|--------------|----------|--------------|---------------------|--------------|----|
| | | | | Min | Typ[1] | Max | Min | Max | |
| V _{IH} | HIGH-level | $V_{CC} = 1.65 \text{ V}$ 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 | ±2 | - | ±10 | μA |
| I _{S(OFF)} | OFF-state leakage current | $V_{CC} = 5.5 V$; see <u>Figure 6</u> | [2] | - | ±0.1 | ±5 | - | ±20 | μΑ |
| I _{S(ON)} | ON-state leakage current | $V_{CC} = 5.5 \text{ V}; \text{ see } \frac{\text{Figure 7}}{1000}$ | [2] | - | ±0.1 | ±5 | - | ±20 | μΑ |
| I _{CC} | supply current | $V_{\rm I}$ = 5.5 V or GND; $V_{\rm SW}$ = GND or $V_{\rm CC};$ $V_{\rm CC}$ = 1.65 V to 5.5 V | [2] | - | 0.1 | 10 | - | 40 | μΑ |
| ΔI_{CC} | additional supply current | pin S; V _I = V _{CC} – 0.6 V; V _{CC} = 5.5 V; V _{SW} = GND or V _{CC} | [2] | - | 5 | 500 | - | 5000 | μΑ |
| CI | input capacitance | | | - | 2.5 | - | - | - | pF |
| $C_{\text{S}(\text{OFF})}$ | OFF-state capacitance | | | - | 6.0 | - | - | - | pF |
| C _{S(ON)} | ON-state capacitance | | | - | 18 | - | - | - | pF |

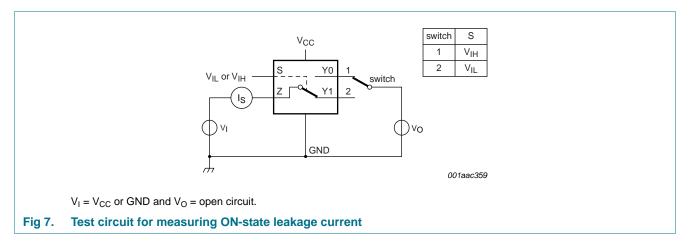
[1] Typical values are measured at $T_{amb} = 25 \ ^{\circ}C$.

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

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10.1 Test circuits





10.2 ON resistance

Table 8. **ON resistance**

At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graphs see Figure 9 to Figure 14.

| Symbol | Parameter | Conditions | –40 °C to +85 °C | | –40 °C to | +125 °C | Unit | |
|-----------------------|----------------------|---|------------------|----------------------|-----------|---------|------|---|
| | | | Min | Typ <mark>[1]</mark> | Max | Min | Max | |
| R _{ON(peak)} | ON resistance (peak) | $V_I = GND$ to V_{CC} ; see Figure 8 | | | | | | |
| | | 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 |

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| Symbol | Parameter | Conditions | -40 | °C to +8 | 85 °C | -40 °C te | o +125 °C | Unit |
|-----------------------|--------------------------------------|---|-----|----------------------|-------|-----------|-----------|------|
| | | | | Typ <mark>[1]</mark> | Max | Min | Max | |
| R _{ON(rail)} | ON resistance (rail) | V _I = GND; see <u>Figure 8</u> | | • | | | | |
| | | 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 8</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 | $V_{I} = GND$ to V_{CC} | [2] | | | | | |
| (flatness) | (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 |

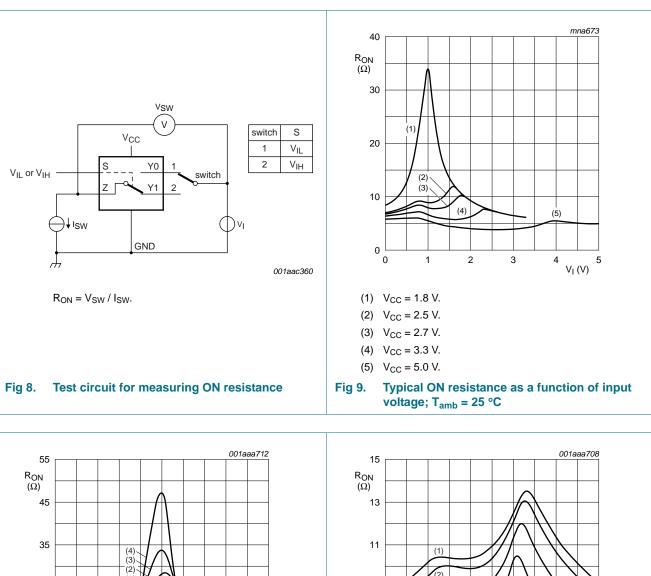
Table 8. ON resistance ...continued

At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graphs see Figure 9 to Figure 14.

