74LV4053-Q100

Triple single-pole double-throw analog switch

Rev. 3 — 2 April 2024

Product data sheet

1. General description

The 74LV4053-Q100 is a triple single-pole double-throw (SPDT) analog switch, suitable for use as an analog or digital multiplexer/demultiplexer. It is a low-voltage Si-gate CMOS device and is pin and function compatible with the 74HC4053-Q100 and 74HCT4053-Q100. Each switch has a digital select input (Sn), two independent inputs/outputs (nY0 and nY1) and a common input/output (nZ). All three switches share an enable input ($\overline{\mathbb{E}}$). A HIGH on $\overline{\mathbb{E}}$ causes all switches into the high-impedance OFF-state, independent of Sn.

 V_{CC} and GND are the supply voltage connections for the digital control inputs (Sn and \overline{E}). The V_{CC} to GND range is 1 V to 6 V. The analog inputs/outputs (nY0, nY1 and nZ) can swing between V_{CC} as a positive limit and V_{EE} as a negative limit. V_{CC} - V_{EE} may not exceed 6 V. For operation as a digital multiplexer/demultiplexer, V_{EE} is connected to GND (typically ground). V_{EE} and V_{SS} are the supply voltage connections for the switches.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Optimized for low-voltage applications: 1.0 V to 3.6 V
- Accepts TTL input levels between V_{CC} = 2.7 V and V_{CC} = 3.6 V
- Low ON resistance:
 - 180 Ω (typical) at V_{CC} V_{EE} = 2.0 V
 - 100 Ω (typical) at V_{CC} V_{EE} = 3.0 V
 - 75 Ω (typical) at V_{CC} V_{EE} = 4.5 V
- Logic level translation:
 - To enable 3 V logic to communicate with ±3 V analog signals
- Typical 'break before make' built in
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- DHVQFN package with Side-Wettable Flanks enabling Automatic Optical Inspection (AOI) of solder joints

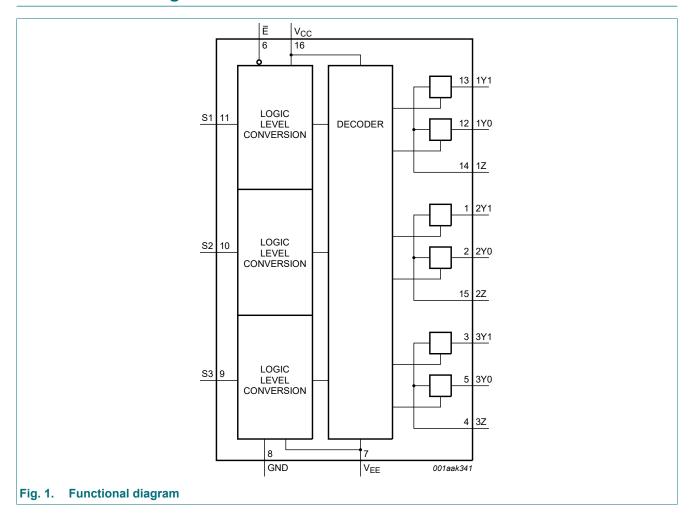


3. Ordering information

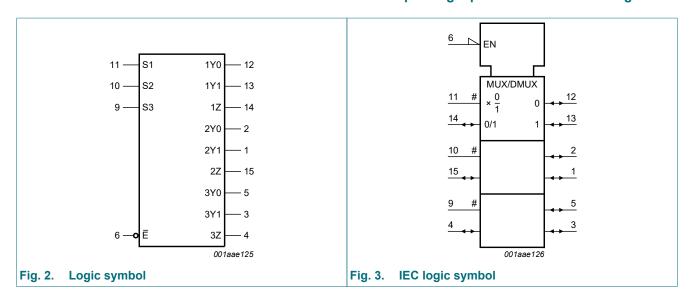
Table 1. Ordering information

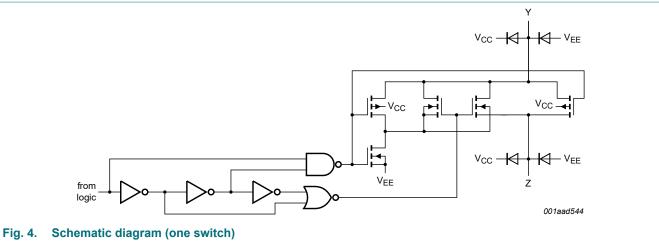
Type number	Package							
	Temperature range Name		Description	Version				
74LV4053D-Q100	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1				
74LV4053PW-Q100	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1				
74LV4053BQ-Q100	-40 °C to +125 °C	DHVQFN16	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 × 3.5 × 0.85 mm	SOT763-1				

