74LVC1G53 2-channel analog multiplexer/demultiplexer Rev. 11 — 16 January 2018

Product data sheet

General description 1

The 74LVC1G53 is a low-power, low-voltage, high-speed, Si-gate CMOS device.

The 74LVC1G53 provides one analog multiplexer/demultiplexer with a digital select input (S), two independent inputs/outputs (Y0 and Y1), a common input/output (Z) and an active LOW enable input (\overline{E}) . When pin \overline{E} is HIGH, the switch is turned off.

Schmitt trigger action at the select and enable inputs 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 2

- 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
- 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
 - CDM JESD22-C101E exceeds 1000 V
- · Control inputs accept voltages up to 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
74LVC1G53DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2
74LVC1G53DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74LVC1G53GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 x 1.95 x 0.5 mm	SOT833-1
74LVC1G53GF	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 x 1 x 0.5 mm	SOT1089
74LVC1G53GM	-40 °C to +125 °C	XQFN8	plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 x 1.6 x 0.5 mm	SOT902-2
74LVC1G53GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 x 1.0 x 0.35 mm	SOT1116
74LVC1G53GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 x 1.0 x 0.35 mm	SOT1203

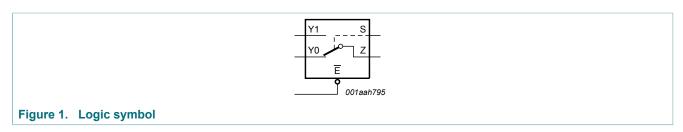
4 Marking

Table 2. Marking codes

Type number	Marking code ^[1]
74LVC1G53DC	V53
74LVC1G53DP	V53
74LVC1G53GT	V53
74LVC1G53GF	V3
74LVC1G53GM	V53
74LVC1G53GN	V3
74LVC1G53GS	V3

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

5 Functional diagram

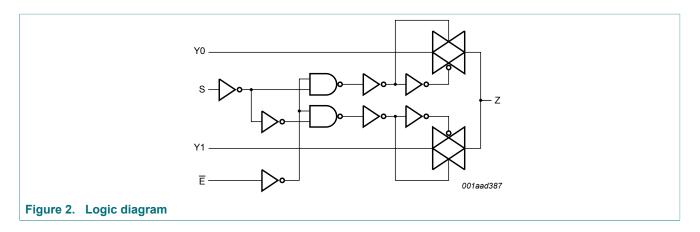


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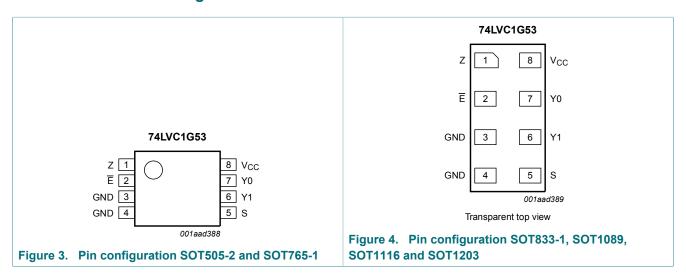
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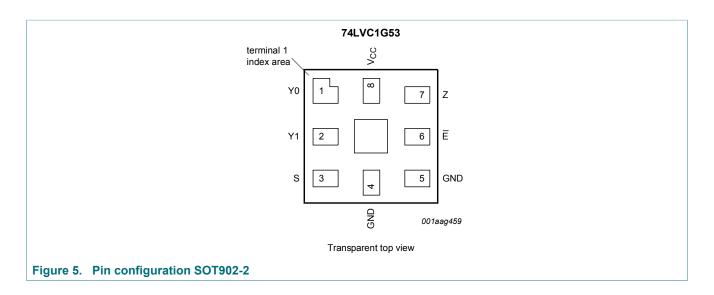
2-channel analog multiplexer/demultiplexer



6 Pinning information

6.1 Pinning





6.2 Pin description

Table 3. Pin description

Symbol	Pin		Description
	SOT505-2, SOT765-1, SOT833-1, SOT1089, SOT1116 and SOT1203	SOT902-2	
Z	1	7	common output or input
Ē	2	6	enable input (active LOW)
GND	3	5	ground (0 V)
GND	4	4	ground (0 V)
S	5	3	select input
Y1	6	2	independent input or output
Y0	7	1	independent input or output
V _{CC}	8	8	supply voltage

7 Functional description

Table 4. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = don't \ care; \ Z = high-impedance \ OFF-state.$

Input		Channel on
S	E	
L	L	Y0 to Z or Z to Y0
Н	L	Y1 to Z or Z to Y1
Х	Н	Z (switch off)

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 °C to +125 °C	[3]	-	250	mW

Recommended operating conditions 9

Table 6. Operating conditions

Symbol	Parameter	Conditions		Min	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.

