imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



2-channel analog multiplexer/demultiplexer Rev. 10 — 15 December 2016

Product data sheet

General description 1.

The 74LVC2G53 is a low-power, low-voltage, high-speed, Si-gate CMOS device.

The 74LVC2G53 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 (E). When pin 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:
 - 7.5 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
- 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



2-channel analog multiplexer/demultiplexer

3. Ordering information

Table 1.Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC2G53DP	–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
74LVC2G53DC	–40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74LVC2G53GT	–40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 \times 1.95 \times 0.5 mm	SOT833-1
74LVC2G53GF	–40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body $1.35 \times 1 \times 0.5$ mm	SOT1089
74LVC2G53GD	–40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body $3 \times 2 \times 0.5$ mm	SOT996-2
74LVC2G53GM	–40 °C to +125 °C	XQFN8	plastic, extremely thin quad flat package; no leads; 8 terminals; body $1.6 \times 1.6 \times 0.5$ mm	SOT902-2
74LVC2G53GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body $1.2 \times 1.0 \times 0.35$ mm	SOT1116
74LVC2G53GS	–40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body $1.35 \times 1.0 \times 0.35$ mm	SOT1203

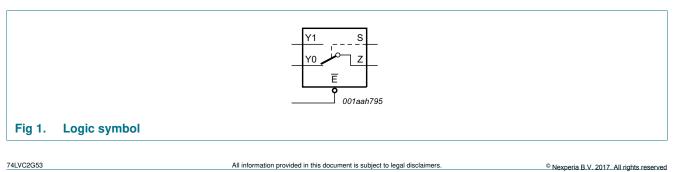
4. Marking

Table 2. Marking codes

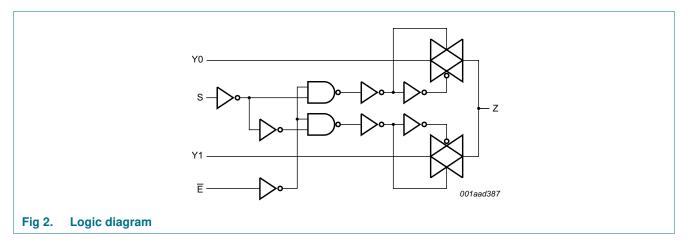
Type number	Marking code ^[1]
74LVC2G53DC	V53
74LVC2G53DP	V53
74LVC2G53GT	V53
74LVC2G53GF	V3
74LVC2G53GD	V53
74LVC2G53GM	V53
74LVC2G53GN	V3
74LVC2G53GS	V3

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

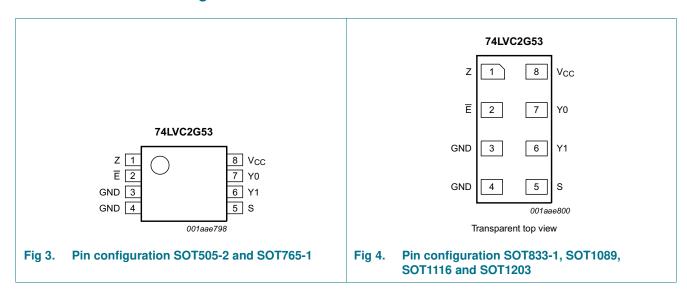
5. Functional diagram



2-channel analog multiplexer/demultiplexer



6. Pinning information

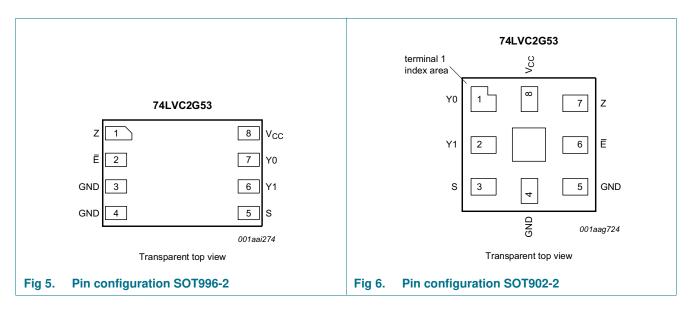


6.1 Pinning

.

74LVC2G53

2-channel analog multiplexer/demultiplexer



6.2 Pin description

Symbol	Pin	Pin				
	SOT505-2, SOT765-1, SOT833-1, SOT1089, SOT996-2, 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^[1]

Input		Channel on
S	Ē	
L	L	Y0 to Z or Z to Y0
Н	L	Y1 to Z or Z to Y1
X	Н	Z (switch off)

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

74LVC2G53 Product data sheet

2-channel analog multiplexer/demultiplexer

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
l _{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 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	$T_{amb} = -40 \ ^{\circ}C \ to \ +125 \ ^{\circ}C$	[3]	-	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 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 P_{tot} derates linearly with 8.0 mW/K.
 For XSON8 and XQFN8 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

9. Recommended operating conditions

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
$\Delta t / \Delta V$	input transition rise and fall rate	$V_{CC} = 1.65 \text{ V} \text{ to } 2.7 \text{ V}$	[2]	-	20	ns/V
		$V_{CC} = 2.7 \text{ V} \text{ to } 5.5 \text{ V}$	[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.