4. Functional diagram



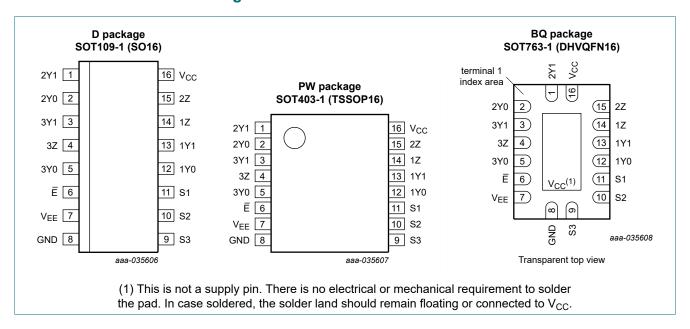
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5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
E	6	enable input (active LOW)
V _{EE}	7	supply voltage
GND	8	ground supply voltage
S1, S2, S3	11, 10, 9	select input
1Y0, 2Y0, 3Y0	12, 2, 5	independent input or output
1Y1, 2Y1, 3Y1	13, 1, 3	independent input or output
1Z, 2Z, 3Z	14, 15, 4	common output or input
Vcc	16	supply voltage

6. Functional description

Table 3. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = don't \ care.$

Inputs	Channel on	
E	Sn	
L	L	nY0 to nZ
L	Н	nY1 to nZ
Н	X	switches off

7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to V_{SS} = 0 V (ground).

Symbol	Parameter	Conditions		Min	Max	Unit
V _{CC}	supply voltage		[1]	-0.5	+7.0	V
I _{IK}	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	[2]	-	±20	mA
I _{SK}	switch clamping current	V_{SW} < -0.5 V or V_{SW} > V_{CC} + 0.5 V	[2]	-	±20	mA
I _{SW}	switch current	V _{SW} > -0.5 V or V _{SW} < V _{CC} + 0.5 V;source or sink current	[2]	-	±25	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C	[3]	-	500	mW

^[1] To avoid drawing V_{CC} current out of terminal nZ, when switch current flows into terminals nYn, the voltage drop across the bidirectional switch must not exceed 0.4 V. If the switch current flows into terminal nZ, no V_{CC} current will flow out of terminals nYn, and in this case there is no limit for the voltage drop across the switch, but the voltages at nYn and nZ may not exceed V_{CC} or V_{EE}.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage	see Fig. 5	1	3.3	6	V
VI	input voltage		0	-	V _{CC}	V
V _{SW}	switch voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature	in free air	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.0 V to 2.0 V	-	-	500	ns/V
		V _{CC} = 2.0 V to 2.7 V	-	-	200	ns/V
		V _{CC} = 2.7 V to 3.6 V	-	-	100	ns/V

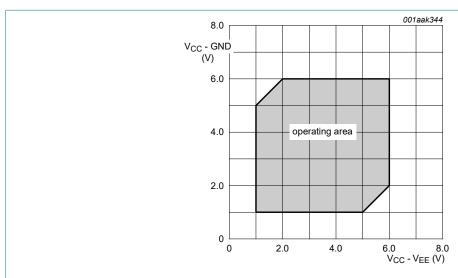


Fig. 5. Guaranteed operating area as a function of the supply voltages

^[2] The minimum input voltage rating may be exceeded if the input current rating is observed.

^[3] For SOT109-1 (SO16) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT403-1 (TSSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C. For SOT763-1 (DHVQFN16) package: P_{tot} derates linearly with 11.2 mW/K above 106 °C.