The minimum input voltage rating may be exceeded if the input current rating is observed. The minimum and maximum switch voltage ratings may be exceeded if the switch clamping current rating is observed. For TSSOP8 packages: above 55 °C the value of P_{tot} derates linearly with 2.5 mW/K.

For VSSOP8 packages: above 110 °C the value of Ptot derates linearly with 8.0 mW/K. For XSON8 and XQFN8 packages: above 118 °C the value of Ptot derates linearly with 7.8 mW/K.

^[2] Applies to control signal levels.

10 Static characteristics

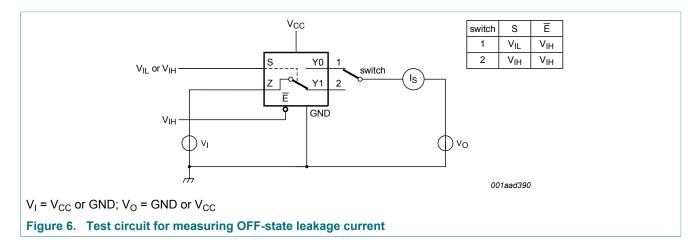
Table 7. Static characteristics

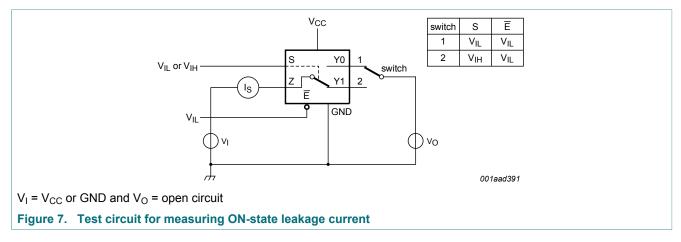
At recommended operating conditions; voltages are referenced to GND (ground 0 V).

Symbol	Parameter	Conditions		T _{amb} = -	40 °C to	+85 °C	T _{amb} = -40 °	C to +125 °C	Unit
				Min	Typ ^[1]	Max	Min	Max	
V_{IH}	HIGH-level	V _{CC} = 1.65 V to 1.95 V		0.65xV _{CC}	-	-	0.65xV _{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	-	٧
l		V _{CC} = 4.5 V to 5.5 V		0.7xV _{CC}	-	-	0.7xV _{CC}	-	V
V_{IL}		V _{CC} = 1.65 V to 1.95 V		-	-	$0.35xV_{CC}$	-	0.35xV _{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		-	-	0.3xV _{CC}	-	0.3xV _{CC}	V
I _I	input leakage current	pin S and pin E; 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 6</u>	[2]	-	±0.1	±0.2	-	±0.5	μΑ
I _{S(ON)}	ON-state leakage current	V _{CC} = 5.5 V; see <u>Figure 7</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 and pin \overline{E} ; $V_1 = V_{CC} - 0.6 \text{ V}$; $V_{SW} = \text{GND or } V_{CC}$; $V_{CC} = 5.5 \text{ V}$	[2]	-	5	500	-	5 00	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. [2] These typical values are measured at V_{CC} = 3.3 V.

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

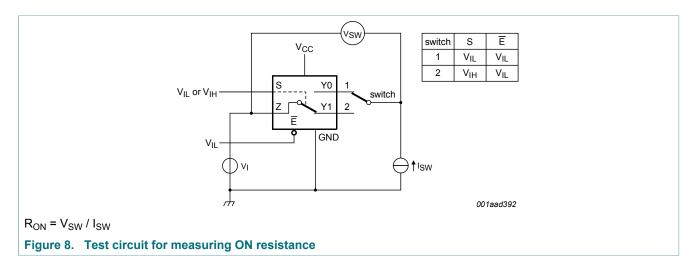
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Symbol	Parameter	Conditions	-40 °	°C to +8	5°C	-40 °C to	+125 °C	Unit
			Min	Typ ^[1]	Max	Min	Max	
R _{ON(rail)}	ON resistance (rail)	V _I = GND; see <u>Figure 8</u>						
		I _{SW} = 4 mA; V _{CC} = 1.65 V to 1.95 V	-	8.2	18	-	27	Ω
		I_{SW} = 8 mA; 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	$V_I = GND \text{ to } V_{CC}$ [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

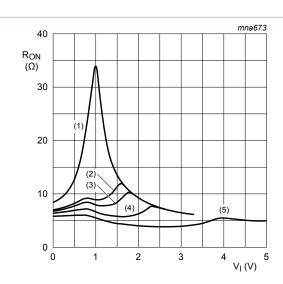
10.3 ON resistance test circuit and graphs



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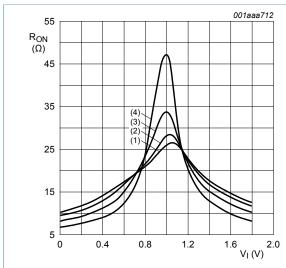
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Typical values are measured at T_{amb} = 25 °C and nominal V_{CC}.
 Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V_{CC} and temperature.