[2] Applies to control signal levels.

2-channel analog multiplexer/demultiplexer

10. Static characteristics

Table 7. Static characteristics

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

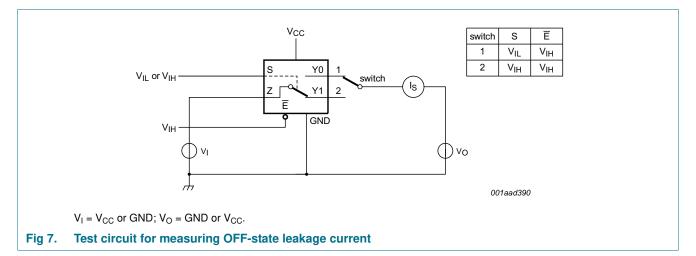
Symbol	Parameter	Conditions		T _{amb} = -	40 °C to	o +85 °C	$T_{amb} = -40$ °	C to +125 °C	Unit
				Min	Typ <mark>[1]</mark>	Max	Min	Max	
VIH	HIGH-level	V _{CC} = 1.65 V to 1.95 V		$0.65 imes V_{CC}$	-	-	$0.65 imes V_{CC}$	-	V
	input voltage	V _{CC} = 2.3 V to 2.7 V		1.7	-	-	1.7	-	V
		V _{CC} = 3 V to 3.6 V		2.0	-	-	2.0	-	V
		V _{CC} = 4.5 V to 5.5 V		$0.7\times V_{CC}$	-	-	$0.7 imes V_{CC}$	-	V
V _{IL}	LOW-level	V _{CC} = 1.65 V to 1.95 V		-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	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		-	-	$0.3\times V_{CC}$		$0.3 \times V_{CC}$	V
I _I	input leakage current	pin S and pin \overline{E} ; V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	[2]	-	±0.1	±1	-	±1	μA
I _{S(OFF)}	OFF-state leakage current	V _{CC} = 5.5 V; see <u>Figure 7</u>	[2]	-	±0.1	±0.2	-	±0.5	μA
I _{S(ON)}	ON-state leakage current	V _{CC} = 5.5 V; see <u>Figure 8</u>	[2]	-	±0.1	±1	-	±2	μA
I _{CC}	supply current		[2]	-	0.1	4	-	4	μA
Δl _{CC}	additional supply current	pin S and pin \overline{E} ; V _I = V _{CC} - 0.6 V; V _{SW} = GND or V _{CC} ; V _{CC} = 5.5 V	[2]	-	5	500	-	500	μA
CI	input capacitance			-	2.5	-	-	-	pF
$C_{S(OFF)}$	OFF-state capacitance			-	6.0	-	-	-	pF
C _{S(ON)}	ON-state capacitance			-	18	-	-	-	pF

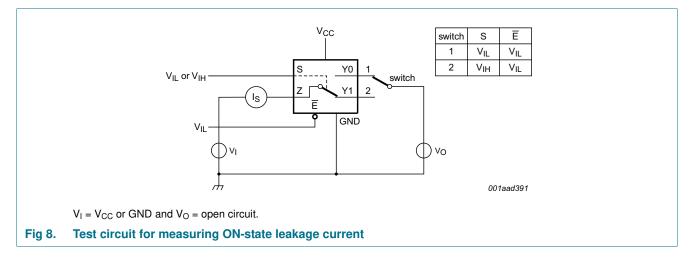
[1] Typical values are measured at T_{amb} = 25 °C.

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

2-channel analog multiplexer/demultiplexer

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 10 to Figure 15.

Symbol	Parameter	Conditions	-40	°C to +8	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 <u>Figure 9</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
		$I_{SW} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	10.4	25	-	38	Ω
		$I_{SW} = 24 \text{ mA}; V_{CC} = 3 \text{ V to } 3.6 \text{ V}$	-	7.8	20	-	30	Ω
		I_{SW} = 32 mA; V_{CC} = 4.5 V to 5.5 V	-	6.2	15	-	23	Ω