9. Static characteristics

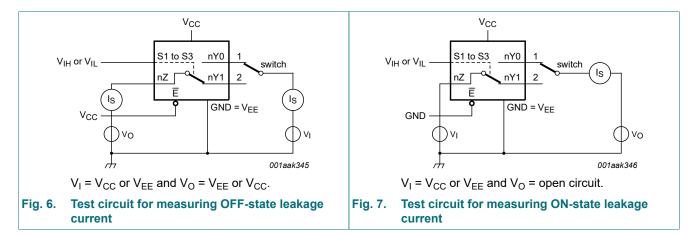
Table 6. Static characteristics

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH-level input voltage	V _{CC} = 1.2 V	0.9	-	-	0.9	-	V
		V _{CC} = 2.0 V	1.4	-	-	1.4	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V _{CC} = 4.5 V	3.15	-	-	3.15	-	V
		V _{CC} = 6.0 V	4.20	-	-	4.20	-	V
V_{IL}	LOW-level input voltage	V _{CC} = 1.2 V	-	-	0.3	-	0.3	V
		V _{CC} = 2.0 V	-	-	0.6	-	0.6	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
		V _{CC} = 4.5 V	-	-	1.35	-	1.35	V
		V _{CC} = 6.0 V	-	-	1.80	-	1.80	V
I _I	input leakage current	V _I = V _{CC} or GND						
		V _{CC} = 3.6 V	-	-	1.0	-	1.0	μΑ
		V _{CC} = 6.0 V	-	-	2.0	-	2.0	μΑ
I _{S(OFF)}	OFF-state leakage current	V _I = V _{IH} or V _{IL} ; see <u>Fig. 6</u>						
		V _{CC} = 3.6 V	-	-	1.0	-	1.0	μΑ
		V _{CC} = 6.0 V	0.6 - 0.6 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	μΑ				
I _{S(ON)}	ON-state leakage current	V _I = V _{IH} or V _{IL} ; see <u>Fig. 7</u>						
		V _{CC} = 3.6 V	-	-	1.0	-	1.0	μΑ
		V _{CC} = 6.0 V	-	-	2.0	-	2.0	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A						
		V _{CC} = 3.6 V	-	-	20	-	40	μΑ
		V _{CC} = 6.0 V	-	-	40	-	80	μΑ
ΔI _{CC}	additional supply current	per input; $V_I = V_{CC} - 0.6 \text{ V};$ $V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	500	-	850	μΑ
Cı	input capacitance		-	3.5	-	-	-	pF
C _{sw}	switch capacitance	independent pins nYn	-	5	-	-	-	pF
		common pins nZ	-	8	-	-	-	pF

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

9.1. Test circuits



9.2. ON resistance

Table 7. ON resistance

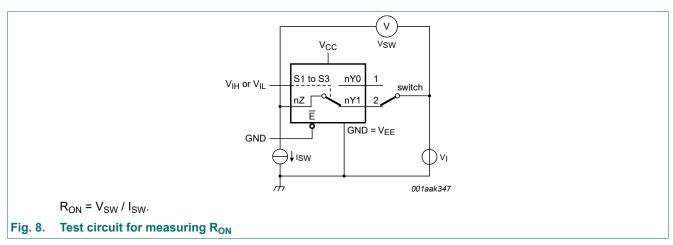
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for graphs see Fig. 8 and Fig. 9.