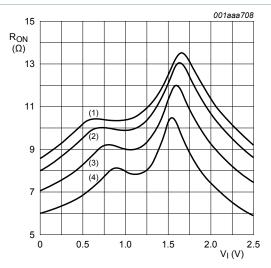
- (1) $V_{CC} = 1.8 \text{ V}$
- (2) $V_{CC} = 2.5 \text{ V}$
- $(3) V_{CC} = 2.7 V$
- (4) $V_{CC} = 3.3 \text{ V}$
- $(5) V_{CC} = 5.0 V$

Figure 9. Typical ON resistance as a function of input voltage; T_{amb} = 25 °C



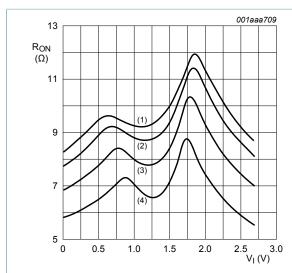
- (1) T_{amb} = 125 °C
- (2) T_{amb} = 85 °C
- (3) $T_{amb} = 25 \, ^{\circ}C$
- (4) T_{amb} = -40 °C

Figure 10. ON resistance as a function of input voltage; $V_{CC} = 1.8 \text{ V}$



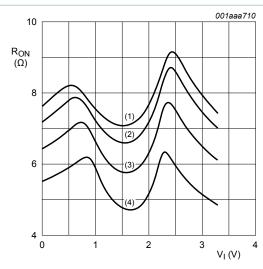
- (1) $T_{amb} = 125 \, ^{\circ}C$
- (2) T_{amb} = 85 °C
- (3) $T_{amb} = 25 \, ^{\circ}C$
- (4) $T_{amb} = -40 \, ^{\circ}C$

Figure 11. ON resistance as a function of input voltage; $V_{CC} = 2.5 \text{ V}$



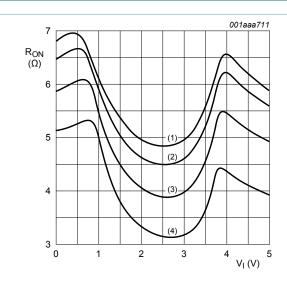
- (1) T_{amb} = 125 °C
- (2) T_{amb} = 85 °C
- (3) $T_{amb} = 25 \, ^{\circ}C$
- (4) $T_{amb} = -40 \, ^{\circ}C$

Figure 12. ON resistance as a function of input voltage; $V_{CC} = 2.7 \text{ V}$



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

Figure 13. ON resistance as a function of input voltage; V_{CC} = 3.3 V



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

Figure 14. 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 17.