74LVC2G53 Product data sheet

2-channel analog multiplexer/demultiplexer

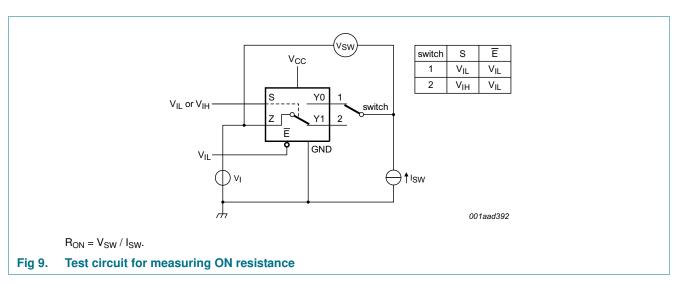
Symbol	Parameter	Conditions	-40	°C to +8	85 °C	–40 °C te	o +125 °C	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
R _{ON(rail)}	ON resistance (rail)	V _I = GND; see <u>Figure 9</u>						
		I _{SW} = 4 mA; V _{CC} = 1.65 V to 1.95 V	-	8.2	18	-	27	Ω
		I_{SW} = 8 mA; V_{CC} = 2.3 V to 2.7 V	-	7.1	16	-	24	Ω
		I _{SW} = 12 mA; V _{CC} = 2.7 V	-	6.9	14	-	21	Ω
		$I_{SW} = 24 \text{ mA}; V_{CC} = 3 \text{ V to } 3.6 \text{ V}$	-	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
		$I_{SW} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	3.5	-	-	-	Ω
		$I_{SW} = 24 \text{ mA}; V_{CC} = 3 \text{ V to } 3.6 \text{ V}$	-	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 10 to Figure 15.

[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.

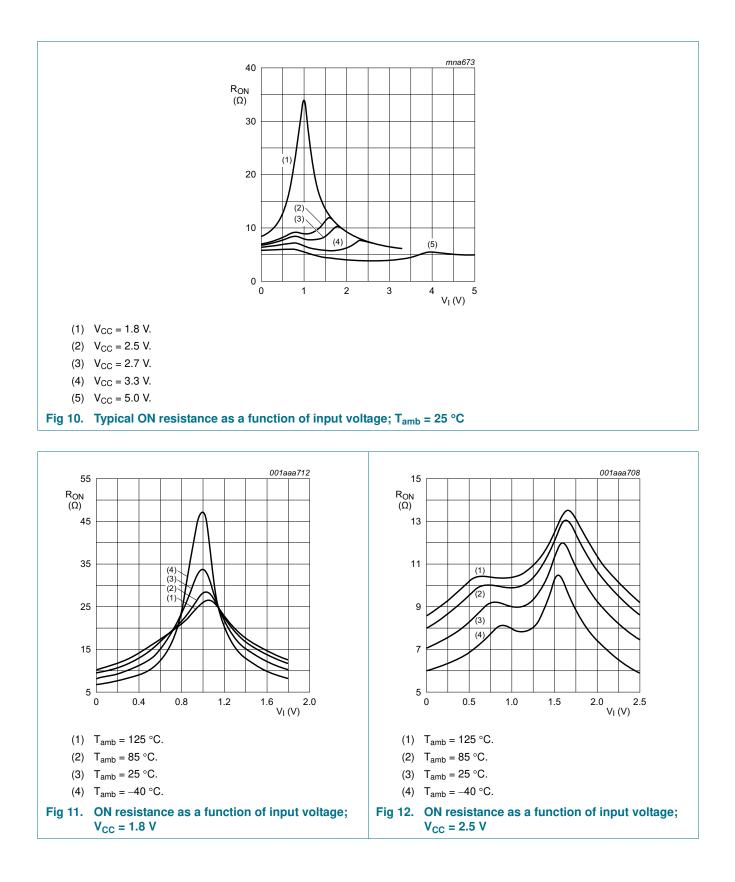


10.3 ON resistance test circuit and graphs

Nexperia

74LVC2G53

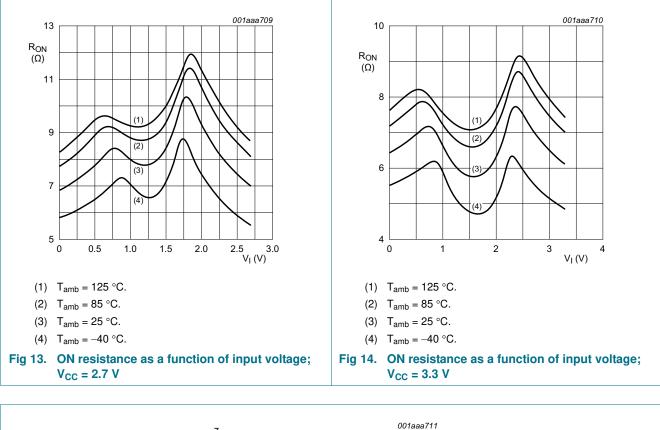
2-channel analog multiplexer/demultiplexer

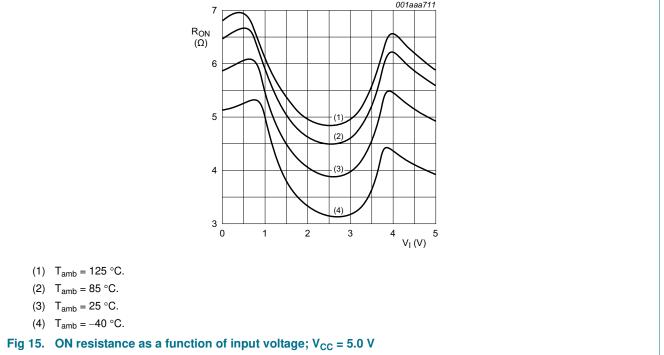


Nexperia

74LVC2G53

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 18.