[1] Typical values are measured at $T_{amb} = 25 \text{ °C}$ and nominal V_{CC} .

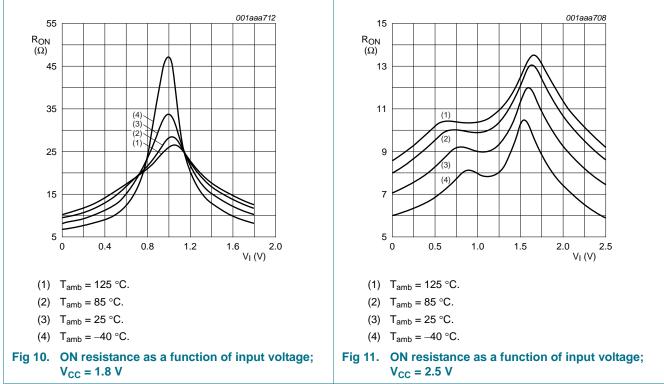
[2] Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V_{CC} and temperature.

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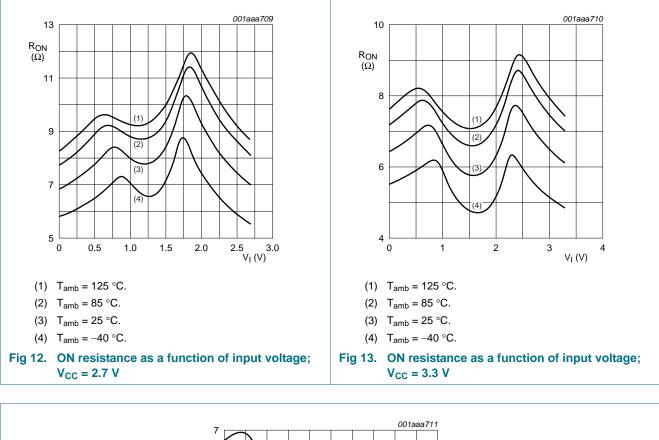


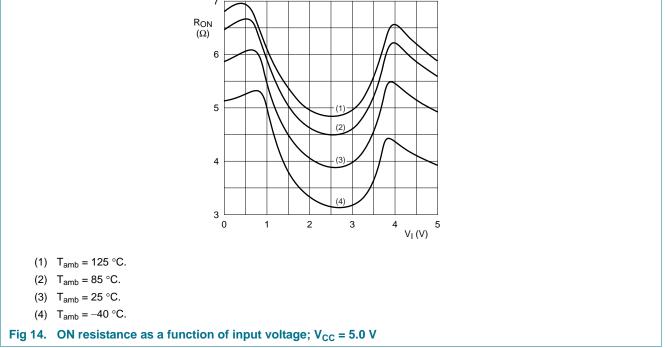
10.3 ON resistance test circuit and graphs

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11. Dynamic characteristics

Table 9. Dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for load circuit see Figure 18.