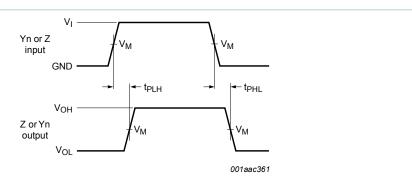
Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
			Min	Typ ^[1]	Max	Min	Max	
t _{pd}	propagation delay	Z to Yn or Yn to Z; see Figure 15 [2] [3]						
		V _{CC} = 1.65 V to 1.95 V	-	-	2	-	2.5	ns
		V _{CC} = 2.3 V to 2.7 V	-	-	1.2	-	1.5	ns
		V _{CC} = 2.7 V	-	-	1.0	-	1.25	ns
		V _{CC} = 3.0 V to 3.6 V	-	-	8.0	-	1.0	ns
		V _{CC} = 4.5 V to 5.5 V	-	-	0.6	-	0.8	ns
t _{en}	enable time	S to Z or Yn; see Figure 16 [2]						
		V _{CC} = 1.65 V to 1.95 V	2.6	6.7	10.3	2.6	12.9	ns
		V _{CC} = 2.3 V to 2.7 V	1.9	4.1	6.4	1.9	8.0	ns
		V _{CC} = 2.7 V	1.9	4.0	5.5	1.8	7.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.8	3.4	5.0	1.8	6.3	ns
		V _{CC} = 4.5 V to 5.5 V	1.3	2.6	3.8	1.3	4.8	ns
		E to Z or Yn; see Figure 16 [2]						
		V _{CC} = 1.65 V to 1.95 V	1.9	4.0	7.3	1.9	9.2	ns
		V _{CC} = 2.3 V to 2.7 V	1.4	2.5	4.4	1.4	5.5	ns
		V _{CC} = 2.7 V	1.1	2.6	3.9	1.1	4.9	ns
		V _{CC} = 3.0 V to 3.6 V	1.2	2.2	3.8	1.2	4.8	ns
		V _{CC} = 4.5 V to 5.5 V	1.0	1.7	2.6	1.0	3.3	ns
t _{dis}	disable time	S to Z or Yn; see Figure 16 [2]						
		V _{CC} = 1.65 V to 1.95 V	2.1	6.8	10.0	2.1	12.5	ns
		V _{CC} = 2.3 V to 2.7 V	1.4	3.7	6.1	1.4	7.7	ns
		V _{CC} = 2.7 V	1.4	4.9	6.2	1.4	7.8	ns
		V _{CC} = 3.0 V to 3.6 V	1.1	4.0	5.4	1.1	6.8	ns
		V _{CC} = 4.5 V to 5.5 V	1.0	2.9	3.8	1.0	4.8	ns
		E to Z or Yn; see Figure 16						
		V _{CC} = 1.65 V to 1.95 V	2.3	5.6	8.6	2.3	11.0	ns
		V _{CC} = 2.3 V to 2.7 V	1.2	3.2	4.8	1.2	6.0	ns
		V _{CC} = 2.7 V	1.4	4.0	5.2	1.4	6.5	ns
		V _{CC} = 3.0 V to 3.6 V	2.0	3.7	5.0	2.0	6.3	ns
		V _{CC} = 4.5 V to 5.5 V	1.3	2.9	3.8	1.3	4.8	ns

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Typical values are measured at T_{amb} = 25 °C and nominal V_{CC}.
 t_{pd} is the same as t_{PLH} and t_{PHL}; t_{en} is the same as t_{PZH} and t_{PZL}; t_{dis} is the same as t_{PLZ} and t_{PHZ}
 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).

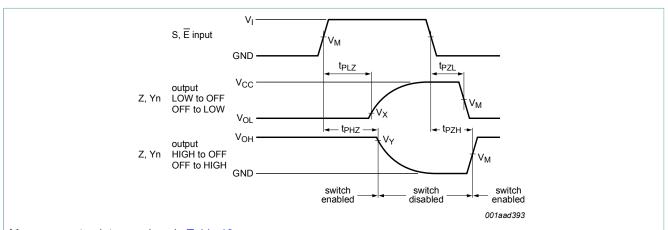
11.1 Waveforms and test circuits



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



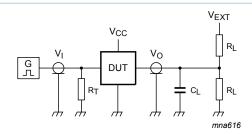
Measurement points are given in Table 10.

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

Figure 16. 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 2.7 V	0.5 x V _{CC}	0.5 x V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V
2.7 V to 5.5 V	0.5 x V _{CC}	0.5 x 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 17. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	Input		Load			V _{EXT}			
V _{CC}	Vı	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	30 pF	1 kΩ	open	GND	2 × V _{CC}		
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 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.

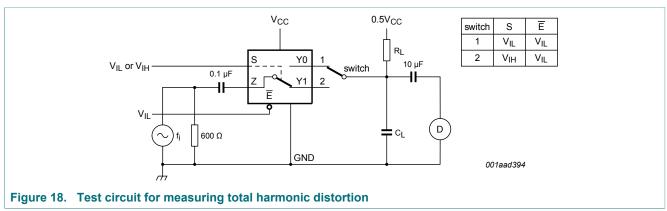
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD	total harmonic distortion	f_i = 600 Hz to 20 kHz; R _L = 600 Ω ; C _L = 50 pF; V _I = 0.5 V (p-p); see <u>Figure 18</u>				
		V _{CC} = 1.65 V	-	0.260	-	%
		V _{CC} = 2.3 V	-	0.078	-	%
		V _{CC} = 3.0 V	-	0.078	-	%
		V _{CC} = 4.5 V	-	0.078	-	%
f _(-3dB)	-3 dB frequency response	$R_L = 50 \Omega$; $C_L = 5 pF$; see Figure 19				
		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

