2-channel analog multiplexer/demultiplexer

Rev. 14 — 22 April 2021

Product data sheet

### 1. General description

The 74LVC2G53 is a single-pole double-throw analog switch with a digital select input (S), two independent inputs/outputs (Y0 and Y1), a common input/output (Z) and a digital enable input ( $\overline{E}$ ). When  $\overline{E}$  is HIGH, the switch is turned off. 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 environments.

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.

### 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
- High noise immunity
- CMOS low-power consumption
- Overvoltage tolerant inputs to 5.5 V
- 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
- 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	
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 × 1.95 × 0.5 mm	SOT833-1	
74LVC2G53GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116	
74LVC2G53GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203	

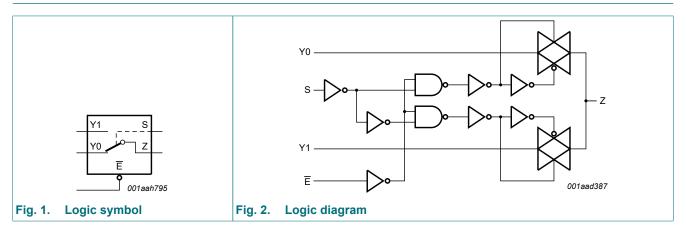
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### 4. Marking

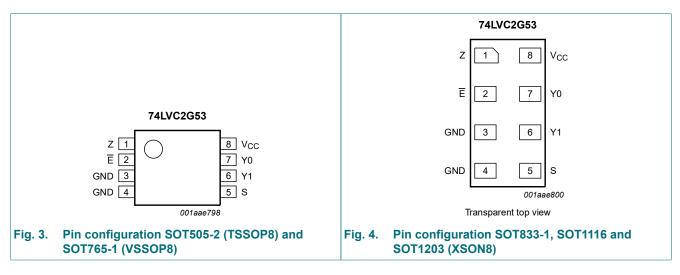
Type number	Marking code[1]
74LVC2G53DP	V53
74LVC2G53DC	V53
74LVC2G53GT	V53
74LVC2G53GN	V3
74LVC2G53GS	V3

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

## 5. Functional diagram



### 6. Pinning information



### 6.1. Pinning

### 6.2. Pin description

Table 3. Pin description		
Symbol	Pin	Description
Z	1	common output or input
Ē	2	enable input (active LOW)
GND	3	ground (0 V)
GND	4	ground (0 V)
S	5	select input
Y1	6	independent input or output
Y0	7	independent input or output
V <sub>CC</sub>	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
X	Н	Z

### 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
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	$V_{SW}$ > -0.5 V or $V_{SW}$ < $V_{CC}$ + 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	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ [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 SOT505-2 (TSSOP8) package: P<sub>tot</sub> derates linearly with 4.6 mW/K above 96 °C.

For SOT765-1 (VSSOP8) package: P<sub>tot</sub> derates linearly with 4.9 mW/K above 99 °C.

For SOT833-1 (XSON8) package: P<sub>tot</sub> derates linearly with 3.1 mW/K above 68 °C.

For SOT1116 (XSON8) package:  $P_{tot}$  derates linearly with 4.2 mW/K above 90 °C.

For SOT1203 (XSON8) package: P<sub>tot</sub> derates linearly with 3.6 mW/K above 81 °C.

74LVC2G53

# 9. Recommended operating conditions

Symbol	Parameter	Conditions		Min	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	[2]	-	20	ns/V
		V <sub>CC</sub> = 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.