| Symbol | Parameter | Conditions | | -40 | °C to +8 | 5 °C | –40 °C to +125 °C | | Unit |
|------------------|-------------------|-----------------------------------|------------|-----|----------------------|------|-------------------|------|------|
| | | | | Min | Typ <mark>[1]</mark> | Max | Min | Max | |
| t _{pd} | propagation delay | Z to Yn or Yn to Z; see Figure 15 | [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 |
| | | $V_{CC} = 3 V \text{ to } 3.6 V$ | | - | - | 0.8 | - | 1.5 | ns |
| | | V_{CC} = 4.5 V to 5.5 V | | - | - | 0.6 | - | 1.0 | ns |
| t _{en} | enable time | S to Yn; see Figure 16 | [4] | | | | | | |
| | | V_{CC} = 1.65 V to 1.95 V | | 1.0 | 8.7 | 14 | 1.0 | 14.0 | ns |
| | | V_{CC} = 2.3 V to 2.7 V | | 1.0 | 5.3 | 7.5 | 1.0 | 7.5 | ns |
| | | $V_{CC} = 2.7 V$ | | 1.0 | 4.9 | 6.0 | 1.0 | 6.0 | ns |
| | | $V_{CC} = 3 V \text{ to } 3.6 V$ | | 0.5 | 4.0 | 5.5 | 0.5 | 5.5 | ns |
| | | V_{CC} = 4.5 V to 5.5 V | | 0.5 | 3.0 | 4.0 | 0.5 | 4.0 | ns |
| dis | disable time | S to Yn; see Figure 16 | <u>[5]</u> | | | | | | |
| | | V_{CC} = 1.65 V to 1.95 V | | 2.5 | 6.0 | 8.5 | 2.5 | 8.5 | ns |
| | | V_{CC} = 2.3 V to 2.7 V | | 2.0 | 4.4 | 6.0 | 2.0 | 6.0 | ns |
| | | $V_{CC} = 2.7 V$ | | 1.5 | 4.2 | 5.0 | 1.5 | 5.0 | ns |
| | | $V_{CC} = 3 V \text{ to } 3.6 V$ | | 1.5 | 3.6 | 4.5 | 1.5 | 4.5 | ns |
| | | V_{CC} = 4.5 V to 5.5 V | | 0.8 | 2.9 | 3.5 | 0.8 | 3.5 | ns |
| t _{b-m} | break-before-make | see Figure 17 | [6] | | | | | | |
| | 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 |

[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).

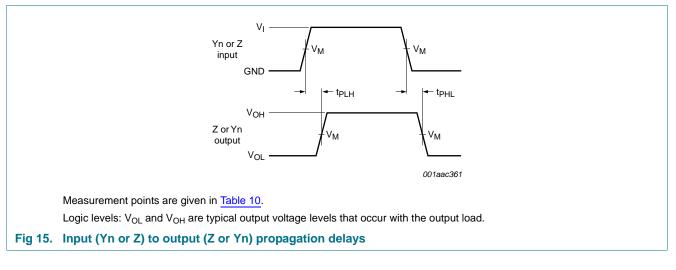
[4] t_{en} is the same as t_{PZH} and t_{PZL} .

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

[6] Break-before-make specified by design.

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11.1 Waveforms and test circuits



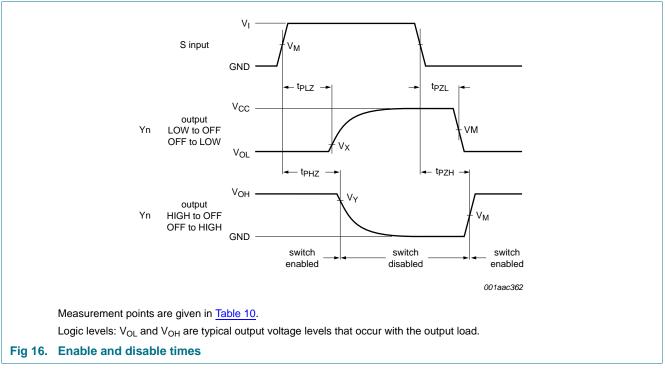
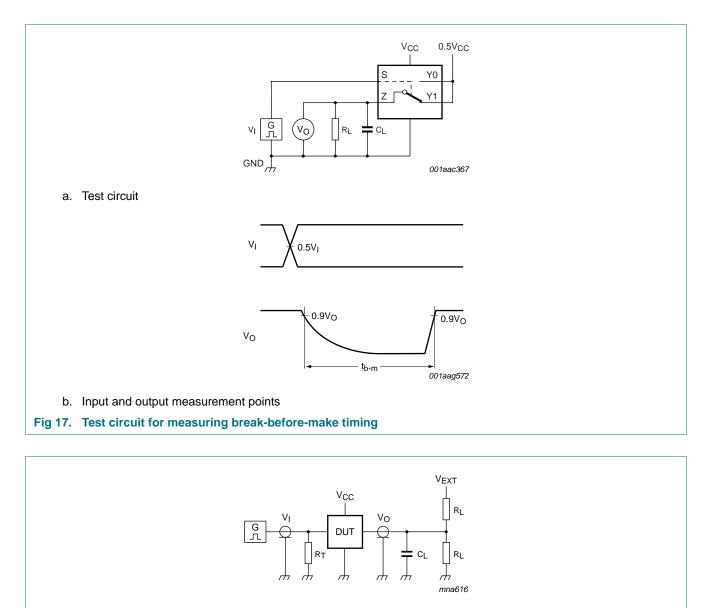