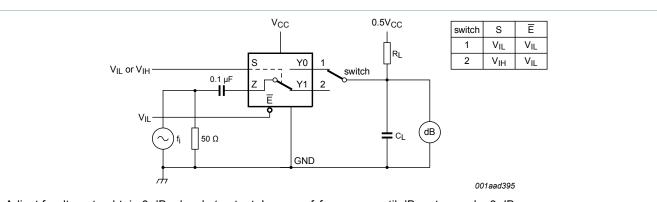
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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$\alpha_{\rm iso}$	isolation (OFF-state)	R_L = 50 Ω ; C_L = 5 pF; f_i = 10 MHz; see Figure 20				
		V _{CC} = 1.65 V	-	-42	-	dB
		V _{CC} = 2.3 V	-	-42	-	dB
		V _{CC} = 3.0 V	-	-40	-	dB
		V _{CC} = 4.5 V	-	-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 21</u>				
		V _{CC} = 1.8 V	-	3.3	-	pC
		V _{CC} = 2.5 V	-	4.1	-	рС
		V _{CC} = 3.3 V	-	5.0	-	рС
		V _{CC} = 4.5 V	-	6.4	-	pC
		V _{CC} = 5.5 V	-	7.5	-	pC

11.3 Test circuits

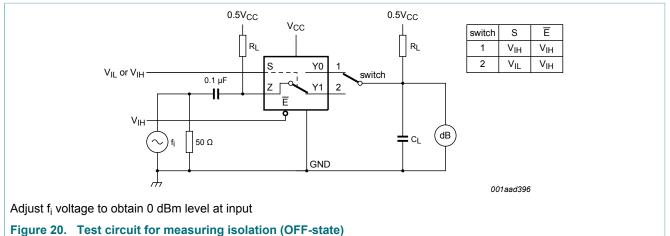


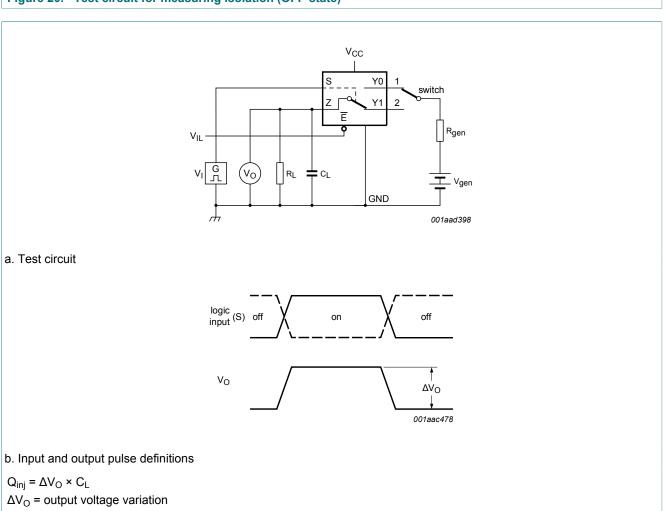


Adjust f_i voltage to obtain 0 dBm level at output. Increase f_i frequency until dB meter reads -3 dB Figure 19. Test circuit for measuring the frequency response when switch is in ON-state

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R_{gen} = generator resistance

V_{gen} = generator voltage

Figure 21. Test circuit for measuring charge injection

12 Package outline

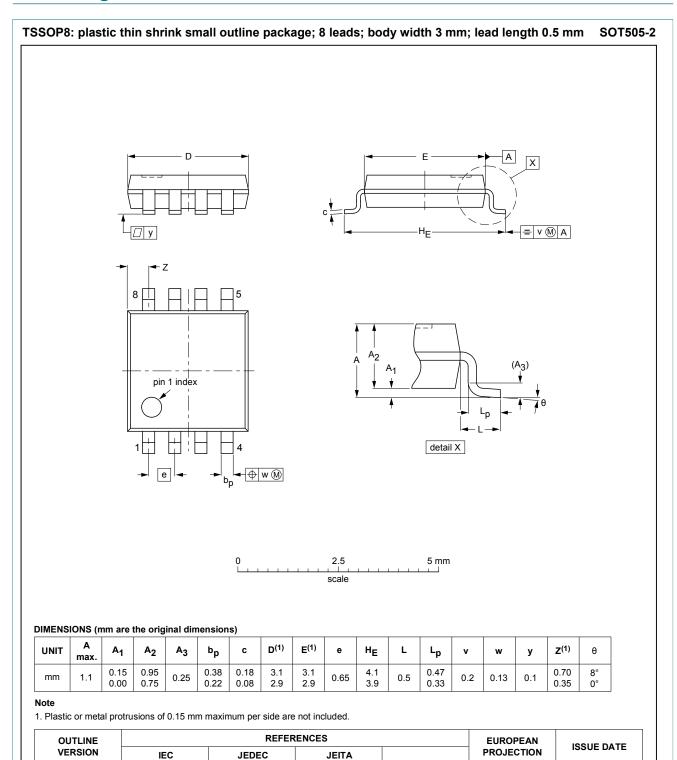


Figure 22. Package outline SOT505-2 (TSSOP8)