# **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]	Мах	Min	Мах	-
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 1.65 V to 1.95 V		0.65V <sub>CC</sub>	-	-	0.65V <sub>CC</sub>	-	V
	voltage	V <sub>CC</sub> = 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 <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 input	V <sub>CC</sub> = 1.65 V to 1.95 V		-	-	0.35V <sub>CC</sub>	-	0.35V <sub>CC</sub>	V
	voltage	V <sub>CC</sub> = 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 <sub>CC</sub> = 4.5 V to 5.5 V		-	-	0.3V <sub>CC</sub>		0.3V <sub>CC</sub>	V
Iı	input leakage current	pin S and pin $\overline{E}$ ; V <sub>I</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 <sub>CC</sub> = 5.5 V; see <u>Fig. 5</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>Fig. 6</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 and pin E; $V_I = V_{CC} - 0.6 V;$ $V_{SW} = GND \text{ or } V_{CC};$ $V_{CC} = 5.5 V$	[2]	-	5	500	-	500	μA

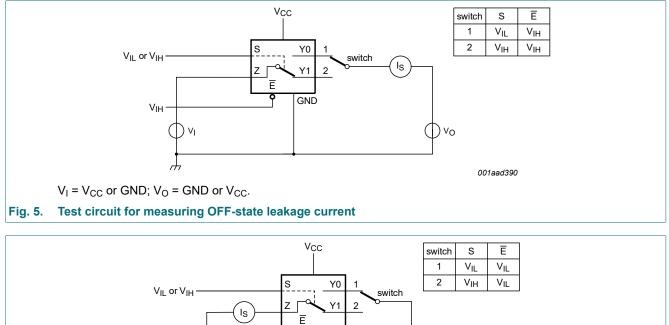
### 2-channel analog multiplexer/demultiplexer

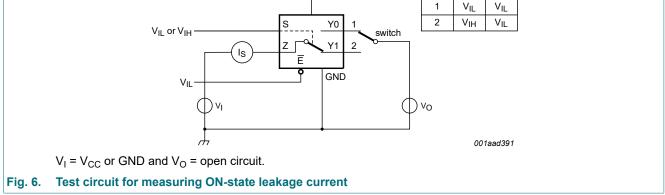
Symbol Parameter		Conditions	-40	°C to +85	5 °C	-40 °C to	Unit	
			Min	Typ [1]	Мах	Min	Мах	]
CI	input capacitance		-	2.5	-	-	-	pF
C <sub>S(OFF)</sub>	OFF-state capacitance		-	6.0	-	-	-	pF
C <sub>S(ON)</sub>	ON-state capacitance		-	18	-	-	-	pF

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

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

### 10.1. Test circuits





### 10.2. ON resistance

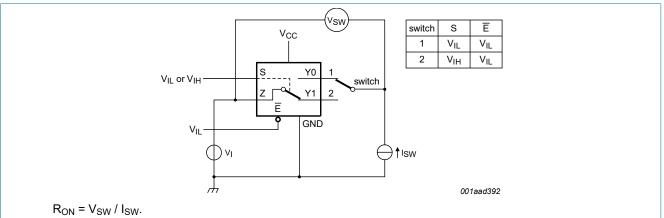
#### Table 8. ON resistance

At recommended operating conditions; voltages are referenced to GND (ground 0 V); for graphs see Fig. 8 to Fig. 13.

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
R <sub>ON(peak)</sub>	ON resistance	$V_{I} = GND$ to $V_{CC}$ ; see <u>Fig. 7</u>						
	(peak)	$I_{SW}$ = 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
R <sub>ON(rail)</sub>	ON resistance	V <sub>I</sub> = GND; see <u>Fig. 7</u>						
	(rail)	$I_{SW}$ = 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>Fig. 7</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 <sub>ON(flat)</sub>	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

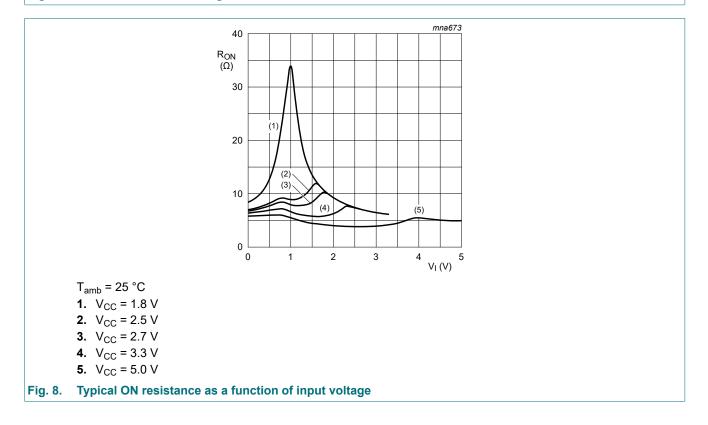
[1] Typical values are measured at  $T_{amb}$  = 25 °C and nominal  $V_{CC}.$ 