Symbol	Parameter	Conditions			–40 °C to	o +125 ℃	Unit	
			Min	Typ <mark>[1]</mark>	Max	Min	Max	-
t _{pd}	propagation delay	Z to Yn or Yn to Z; see Figure 16 [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	-	-	0.8	-	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 17 [4]						
		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 17 [4]						
		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 17 [5]						
		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 17[5]						
		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

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

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

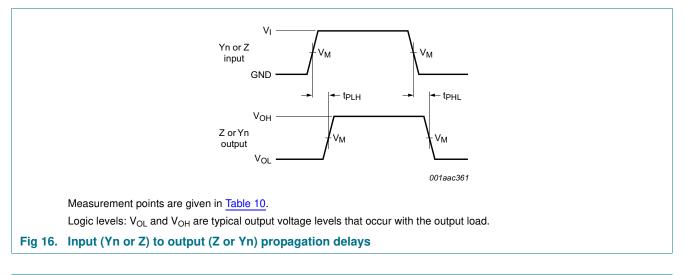
[3] Propagation delay is the calculated RC time constant of the typical ON resistance of the switch and the specified capacitance when driven by an ideal voltage source (zero output impedance).

 $\label{eq:tensor} [4] \quad t_{en} \text{ is the same as } t_{PZH} \text{ and } t_{PZL}.$

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

2-channel analog multiplexer/demultiplexer

11.1 Waveforms and test circuits



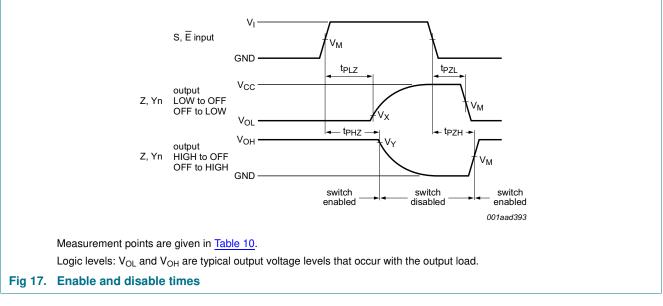


Table 10. Measurement points

Supply voltage	Input	Output				
V _{CC}	V _M	V _M	V _X	V _Y		
1.65 V to 2.7 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.15 V	V _{OH} – 0.15 V		
2.7 V to 5.5 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V		

Nexperia

74LVC2G53

2-channel analog multiplexer/demultiplexer

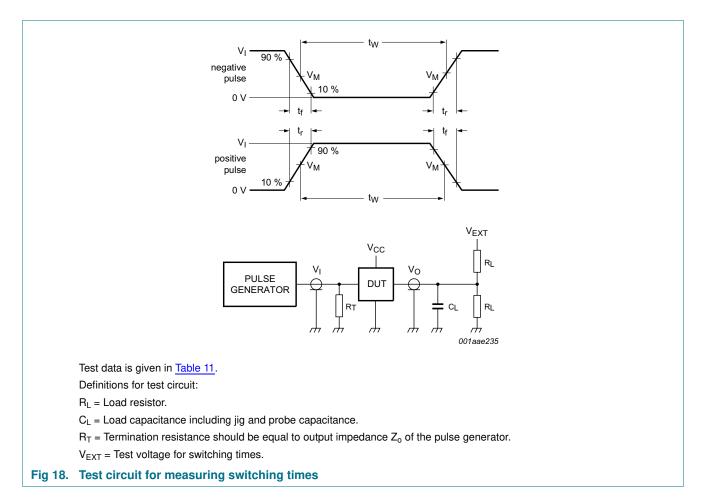


Table 11. Test data

Supply voltage	e Input Load V			V _{EXT}	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}	≤ 2.0 ns	30 pF	1 kΩ	open	GND	2V _{CC}	
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	open	GND	2V _{CC}	
2.7 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V _{CC}	
3 V to 3.6 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V _{CC}	
4.5 V to 5.5 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V _{CC}	

2-channel analog multiplexer/demultiplexer

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}; \text{ R}_L = 600 \Omega; \\ C_L = 50 \text{ pF}; \text{ V}_I = 0.5 \text{ V (p-p)}; \text{ see } \underline{\text{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	$R_L = 50 \Omega; C_L = 5 pF; see Figure 20$				
		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 Figure 21				
		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 MHz; R _L = 1 MΩ; see <u>Figure 22</u>				
		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