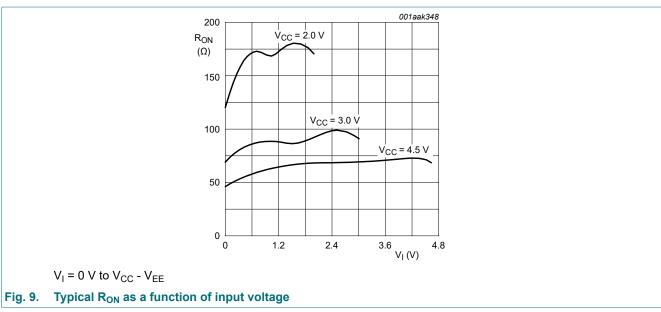
Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
R _{ON(peak)}	ON resistance (peak)	V _I = 0 V to V _{CC} - V _{EE}						
		V _{CC} = 1.2 V; I _{SW} = 100 μA [2]	-	-	-	-	-	Ω
		V _{CC} = 2.0 V; I _{SW} = 1000 μA	-	180	365	-	435	Ω
		V _{CC} = 2.7 V; I _{SW} = 1000 μA	-	115	225	-	270	Ω
		V _{CC} = 3.0 V to 3.6 V; I _{SW} = 1000 μA	-	100	200	-	245	Ω
		V _{CC} = 4.5 V; I _{SW} = 1000 μA	-	75	150	-	180	Ω
		V _{CC} = 6.0 V; I _{SW} = 1000 μA			165	Ω		
ΔR _{ON}	ON resistance mismatch between channels	V _I = 0 V to V _{CC} - V _{EE}						
		V _{CC} = 1.2 V; I _{SW} = 100 μA [2]	-	-	-	-	-	Ω
		V _{CC} = 2.0 V; I _{SW} = 1000 μA	-	5	-	-	-	Ω
		V _{CC} = 2.7 V; I _{SW} = 1000 μA	-	4	-	-	-	Ω
		V _{CC} = 3.0 V to 3.6 V; I _{SW} = 1000 μA	-	4	-	-	-	Ω
		V _{CC} = 4.5 V; I _{SW} = 1000 μA	-	3	-	-	-	Ω
		V _{CC} = 6.0 V; I _{SW} = 1000 μA	-	2	-	-	-	Ω
R _{ON(rail)}	ON resistance (rail)	V _I = GND						
		$V_{CC} = 1.2 \text{ V}; I_{SW} = 100 \mu\text{A}$ [2]	-	250	-	-	-	Ω
		V _{CC} = 2.0 V; I _{SW} = 1000 μA	-	120	280	-	325	Ω
		$V_{CC} = 2.7 \text{ V}; I_{SW} = 1000 \mu\text{A}$	-	75	170	-	195	Ω
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V};$ $I_{SW} = 1000 \mu\text{A}$	-	70	155	-	180	Ω
		V_{CC} = 4.5 V; I_{SW} = 1000 μ A	-	50	120	-	135	Ω
		$V_{CC} = 6.0 \text{ V}; I_{SW} = 1000 \mu\text{A}$	-	45	105	-	120	Ω

Symbol	Parameter	Conditions	-40 °C to +85 °C		5 °C	-40 °C to	Unit	
			Min	Typ[1]	Max	Min	Max	
R _{ON(rail)}	ON resistance (rail)	V _I = V _{CC} - V _{EE}						
		$V_{CC} = 1.2 \text{ V}; I_{SW} = 100 \mu\text{A}$ [2]	-	350	-	-	-	Ω
		V _{CC} = 2.0 V; I _{SW} = 1000 μA	-	170	340	-	400	Ω
		V _{CC} = 2.7 V; I _{SW} = 1000 μA	-	105	210	-	250	Ω
		V _{CC} = 3.0 V to 3.6 V; I _{SW} = 1000 μA	-	95	190	-	225	Ω
		$V_{CC} = 4.5 \text{ V}; I_{SW} = 1000 \mu\text{A}$	-	70	140	-	165	Ω
		V _{CC} = 6.0 V; I _{SW} = 1000 μA	-	65	125	-	150	Ω

- [1] Typical values are measured at T_{amb} = 25 °C.
- [2] When supply voltages (V_{CC} V_{EE}) near 1.2 V the analog switch ON resistance becomes extremely non-linear. When using a supply of 1.2 V, it is recommended to use these devices only for transmitting digital signals.

9.3. On resistance waveform and test circuit





10. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 12.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
				Min	Typ[1]	Max	Min	Max	1
t _{pd}	propagation	nYn, nZ to nZ, nYn; see Fig. 10	[2]						
	delay	V _{CC} = 1.2 V		-	25	-	-	-	ns
		V _{CC} = 2.0 V		-	9	17	-	20	ns
		V _{CC} = 2.7 V		-	6	13	-	15	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	5	10	-	12	ns
		V _{CC} = 4.5 V		-	4	9	-	10	ns
		V _{CC} = 6.0 V		-	3	7	-	8	ns
t _{en}	enable time	Ē to nYn, nZ; see <u>Fig. 11</u>	[2]						
		V _{CC} = 1.2 V		-	100	-	-	-	ns
		V _{CC} = 2.0 V		-	34	65	-	77	ns
		V _{CC} = 2.7 V		-	25	48	-	56	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	[3]	-	16	-	-	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	19	38	-	45	ns
		V _{CC} = 4.5 V		-	17	32	-	38	ns
		V _{CC} = 6.0 V		-	13	25	-	29	ns
		Sn to nYn, nZ; see Fig. 11	[2]						
		V _{CC} = 1.2 V		-	125	-	-	-	ns
		V _{CC} = 2.0 V		-	43	82	-	97	ns
		V _{CC} = 2.7 V		-	31	60	-	71	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	[3]	-	20	-	-	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	24	48	-	57	ns
		V _{CC} = 4.5 V		-	21	41	-	48	ns
		V _{CC} = 6.0 V		-	16	31	-	37	ns
t _{dis}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
		V _{CC} = 1.2 V		-	95	-	-	-	ns
		V _{CC} = 2.0 V		-	34	61	-	73	ns
		V _{CC} = 2.7 V		-	26	46	-	54	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	[3]	-	17	-	-	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	20	37	-	44	ns
		V _{CC} = 4.5 V		-	18	32	-	38	ns
		V _{CC} = 6.0 V		-	15	25	-	30	ns
		Sn to nYn, nZ; see Fig. 11	[2]						
		V _{CC} = 1.2 V		-	90	-	-	-	ns
		V _{CC} = 2.0 V		-	32	59	-	70	ns
		V _{CC} = 2.7 V		-	24	44	-	52	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	[3]	-	16	-	-	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	19	36	-	42	ns
		V _{CC} = 4.5 V		-	17	31	-	36	ns
		V _{CC} = 6.0 V		-	14	24	_	28	ns