[2] Flatness is defined as the difference between the maximum and minimum value of ON resistance measured at identical V<sub>CC</sub> and temperature.

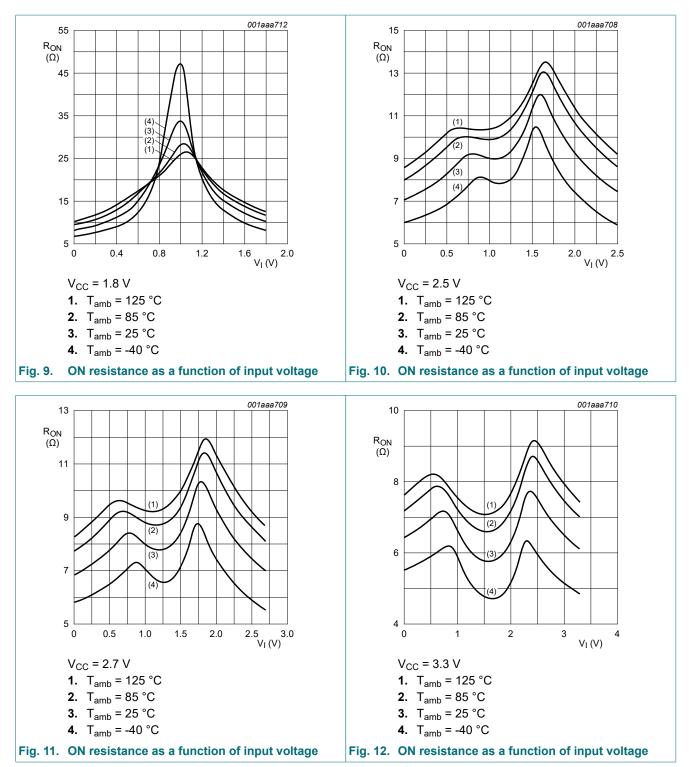


### 10.3. ON resistance test circuit and graphs

### Fig. 7. Test circuit for measuring ON resistance

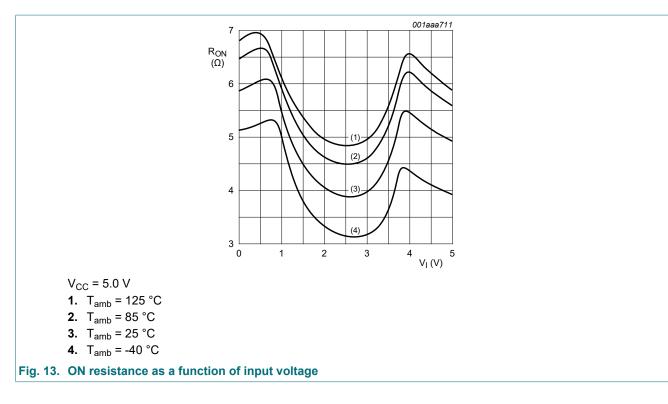


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# **11. Dynamic characteristics**