Table 10.Measurement points

| 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 | | |

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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 18. Test circuit for measuring switching times

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Table 11. Test data

| Supply voltage | Input | | Load | | V _{EXT} | | |
|------------------|-----------------|---------------------------------|-------|-------|-------------------------------------|-------------------------------------|------------------------------------|
| V _{CC} | VI | t _r , t _f | CL | RL | t _{PLH} , t _{PHL} | t _{PZH} , t _{PHZ} | t _{PZL,} t _{PLZ} |
| 1.65 V to 1.95 V | V _{CC} | \leq 2.0 ns | 50 pF | 500 Ω | open | GND | 2V _{CC} |
| 2.3 V to 2.7 V | V _{CC} | \leq 2.0 ns | 50 pF | 500 Ω | open | GND | 2V _{CC} |
| 2.7 V | V _{CC} | \leq 2.5 ns | 50 pF | 500 Ω | open | GND | 2V _{CC} |
| 3 V to 3.6 V | V _{CC} | \leq 2.5 ns | 50 pF | 500 Ω | open | GND | 2V _{CC} |
| 4.5 V to 5.5 V | V _{CC} | \leq 2.5 ns | 50 pF | 500 Ω | open | GND | 2V _{CC} |

11.2 Additional dynamic characteristics

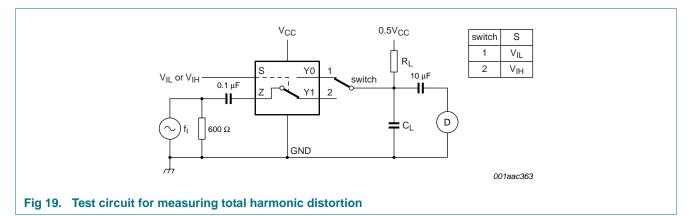
Table 12. Additional dynamic characteristics

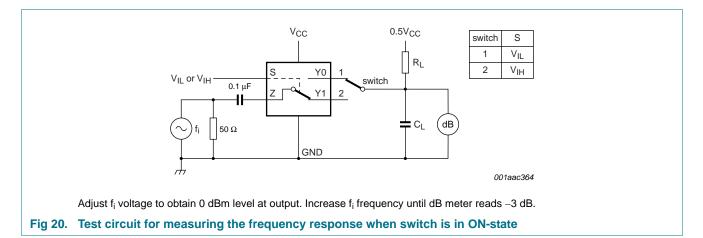
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); T_{amb} = 25 °C.

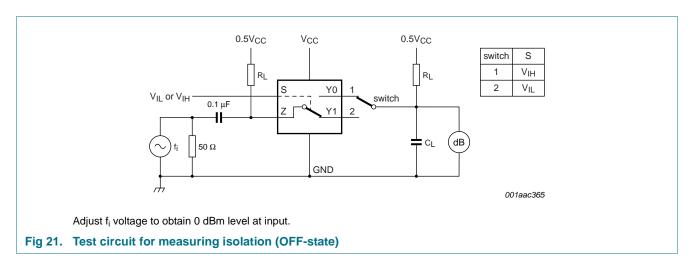
| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|---------------------|---------------------------|--|-----|-------|-----|------|
| THD | total harmonic distortion | $ f_i = 600 \text{ Hz to } 20 \text{ kHz; } R_L = 600 \Omega; \\ C_L = 50 \text{ pF; } V_I = 0.5 \text{ V (p-p);} \\ see Figure 19 $ | | | | |
| | | 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 | $R_L = 50 \Omega$; $C_L = 5 pF$; see <u>Figure 20</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) | $R_L = 50 \Omega$; $C_L = 5 pF$; $f_i = 10 MHz$; see <u>Figure 21</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 | $C_L = 0.1 \text{ nF}; V_{gen} = 0 \text{ V}; R_{gen} = 0 \Omega;$ $f_i = 1 \text{ MHz}; R_L = 1 \text{ M}\Omega; \text{ see } \frac{\text{Figure 22}}{10000000000000000000000000000000000$ | | | | |
| | | 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 |