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to	Unit	
			Min	Typ[1]	Max	Min	Max	
C _{PD}	power dissipation capacitance	$C_L = 50 \text{ pF}; f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [4]	-	36	-	-	-	pF

- [1] All typical values are measured at T_{amb} = 25 °C.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL} .

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

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

- [3] Typical values are measured at nominal supply voltage ($V_{CC} = 3.3 \text{ V}$).
- [4] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma((C_L + C_{SW}) \times V_{CC}^2 \times f_o)$ where:

 f_i = input frequency in MHz, f_o = output frequency in MHz

C_L = output load capacitance in pF

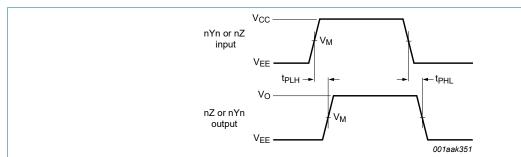
C_{SW} = maximum switch capacitance in pF;

V_{CC} = supply voltage in Volts

N = number of inputs switching

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

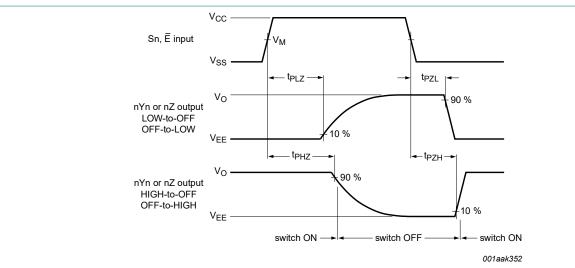
10.1. Waveforms and test circuit



Measurement points are given in <u>Table 9</u>.

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

Fig. 10. Propagation delay input (nYn, nZ) to output (nZ, nYn)



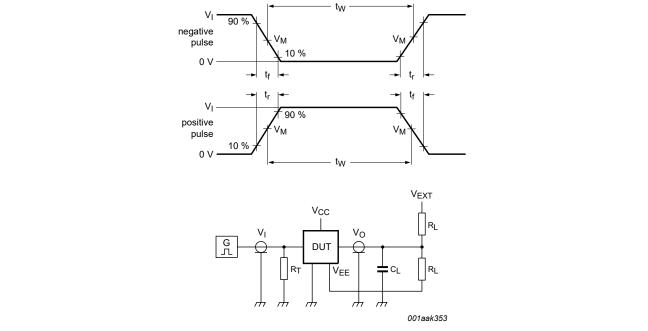
Measurement points are given in Table 9.

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

Fig. 11. Enable and disable times

Table 9. Measurement points

Supply voltage	Input	Output					
V _{CC}	V _M	V _M	V _X	V _Y			
< 2.7 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.1V _{CC}	V _{OH} - 0.1V _{CC}			
2.7 V to 3.6 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V			
> 3.6 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.1V _{CC}	V _{OH} - 0.1V _{CC}			



Test data is given in Table 10.

Definitions for test circuit:

 R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

 V_{EXT} = External voltage for measuring switching times.