#### **Table 9. Dynamic characteristics**

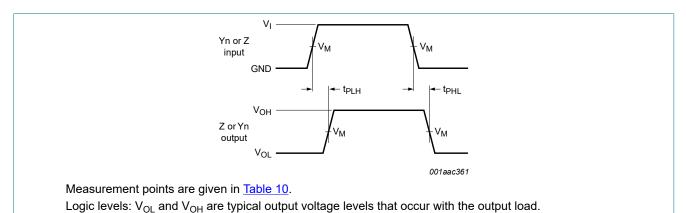
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 16.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	o +125 °C	Unit
				Min	Typ[1]	Мах	Min	Max	
t <sub>pd</sub>	propagation delay	Z to Yn or Yn to Z; see <u>Fig. 14</u>	[2] [3]						
		V <sub>CC</sub> = 1.65 V to 1.95 V		-	-	2	-	2.5	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		-	-	1.2	-	1.5	ns
		V <sub>CC</sub> = 2.7 V		-	-	1.0	-	1.25	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		-	-	0.8	-	1.0	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V		-	-	0.6	-	0.8	ns
t <sub>en</sub>	enable time	S to Z or Yn; see <u>Fig. 15</u>	[2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V		2.6	6.7	10.3	2.6	12.9	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.9	4.1	6.4	1.9	8.0	ns
		V <sub>CC</sub> = 2.7 V		1.9	4.0	5.5	1.8	7.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.8	3.4	5.0	1.8	6.3	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V		1.3	2.6	3.8	1.3	4.8	ns
		Ē to Z or Yn; see <u>Fig. 15</u>	[2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V		1.9	4.0	7.3	1.9	9.2	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.4	2.5	4.4	1.4	5.5	ns
		V <sub>CC</sub> = 2.7 V		1.1	2.6	3.9	1.1	4.9	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.2	2.2	3.8	1.2	4.8	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V		1.0	1.7	2.6	1.0	3.3	ns
t <sub>dis</sub>	disable time	S to Z or Yn; see <u>Fig. 15</u>	[2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V		2.1	6.8	10.0	2.1	12.5	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.4	3.7	6.1	1.4	7.7	ns
		V <sub>CC</sub> = 2.7 V		1.4	4.9	6.2	1.4	7.8	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.1	4.0	5.4	1.1	6.8	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V		1.0	2.9	3.8	1.0	4.8	ns
		Ē to Z or Yn; see <u>Fig. 15</u>	[2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V		2.3	5.6	8.6	2.3	11.0	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.2	3.2	4.8	1.2	6.0	ns
		V <sub>CC</sub> = 2.7 V		1.4	4.0	5.2	1.4	6.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		2.0	3.7	5.0	2.0	6.3	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V		1.3	2.9	3.8	1.3	4.8	ns

[1]

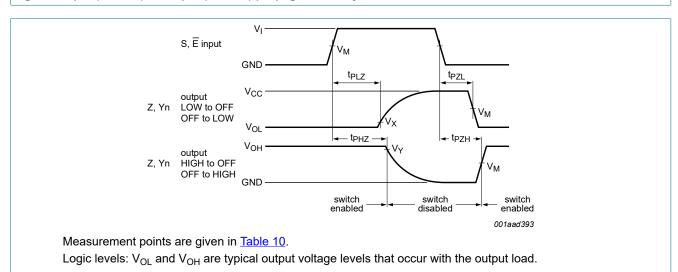
[2]

Typical values are measured at  $T_{amb}$  = 25 °C and nominal V<sub>CC</sub>.  $t_{pd}$  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 [3] driven by an ideal voltage source (zero output impedance).



### 11.1. Waveforms and test circuits

Fig. 14. Input (Yn or Z) to output (Z or Yn) propagation delays

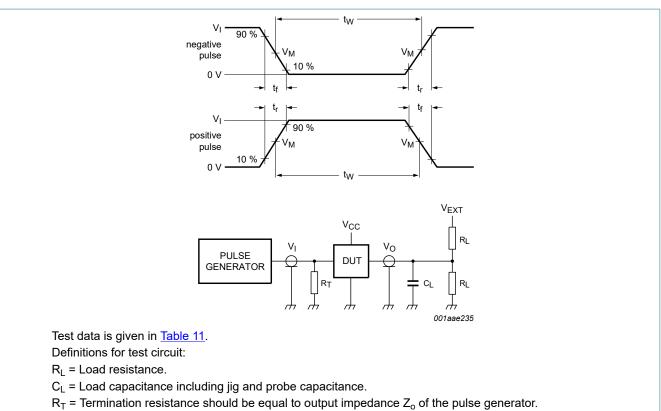


### Fig. 15. Enable and disable times

#### 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 2.7 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V			
2.7 V to 5.5 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V			

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V<sub>EXT</sub> = Test voltage for switching times.

