74LV4053 Triple single-pole double-throw analog switch Rev. 6 — 17 March 2016

Product data sheet

1. General description

The 74LV4053 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 and 74HCT4053. 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{E}). A HIGH on \overline{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.

2. Features and benefits

- 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 JESD22-A114-C exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from –40 °C to +85 °C and from –40 °C to +125 °C

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3. Ordering information

Table 1. Ordering information

Type number	Package								
	Temperature range	Name	Description	Version					
74LV4053D	–40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1					
74LV4053DB	–40 °C to +125 °C	SSOP16	plastic shrink small outline package; 16 leads; body width 5.3 mm	SOT338-1					
74LV4053PW	–40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1					
74LV4053BQ	–40 °C to +125 °C	DHVQFN16	plastic dual-in line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body $2.5 \times 3.5 \times 0.85$ 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) $\mathsf{V}_{\mathsf{E}\mathsf{E}}$ 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 16 supply voltage V_{CC}

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6. Functional description

Table 3.Function table [1]

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

[1] H = HIGH voltage level; L = LOW voltage level; X = don't care.

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	Мах	Unit
V _{CC}	supply voltage		[1]	-0.5	+7.0	V
I _{IK}	input clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 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	$T_{amb} = -40 \ ^{\circ}C \ to \ +125 \ ^{\circ}C$	[3]			
		DIP16 package		-	750	mW
		SO16 package		-	500	mW
		TSSOP16 package		-	500	mW
		DHVQFN16 package		-	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}.

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

[3] For DIP16 packages: above 70 °C the value of P_{tot} derates linearly with 12 mW/K.
 For SO16 packages: above 70 °C the value of P_{tot} derates linearly with 8 mW/K.
 For SSOP16 and TSSOP16 packages: above 60 °C the value of P_{tot} derates linearly with 5.5 mW/K.
 For DHVQFN16 packages: above 60 °C the value of P_{tot} derates linearly with 4.5 mW/K.

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Recommended operating conditions 8.

Table 5.	ble 5. Recommended operating conditions								
Symbol	Parameter	Conditions	Min	Тур	Max	Unit			
V _{CC}	supply voltage	see Figure 7	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			
$\Delta t / \Delta V$	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			
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	100	ns/V			

[1] The static characteristics are guaranteed from V_{CC} = 1.2 V to 6.0 V, but LV devices are guaranteed to function down to V_{CC} = 1.0 V (with

input levels GND or V_{CC}).



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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 <mark>[1]</mark>	Max	Min	Max	
VIH	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
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	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
l _l	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 Figure 8						
		V _{CC} = 3.6 V	-	-	1.0	-	1.0	μΑ
		V _{CC} = 6.0 V	-	-	2.0	-	2.0	μΑ
I _{S(ON)}	ON-state leakage current	$V_I = V_{IH}$ or V_{IL} ; see Figure 9						
		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
Δl _{CC}	additional supply current	per input; $V_1 = V_{CC} - 0.6 V$; $V_{CC} = 2.7 V$ to 3.6 V	-	-	500	-	850	μA
CI	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 $T_{amb} = 25 \ ^{\circ}C$.

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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 <u>Figure 10</u> and <u>Figure 11</u>.

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	–40 °C to +125 °C		Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
R _{ON(peak)}	ON resistance (peak)	$V_I = 0 V \text{ to } V_{CC} - V_{EE}$						
		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 μ A	-	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	-	70	140	-	165	Ω
ΔR_{ON}	ON resistance mismatch	$V_I = 0 V \text{ to } V_{CC} - V_{EE}$						
	between channels	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 μ A	-	4	-	-	-	Ω
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V};$ $I_{SW} = 1000 \mu\text{A}$	-	4	-	-	-	Ω
		V_{CC} = 4.5 V; I _{SW} = 1000 µA	-	3	-	-	-	Ω
		$V_{CC} = 6.0 \text{ V}; \text{ I}_{SW} = 1000 \mu\text{A}$	-	2	-	-	-	Ω

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Table 7. ON resistance ...continued

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for graphs see <u>Figure 10</u> and <u>Figure 11</u>.