Fig. 12. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Input		Load V _{EXT}				
V _{CC}	VI	t _r , t _f	CL	R_L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t_{PZL}, t_{PLZ}
< 2.7 V	V _{CC}	≤ 6 ns	50 pF	1 kΩ	open	V _{EE}	2V _{CC}
2.7 V to 3.6 V	2.7 V	≤ 6 ns	15 pF, 50 pF	1 kΩ	open	V_{EE}	2V _{CC}
> 3.6 V	V _{CC}	≤ 6 ns	50 pF	1 kΩ	open	V _{EE}	2V _{CC}

Product data sheet

10.2. Additional dynamic parameters

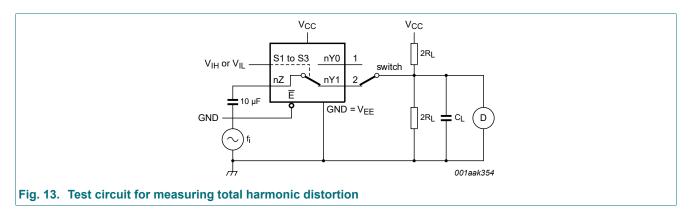
Table 11. Additional dynamic characteristics

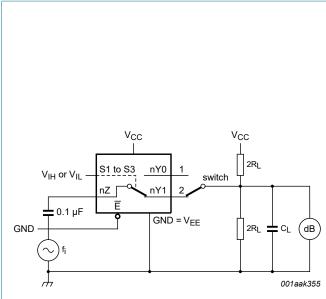
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); V_I = GND or V_{CC} (unless otherwise specified); t_r = t_f ≤ 6.0 ns; T_{amb} = 25 °C.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD	total harmonic distortion	f_i = 1 kHz; C_L = 50 pF; R_L = 10 kΩ; see <u>Fig. 13</u>				
		V _{CC} = 3.0 V; V _I = 2.75 V (p-p)	-	0.8	-	%
		V _{CC} = 6.0 V; V _I = 5.5 V (p-p)	-	0.4	-	%
		f_i = 10 kHz; C_L = 50 pF; R_L = 10 kΩ; see Fig. 13				
		V _{CC} = 3.0 V; V _I = 2.75 V (p-p)	-	2.4	-	%
		V _{CC} = 6.0 V; V _I = 5.5 V (p-p)	-	1.2	-	%
f _(-3dB)	-3 dB frequency response	$C_L = 50 \text{ pF}; R_L = 50 \Omega; \text{ see } Fig. 14$ [1]]			
		V _{CC} = 3.0 V	-	180	-	MHz
		V _{CC} = 6.0 V	-	200	-	MHz
α_{iso}	isolation (OFF-state)	$f_i = 1 \text{ MHz}; C_L = 50 \text{ pF}; R_L = 600 \Omega; \text{ see } \frac{\text{Fig. } 16}{\text{I}}$]			
		V _{CC} = 3.0 V	-	-50	-	dB
		V _{CC} = 6.0 V	-	-50	-	dB
V _{ct}	crosstalk voltage	between digital inputs and switch; f_i = 1 MHz; [2 C_L = 50 pF; R_L = 600 Ω ; see Fig. 18				
		V _{CC} = 3.0 V	-	0.11	-	V
		V _{CC} = 6.0 V	-	0.12	-	V
Xtalk	crosstalk	between switches; f_i = 1 MHz; C_L = 50 pF; R_L = 600 Ω ; see Fig. 19				
		V _{CC} = 3.0 V	-	-60	-	dB
		V _{CC} = 6.0 V	-	-60	-	dB

- [1] Adjust f_i voltage to obtain 0 dBm level at output for 1 MHz (0 dBm = 1 mW into 50 Ω).
- [2] Adjust f_i voltage to obtain 0 dBm level at output for 1 MHz (0 dBm = 1 mW into 600 Ω).

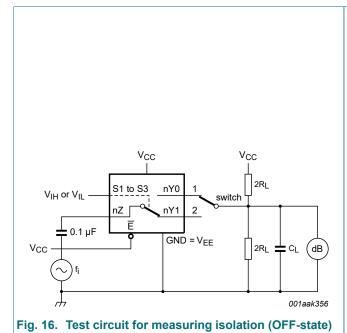
10.2.1. Test circuits





(dB) 0 10² 10³ 10⁴ 10 V_{CC} = 3.0 V; GND = 0 V; V_{EE} = -3.0 V; R_{L} = 50 Ω ; $R_{SOURCE} = 1 k\Omega$.