11.3 Test circuits

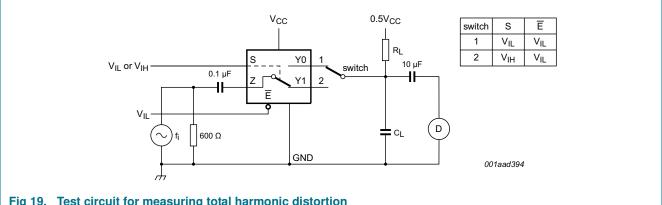
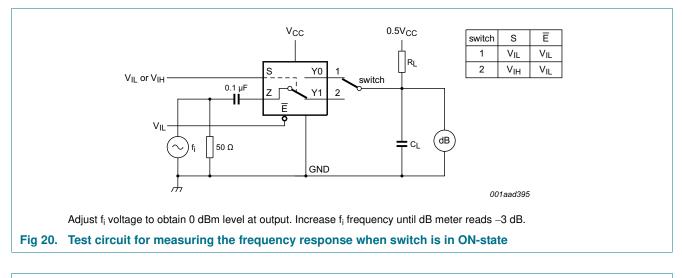


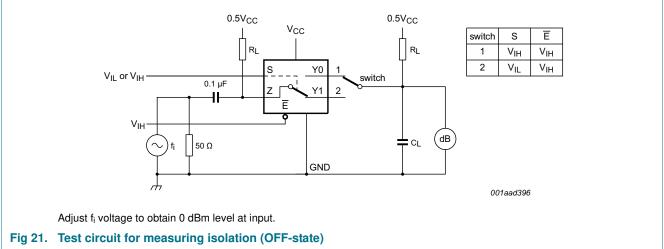
Fig 19. Test circuit for measuring total harmonic distortion

Nexperia

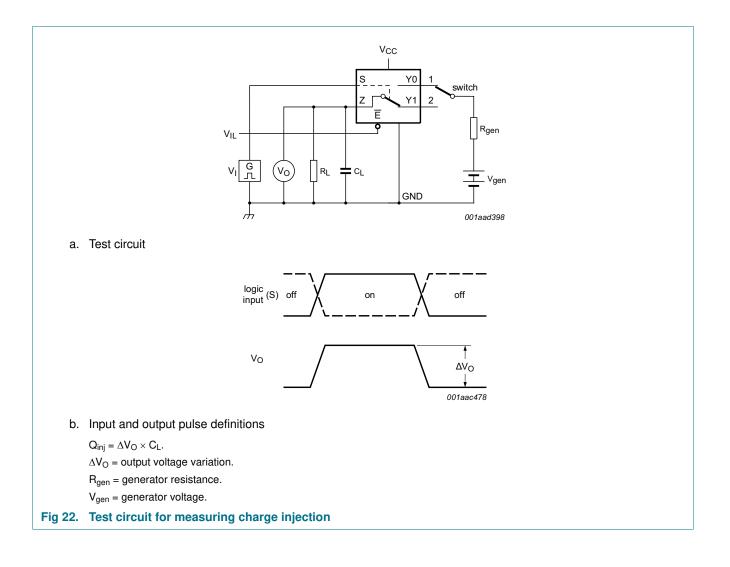
74LVC2G53

2-channel analog multiplexer/demultiplexer



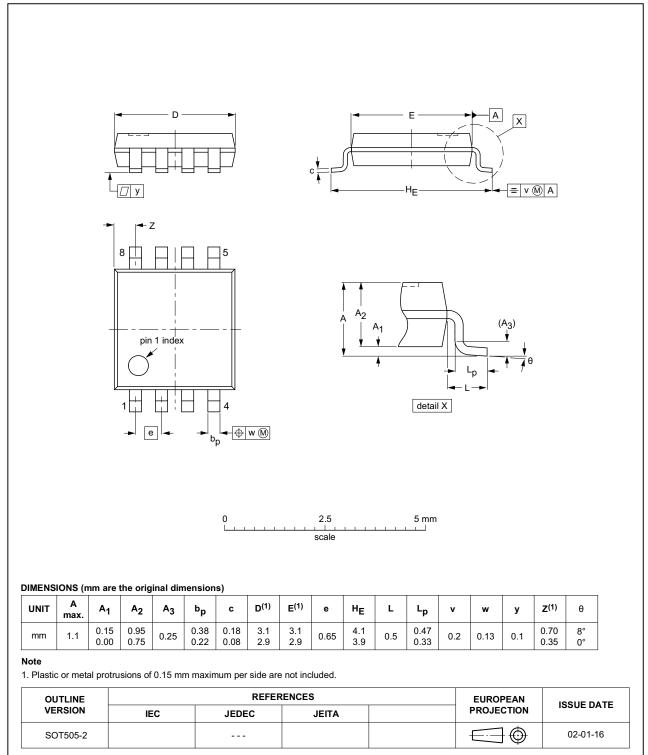


2-channel analog multiplexer/demultiplexer



2-channel analog multiplexer/demultiplexer

12. Package outline



TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

Fig 23. Package outline SOT505-2 (TSSOP8)