### Fig. 16. Test circuit for measuring switching times

#### 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	30 pF	1 kΩ	open	GND	2V <sub>CC</sub>	
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	open	GND	2V <sub>CC</sub>	
2.7 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V <sub>CC</sub>	
3 V to 3.6 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V <sub>CC</sub>	
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V <sub>CC</sub>	

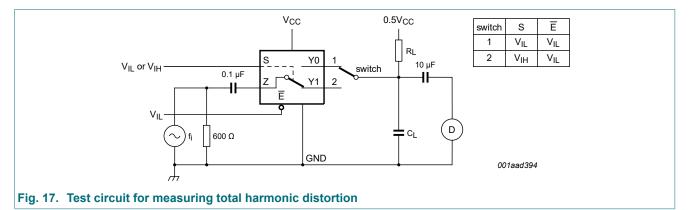
### **11.2.** Additional dynamic characteristics

### Table 12. Additional dynamic characteristics

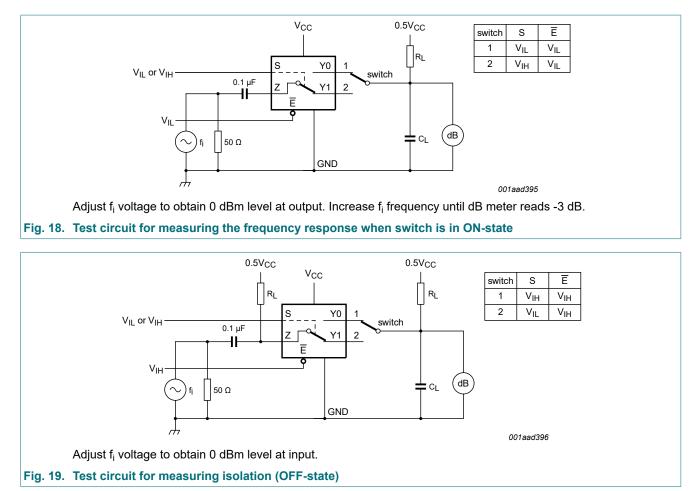
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); T<sub>amb</sub> = 25 °C.

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 Fig. 17				
		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 <sub>(-3dB)</sub>	-3 dB frequency response	$R_L = 50 \Omega; C_L = 5 pF; see Fig. 18$				
		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
α <sub>iso</sub>	isolation (OFF-state)	$R_L$ = 50 Ω; $C_L$ = 5 pF; $f_i$ = 10 MHz; see Fig. 19				
		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	$C_L = 0.1 \text{ nF}; V_{gen} = 0 \text{ V}; R_{gen} = 0 \Omega;$ f <sub>i</sub> = 1 MHz; R <sub>L</sub> = 1 MΩ; see <u>Fig. 20</u>				
		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 <sub>CC</sub> = 4.5 V	-	6.4	-	рС
		V <sub>CC</sub> = 5.5 V	-	7.5	-	рС