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SOT505-2

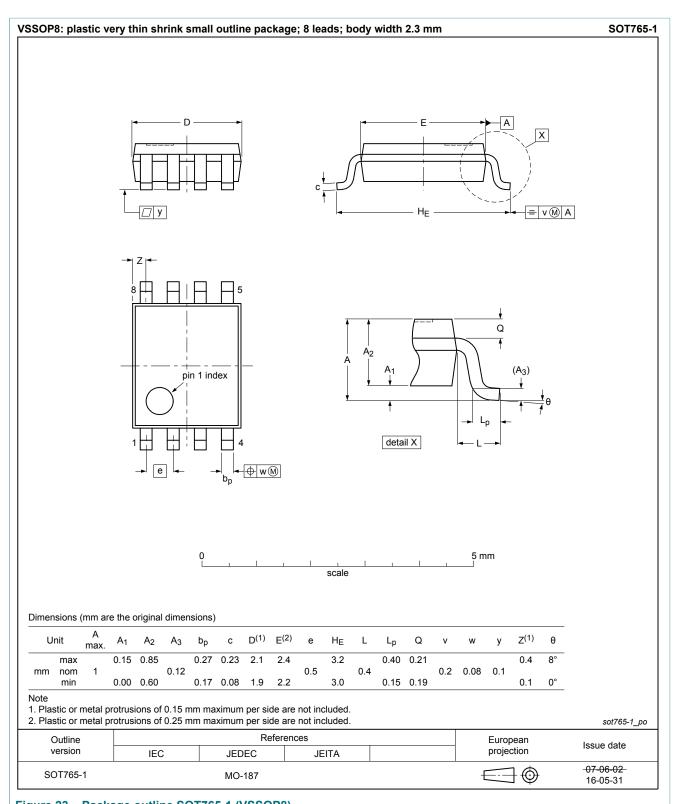


Figure 23. Package outline SOT765-1 (VSSOP8)