2-channel analog multiplexer/demultiplexer

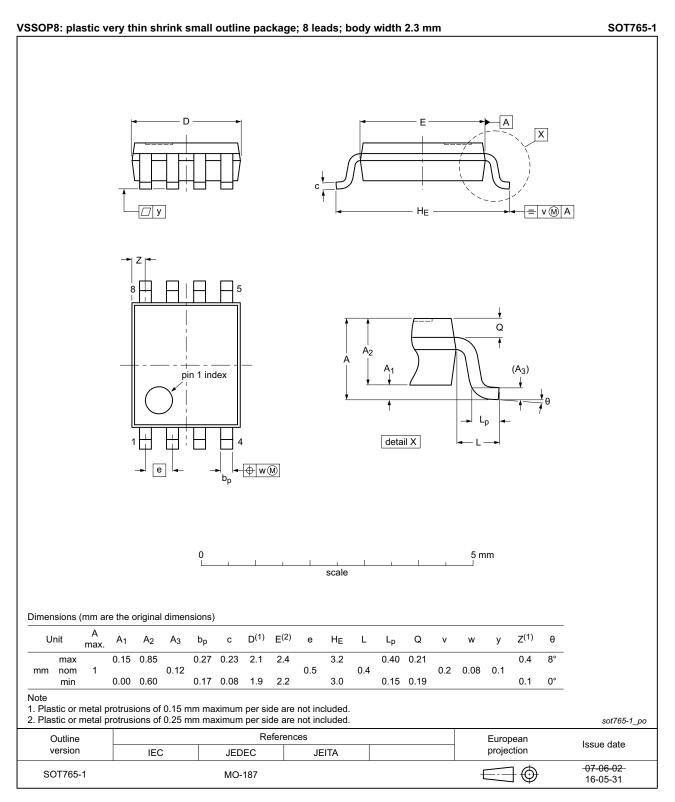


Fig 24. Package outline SOT765-1 (VSSOP8)

All information provided in this document is subject to legal disclaimers.

2-channel analog multiplexer/demultiplexer

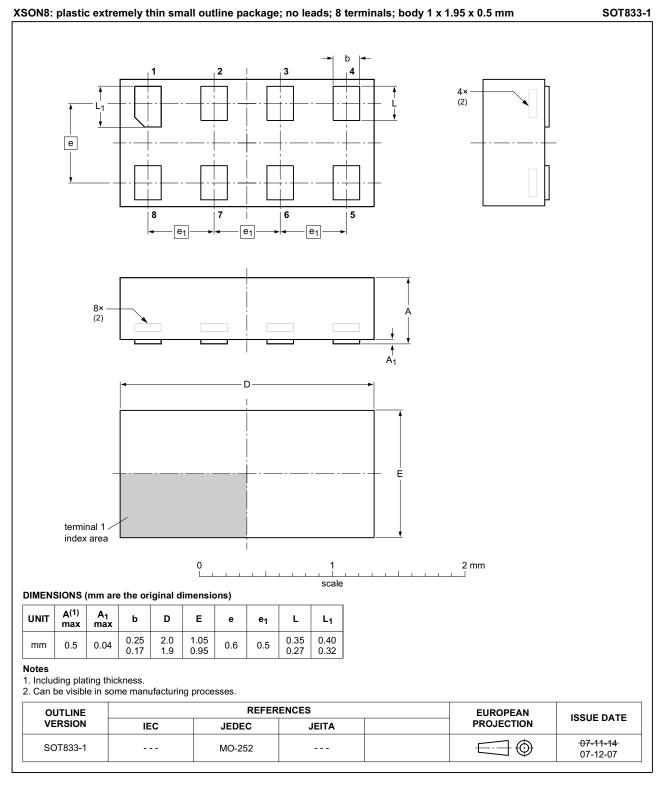
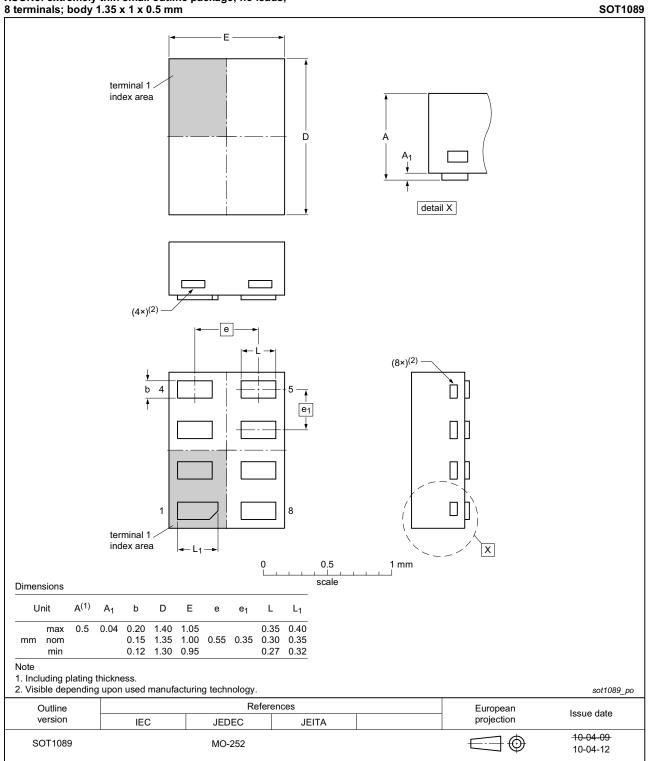