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11.3 Test circuits



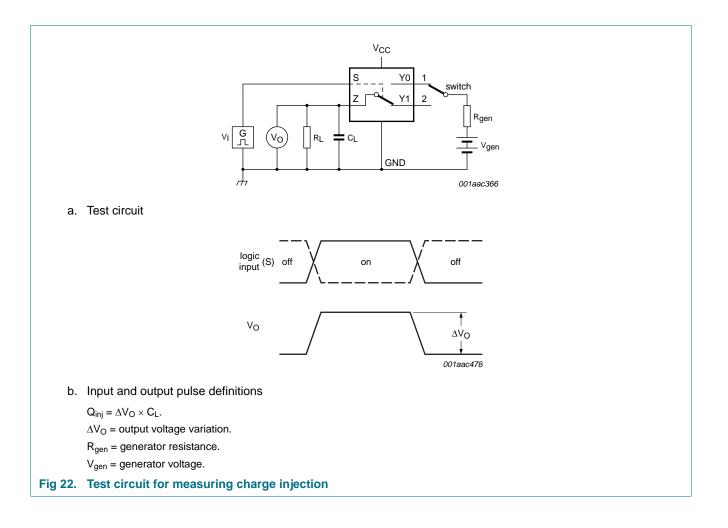




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2-channel analog multiplexer/demultiplexer

12. Package outline

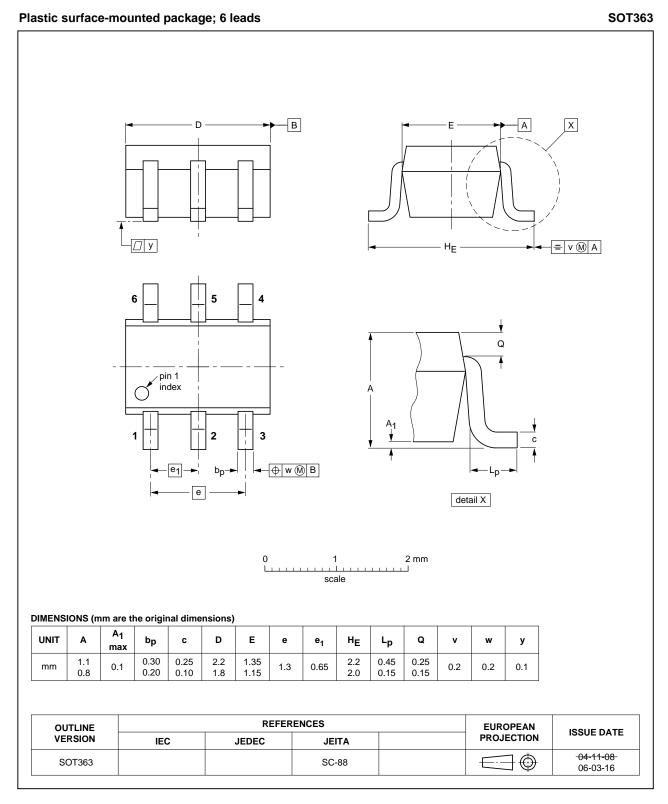
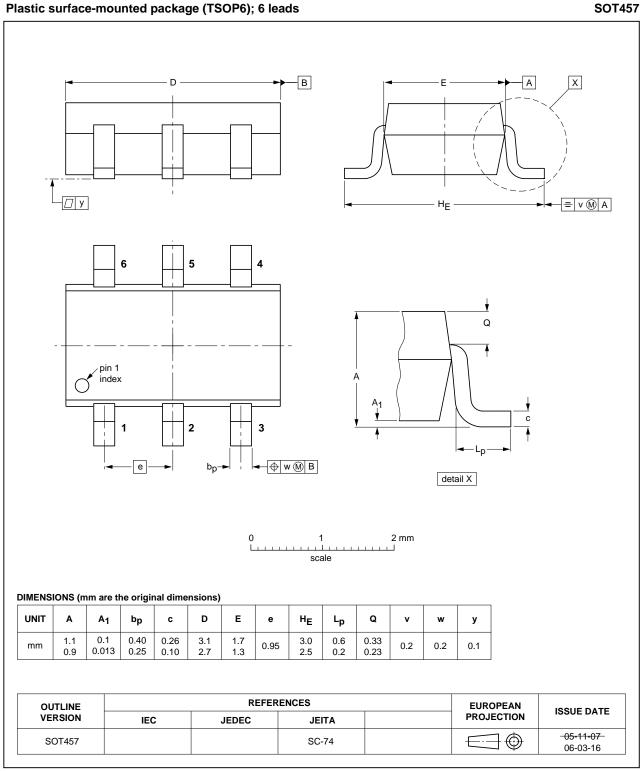