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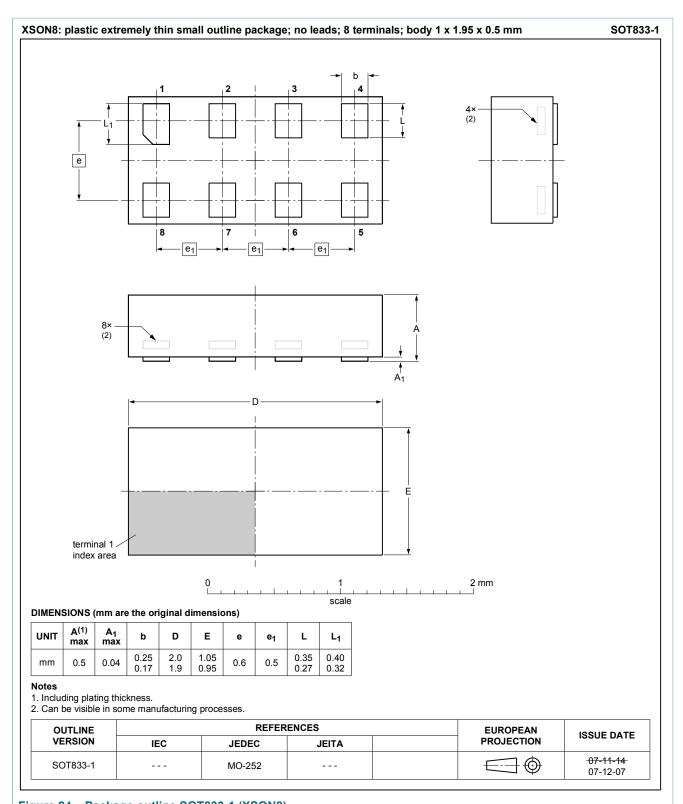
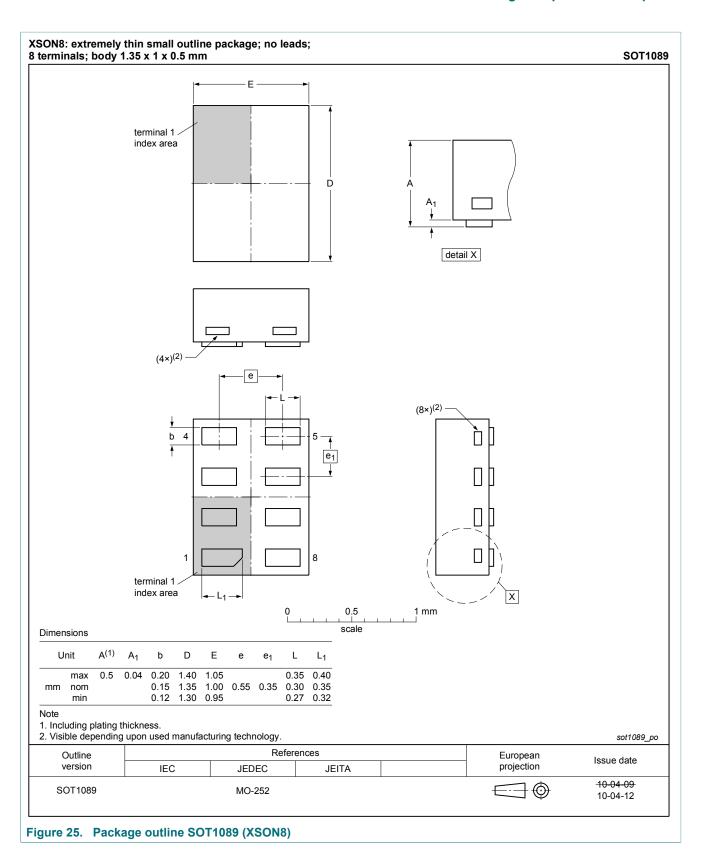
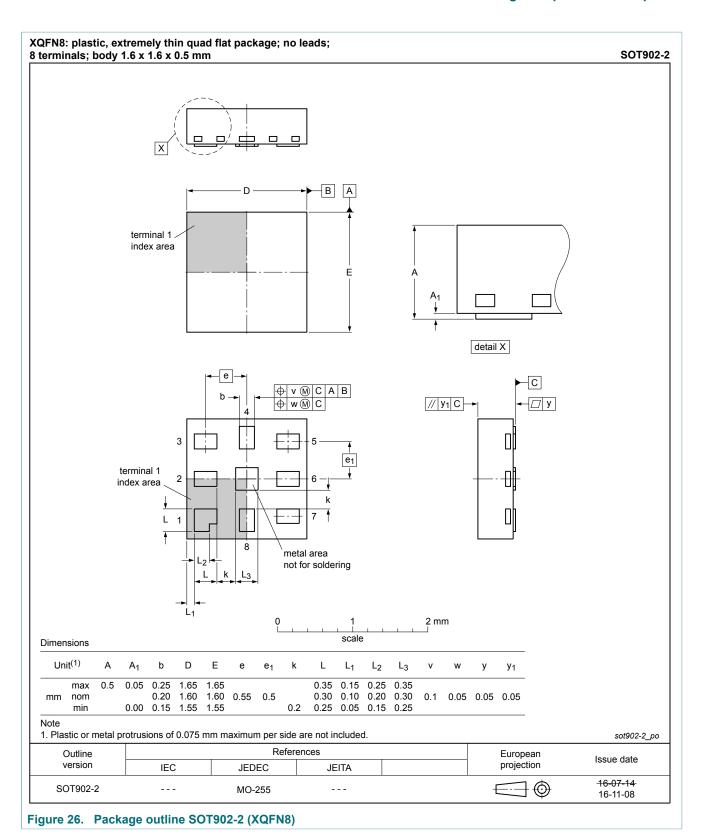


Figure 24. Package outline SOT833-1 (XSON8)