Fig 25. Package outline SOT833-1 (XSON8)

74LVC2G53 Product data sheet

2-channel analog multiplexer/demultiplexer

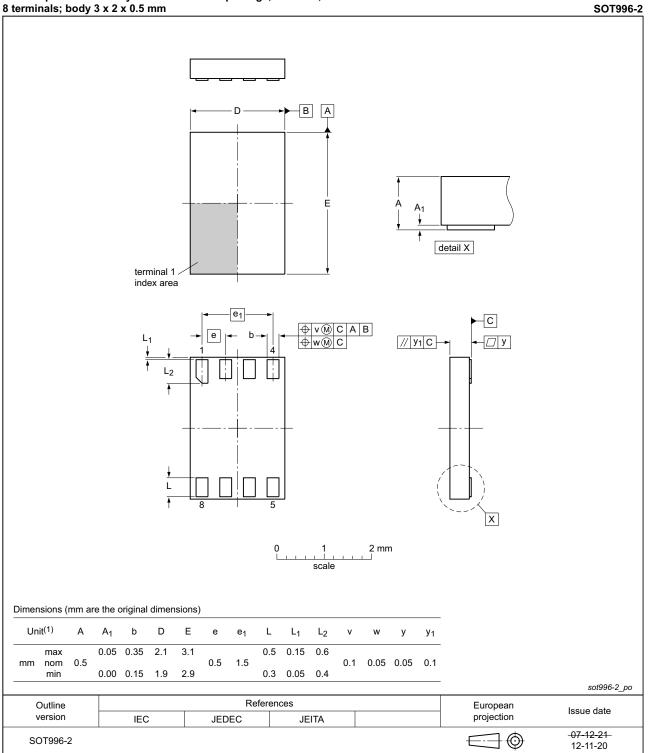


XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.35 x 1 x 0.5 mm

Fig 26. Package outline SOT1089 (XSON8)

All information provided in this document is subject to legal disclaimers

2-channel analog multiplexer/demultiplexer

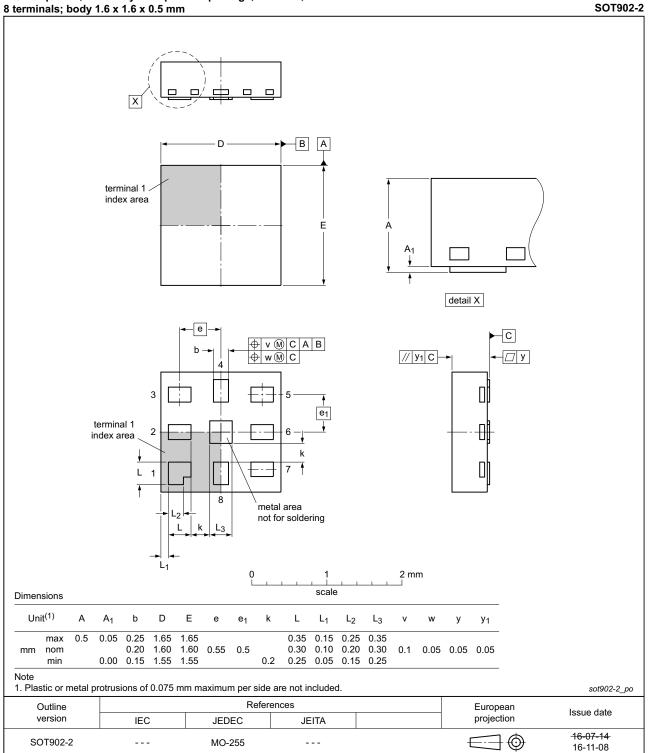


XSON8: plastic extremely thin small outline package; no leads; 8 terminals: body 3 x 2 x 0.5 mm

Fig 27. Package outline SOT996-2 (XSON8)

All information provided in this document is subject to legal disclaimers.