Fig 23. Package outline SOT363 (SC-88)

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Plastic surface-mounted package (TSOP6); 6 leads

Fig 24. Package outline SOT457 (SC-74)

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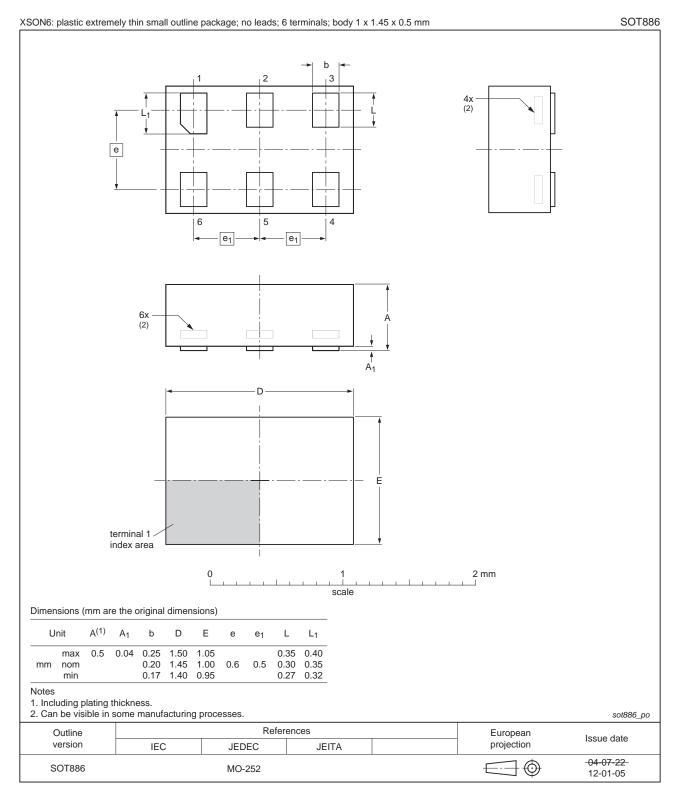


Fig 25. Package outline SOT886 (XSON6)

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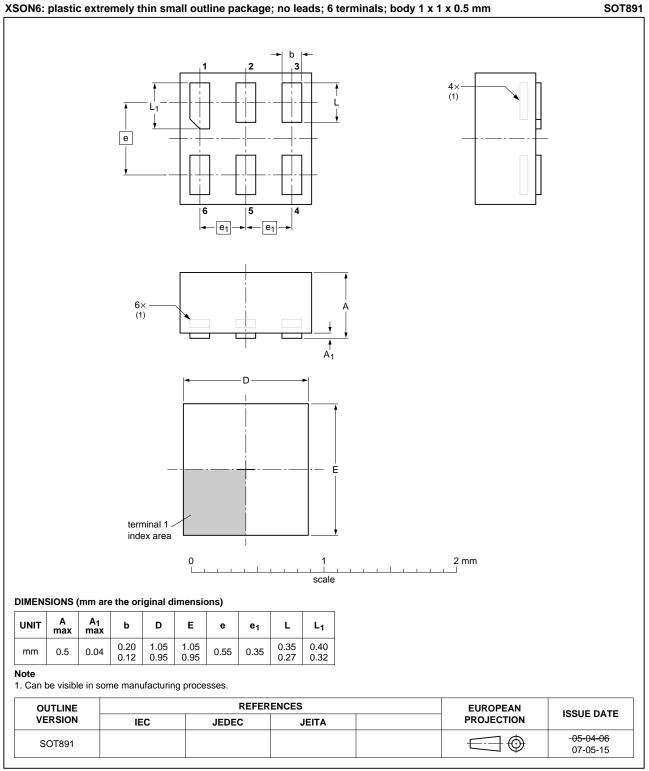
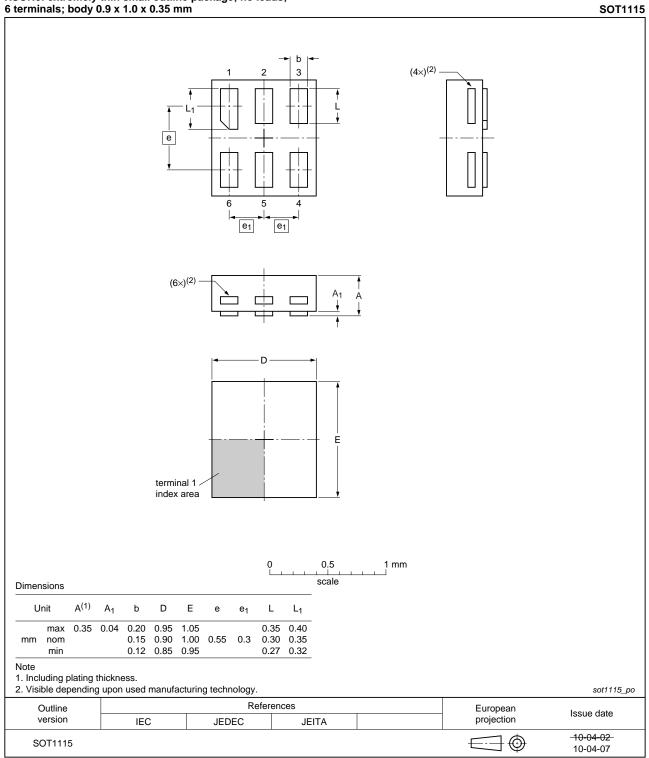