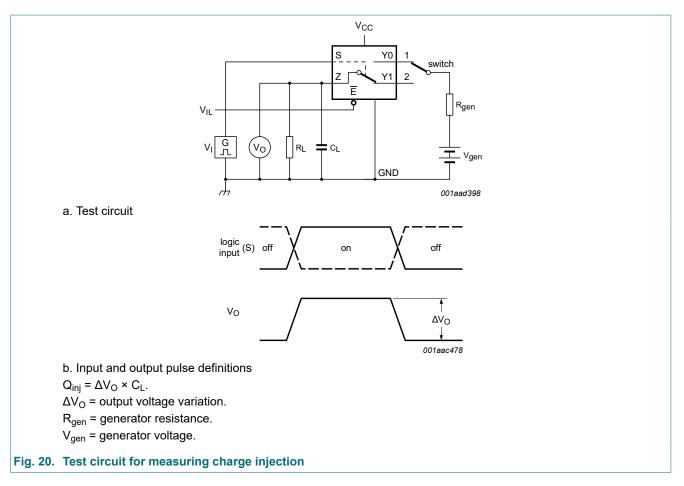
### 11.3. Test circuits



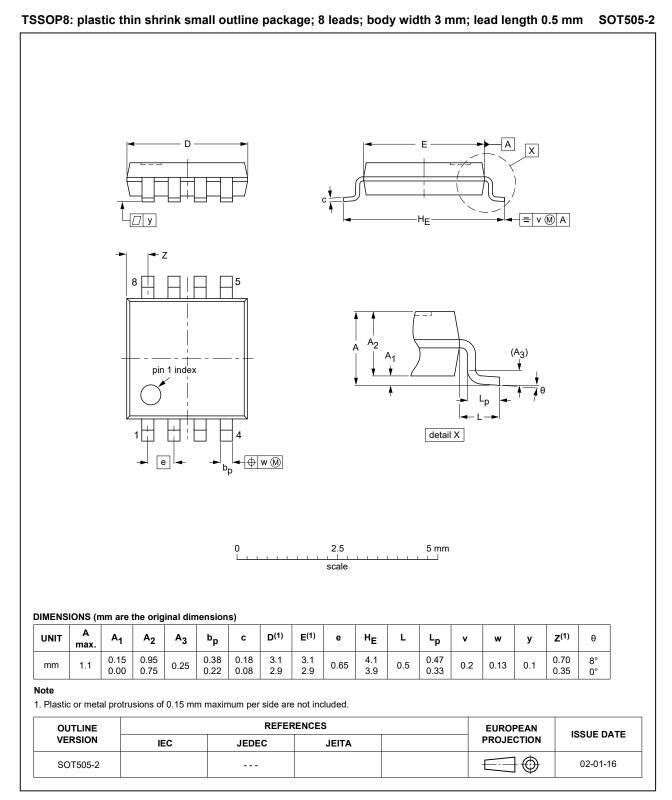
### 2-channel analog multiplexer/demultiplexer