Fig. 15. Typical frequency response Fig. 14. Test circuit for measuring frequency response



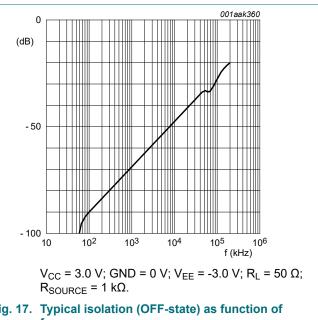
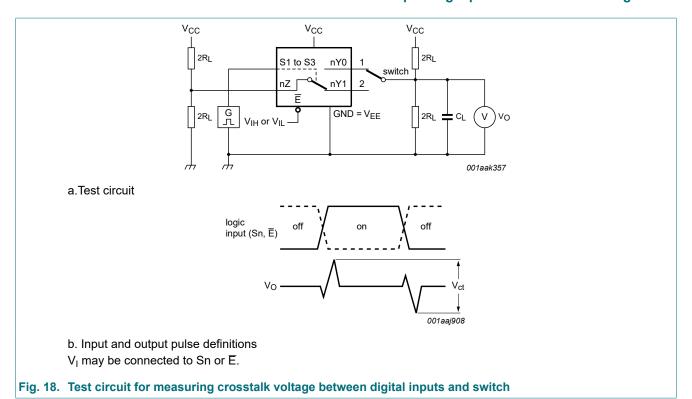
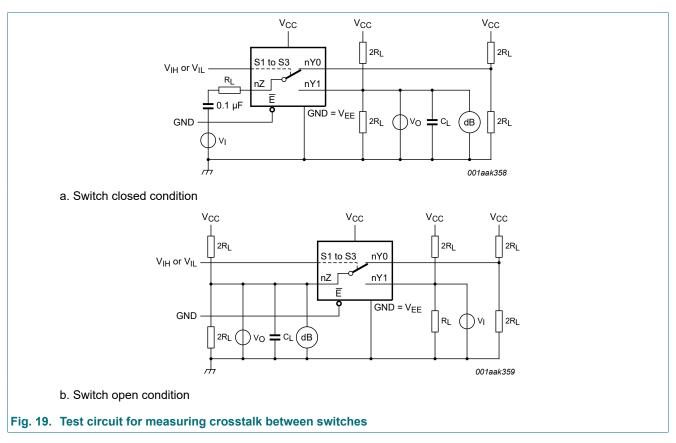


Fig. 17. Typical isolation (OFF-state) as function of frequency





11. Package outline

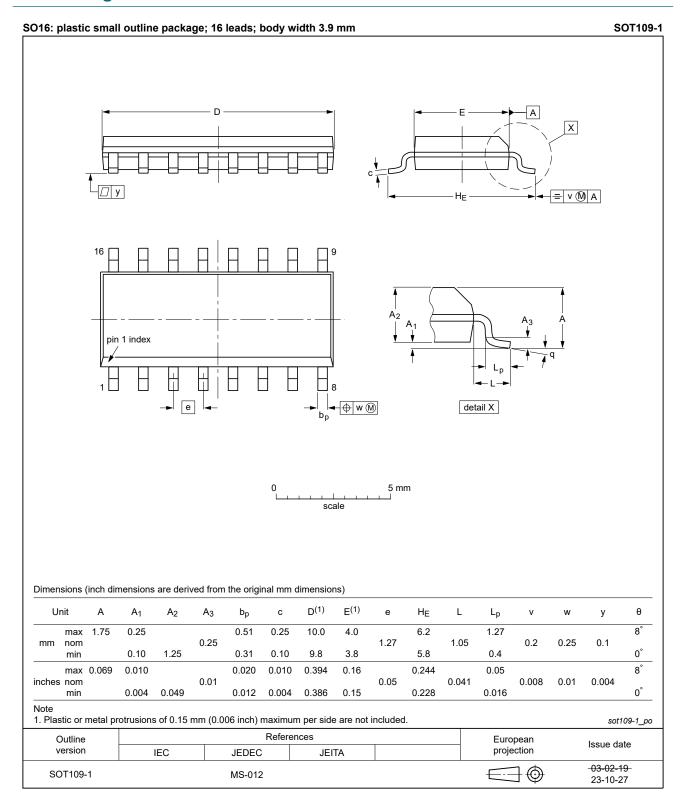


Fig. 20. Package outline SOT109-1 (SO16)