Fig 26. Package outline SOT891 (XSON6)

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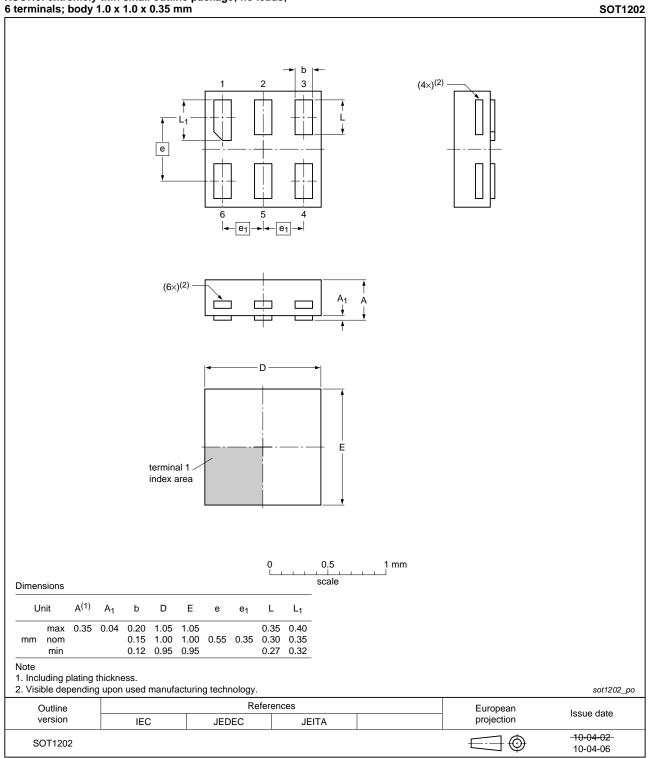
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XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

Fig 27. 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 28. Package outline SOT1202 (XSON6)

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13. Abbreviations

| Table 13. Abbreviations | | |
|-------------------------|---|--|
| Acronym | Description | |
| CMOS | Complementary Metal Oxide Semiconductor | |
| TTL | Transistor-Transistor Logic | |
| HBM | Human Body Model | |
| ESD | ElectroStatic Discharge | |
| MM | Machine Model | |
| DUT | Device Under Test | |
| - | | |

14. Revision history

| Table 14. Revision his | tory | | | |
|------------------------|---------------------------------|------------------------------|-----------------|-----------------|
| Document ID | Release date | Data sheet status | Change notice | Supersedes |
| 74LVC1G3157 v.5 | 20121206 | Product data sheet | - | 74LVC1G3157 v.4 |
| Modifications: | Package out | ine drawing of SOT886 (Figur | e 25) 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 | - | - |

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15. Legal information

15.1 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 URL http://www.nxp.com.

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