### 2-channel analog multiplexer/demultiplexer



### 12. Package outline



#### Fig. 21. Package outline SOT505-2 (TSSOP8)

74LVC2G53

### 2-channel analog multiplexer/demultiplexer

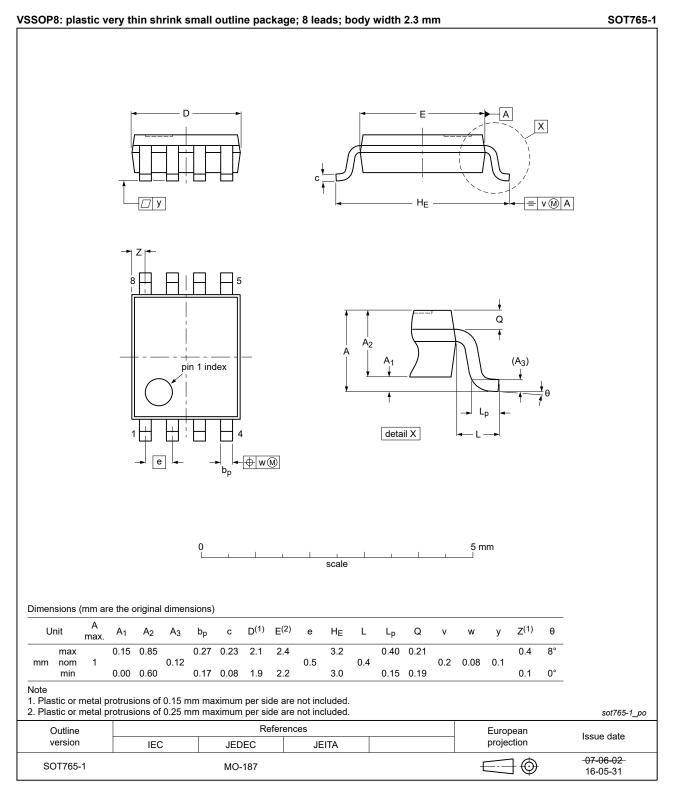


Fig. 22. Package outline SOT765-1 (VSSOP8)

### 2-channel analog multiplexer/demultiplexer

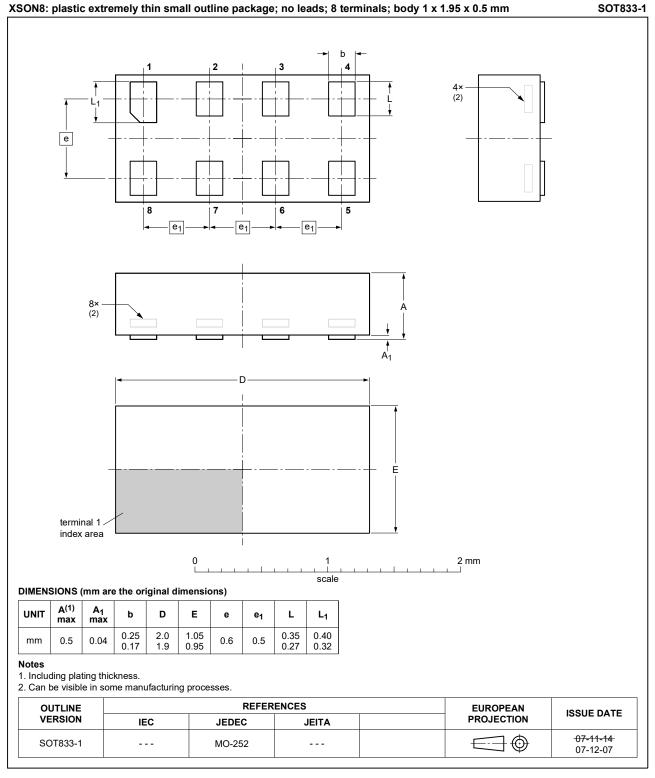
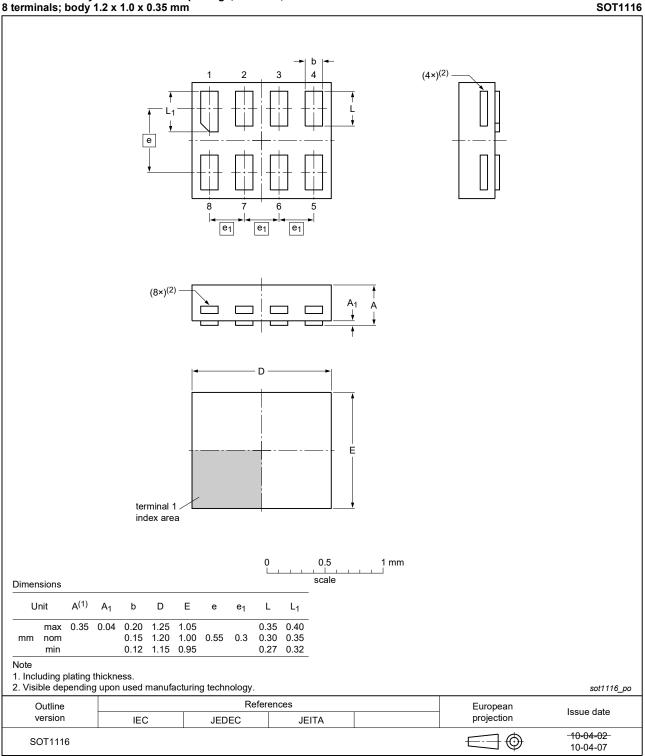