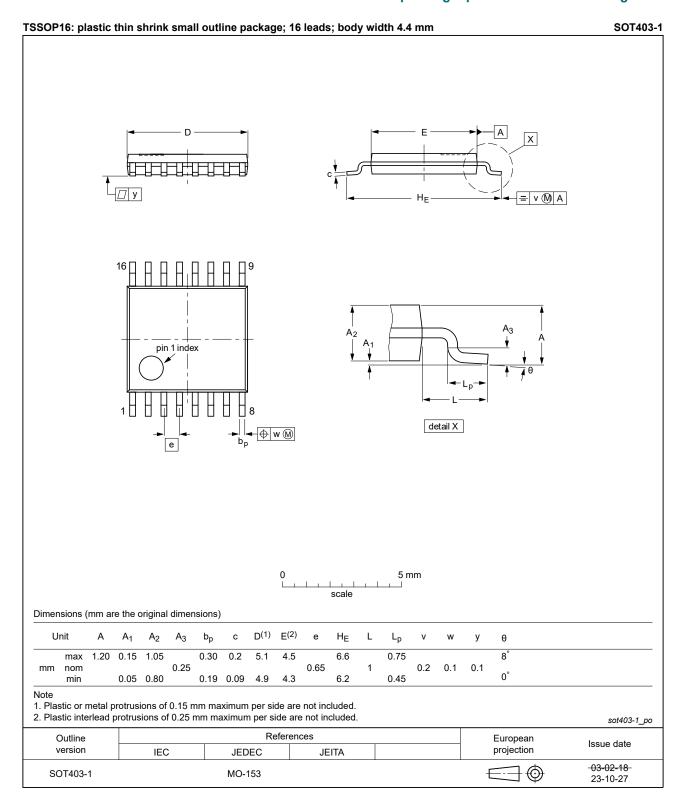


Fig. 21. Package outline SOT403-1 (TSSOP16)

DHVQFN16: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 x 3.5 x 0.85 mm SOT763-1

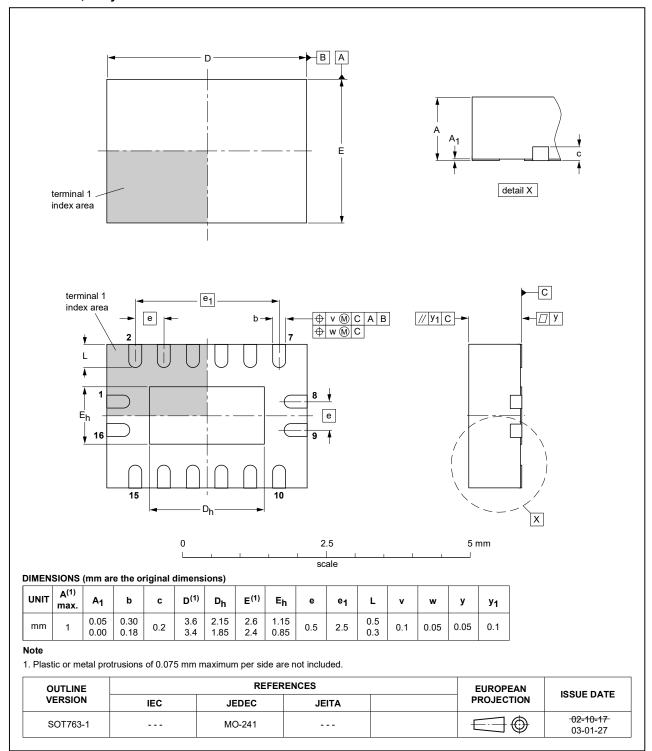


Fig. 22. Package outline SOT763-1 (DHVQFN16)

12. Abbreviations

Table 12. Abbreviations

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

13. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LV4053_Q100 v.3	20240402	Product data sheet	-	74LV4053_Q100 v.2		
Modifications:	 Section 2: ESD specification updated according to the latest JEDEC standard. Fig. 20 and Fig. 21:Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153. 					
74LV4053_Q100 v.2	20200923	Product data sheet	-	74LV4053_Q100 v.1		
Modifications:	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Section 2 updated. Table 4: Derating values for P_{tot} total power dissipation updated. 					
74LV4053_Q100 v.1	20140325	Product data sheet	-	-		

14. 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.
Product [short] data sheet	Production	This document contains the product specification.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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Triple single-pole double-throw analog switch

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