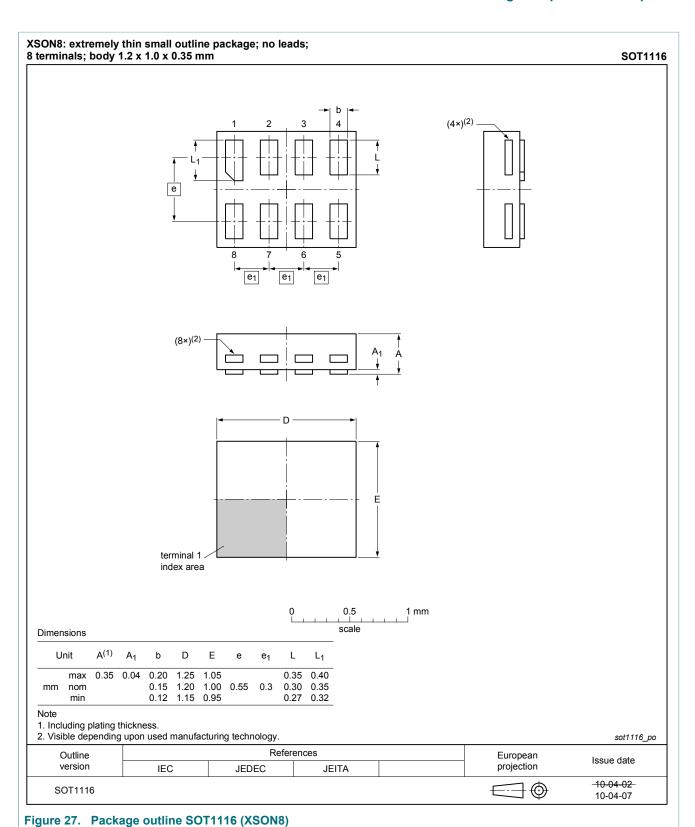
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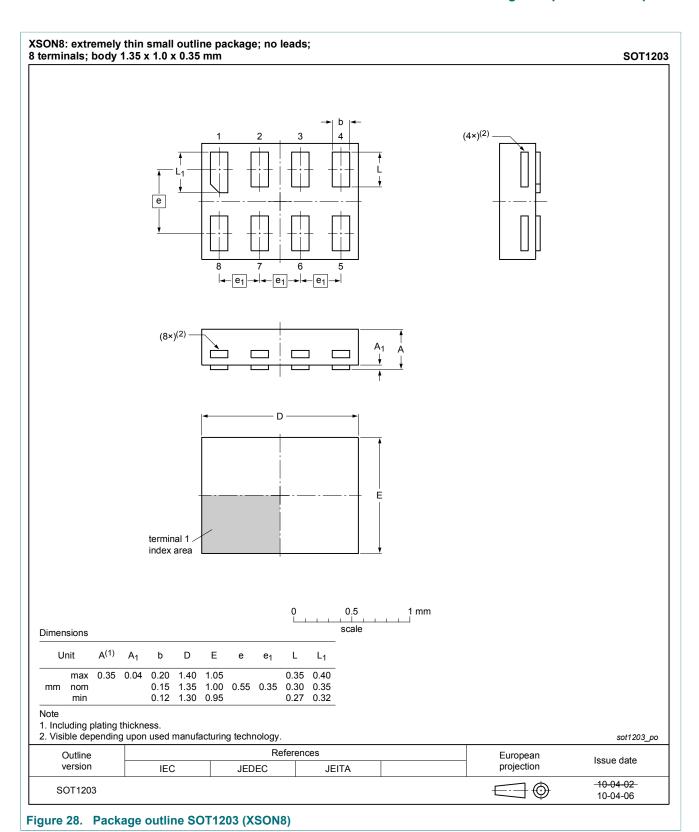
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13 Abbreviations

Table 13. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
TTL	Transistor-Transistor Logic
HBM	Human Body Model
ESD	ElectroStatic Discharge
MM	Machine Model
CDM	Charged Device Model
DUT	Device Under Test

14 Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G53 v.11	20180116	Product data sheet	-	74LVC1G53 v.10
Modifications:	Nexperia. • Legal texts ha	this data sheet has been redesive been adapted to the new cor74LVC1G53GD (SOT996-2 / X	mpany name where	
74LVC1G53 v.10	20161207	Product data sheet	-	74LVC1G53 v.9
Modifications:	• Table 7: The n	naximum limits for leakage curre	ent and supply curre	nt have changed.
74LVC1G53 v.9	20130405	Product data sheet	-	74LVC1G53 v.8
Modifications:	For type numb	per 74LVC1G53GD XSON8U ha	as changed to XSON	8.
74LVC1G53 v.8	20120622	Product data sheet	-	74LVC1G53 v.7
Modifications:	For type numb	per 74LVC1G53GM the SOT co	de has changed to S	OT902-2.
74LVC1G53 v.7	20111206	Product data sheet	-	74LVC1G53 v.6
Modifications:	Legal pages u	pdated.		
74LVC1G53 v.6	20100621	Product data sheet	-	74LVC1G53 v.5
74LVC1G53 v.5	20080611	Product data sheet	-	74LVC1G53 v.4
74LVC1G53 v.4	20080303	Product data sheet	-	74LVC1G53 v.3
74LVC1G53 v.3	20070829	Product data sheet	-	74LVC1G53 v.2
74LVC1G53 v.2	20060410	Product data sheet	-	74LVC1G53 v.1
74LVC1G53 v.1	20060110	Product data sheet	-	-

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.

- 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]
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Nexperia 74LVC1G53

2-channel analog multiplexer/demultiplexer

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