Fig. 23. Package outline SOT833-1 (XSON8)

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





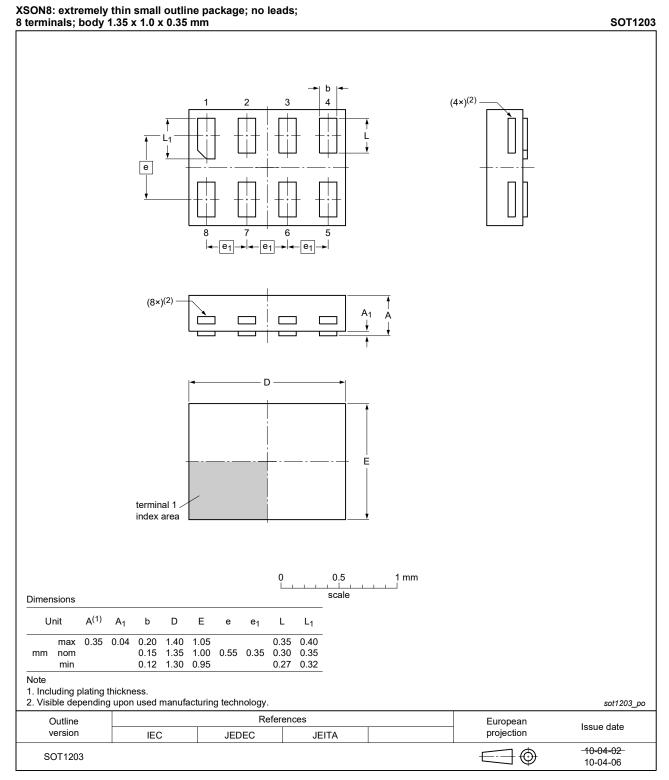


Fig. 25. Package outline SOT1203 (XSON8)

# 13. Abbreviations

Acronym	Description
CDM	Charged Device Model
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		
74LVC2G53 v.14	20210422	Product data sheet	-	74LVC2G53 v.13		
Modifications:		nd <u>Section 2</u> updated. er 74LVC2G53GF (SOT <sup>2</sup>	1089 / XSON8) remo	oved.		
74LVC2G53 v.13	20190731	Product data sheet	-	74LVC2G53 v.12		
Modifications:		· ·	53GM (SOT902-2/XQFN8) removed. s for P <sub>tot</sub> total power dissipation updated.			
74LVC2G53 v.12	20181116	Product data sheet	-	74LVC2G53 v.11		
Modifications:	Type numb	Type number 74LVC2G53GD (SOT996-2/XSON8) removed.				
74LVC2G53 v.11	20170821	Product data sheet	-	74LVC2G53 v.10		
Modifications:	guidelines o	<ul> <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>				
74LVC2G53 v.10	20161215	Product data sheet	-	74LVC2G53 v.9		
Modifications:	• <u>Table 7</u> : Th	e maximum limits for lea	kage current and su	pply current have changed.		
74LVC2G53 v.9	20130405	Product data sheet	-	74LVC2G53 v.8		
Modifications:	For type nu	For type number 74LVC2G53GD XSON8U has changed to XSON8.				
74LVC2G53 v.8	20120622	Product data sheet	-	74LVC2G53 v.7		
Modifications:	For type nu	For type number 74LVC2G53GM the SOT code has changed to SOT902-2.				
74LVC2G53 v.7	20111125	Product data sheet	-	74LVC2G53 v.6		
Modifications:	Legal page	Legal pages 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		
	20060331	Product data sheet	_	74LVC2G53 v.1		
74LVC2G53 v.2	20060331	T Touuci uata sheet		74LVC2G55 V.1		

74LVC2G53

# 15. Legal information

#### 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.
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- [2] The term 'short data sheet' is explained in section "Definitions".
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