2-channel analog multiplexer/demultiplexer

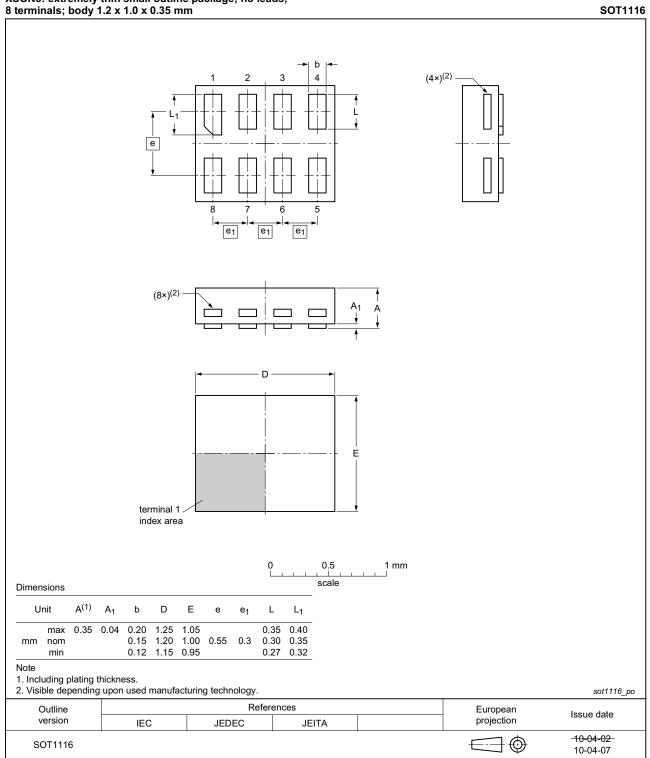


XQFN8: plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 x 1.6 x 0.5 mm

Fig 28. Package outline SOT902-2 (XQFN8)

All information provided in this document is subject to legal disclaimers.

2-channel analog multiplexer/demultiplexer

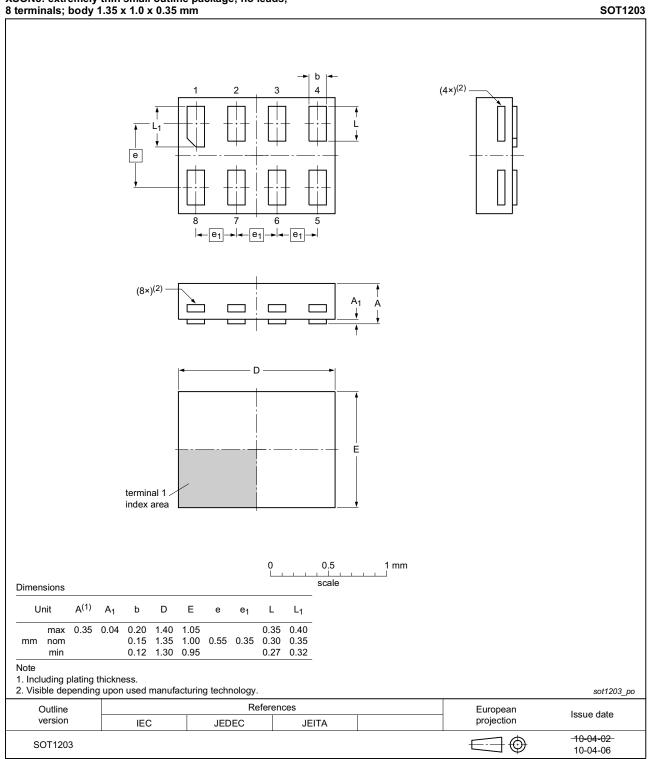


XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.2 x 1.0 x 0.35 mm

Fig 29. Package outline SOT1116 (XSON8)

74LVC2G53 **Product data sheet**

2-channel analog multiplexer/demultiplexer



XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.35 x 1.0 x 0.35 mm

Fig 30. Package outline SOT1203 (XSON8)

74LVC2G53 **Product data sheet**

2-channel analog multiplexer/demultiplexer

13. Abbreviations

Table 13. Abbreviations						
Acronym	Description					
CMOS	Complementary Metal-Oxide Semiconductor					
CDM	Charged Device Model					
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			
74LVC2G53 v.10	20161215	Product data sheet	-	74LVC2G53 v.9			
Modifications:	• <u>Table 7</u> : The maximum limits for leakage current and supply current have changed.						
74LVC2G53 v.9	20130405	Product data sheet	-	74LVC2G53 v.8			
Modifications:	For type number 74LVC2G53GD XSON8U has changed to XSON8.						
74LVC2G53 v.8	20120622	Product data sheet	-	74LVC2G53 v.7			
Modifications:	For type num	ber 74LVC2G53GM the SOT of	ode has changed to	SOT902-2.			
74LVC2G53 v.7	20111125	Product data sheet	-	74LVC2G53 v.6			
Modifications:	 Legal pages ι 	updated.					
74LVC2G53 v.6	20100927	Product data sheet	-	74LVC2G53 v.5			
74LVC2G53 v.5	20080618	Product data sheet	-	74LVC2G53 v.4			
74LVC2G53 v.4	20080228	Product data sheet	-	74LVC2G53 v.3			
74LVC2G53 v.3	20070828	Product data sheet	-	74LVC2G53 v.2			
74LVC2G53 v.2	20060331	Product data sheet	-	74LVC2G53 v.1			
74LVC2G53 v.1	20060110	Product data sheet	-	-			