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	–40 °C to	o +125 ℃	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
R _{ON(rail)}	ON resistance (rail)	V _I = GND						
		$V_{CC} = 1.2 \text{ V}; \text{ I}_{SW} = 100 \mu\text{A}$ [2]	-	250	-	-	-	Ω
		$V_{CC} = 2.0 \text{ V}; \text{ I}_{SW} = 1000 \mu\text{A}$	-	120	280	-	325	Ω
		$V_{CC} = 2.7 \text{ V}; \text{ I}_{SW} = 1000 \mu\text{A}$	-	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
		$V_{CC} = 4.5 \text{ V}; \text{ I}_{SW} = 1000 \mu\text{A}$	-	50	120	-	135	Ω
		$V_{CC} = 6.0 \text{ V}; \text{ I}_{SW} = 1000 \mu\text{A}$	-	45	105	-	120	Ω
R _{ON(rail)}	ON resistance (rail)	$V_I = V_{CC} - V_{EE}$						
		V _{CC} = 1.2 V; I _{SW} = 100 μA [2]	-	350	-	-	-	Ω
		$V_{CC} = 2.0 \text{ V}; \text{ I}_{SW} = 1000 \mu\text{A}$	-	170	340	-	400	Ω
		$V_{CC} = 2.7 \text{ V}; \text{ I}_{SW} = 1000 \mu\text{A}$	-	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 V; I _{SW} = 1000 µA	-	70	140	-	165	Ω
		$V_{CC} = 6.0 \text{ V}; \text{ I}_{SW} = 1000 \mu\text{A}$	-	65	125	-	150	Ω

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

[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.

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9.3 On resistance waveform and test circuit





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10. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 14.

Symbol	Parameter	Conditions	-40	°C to +85	S°C	_40 °C t	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	-
t _{pd}	propagation delay	nYn, nZ to nZ, nYn; see Figure 12 [2]						
		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	enable time	E to nYn, nZ; see Figure 13[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
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}; C_L = 15 \text{ pF}$ [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 Figure 13 [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
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}; C_L = 15 \text{ pF}$ [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

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Symbol	Parameter	Conditions		-40	°C to +85	°C	_40 °C t	o +125 °C	Unit
			N	lin	Typ[1]	Max	Min	Max	
t _{dis}	disable time	E to nYn, nZ; see Figure 13	1						
		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
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}; C_{L} = 15 \text{ pF}$	1	-	17	-	-	-	ns
		$V_{\rm CC} = 3.0 \text{ V to } 3.6 \text{ V}$	1	-	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 Figure 13	1						
		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
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}; C_{L} = 15 \text{ pF}$	1	-	16	-	-	-	ns
		$V_{\rm CC} = 3.0 \text{ V to } 3.6 \text{ V}$	1	-	19	36	-	42	ns
		V _{CC} = 4.5 V		-	17	31	-	36	ns
		V _{CC} = 6.0 V		-	14	24	-	28	ns
C _{PD}	power dissipation capacitance	$C_{L} = 50 \text{ pF}; f_{i} = 1 \text{ MHz};$ $V_{I} = \text{GND to } V_{CC}$	1	-	36	-	-	-	pF

Table 8. Dynamic characteristics ... continued

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 14.

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

- [3] Typical values are measured at nominal supply voltage ($V_{CC} = 3.3 \text{ V}$).
- $\begin{array}{ll} \mbox{[4]} & C_{PD} \mbox{ is used to determine the dynamic power dissipation (P_D in μW). } \\ & P_D = C_{PD} \times V_{CC}{}^2 \times f_i \times N + \Sigma((C_L + C_{SW}) \times V_{CC}{}^2 \times f_o) \mbox{ where:} \\ & f_i = \mbox{ input frequency in MHz, } f_o = \mbox{ output frequency in MHz} \\ & C_L = \mbox{ output load capacitance in } pF \\ & C_{SW} = \mbox{ maximum switch capacitance in } pF; \\ & V_{CC} = \mbox{ supply voltage in Volts} \\ & N = \mbox{ number of inputs switching} \\ & \Sigma(C_L \times V_{CC}{}^2 \times f_o) = \mbox{ sum of the outputs.} \end{array}$

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10.1 Waveforms





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}	$V_{OH} - 0.1 V_{CC}$			
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}			

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Table 10. Test data

Supply voltage	Input		Load		V _{EXT}			
V _{cc}	VI	t _r , t _f	CL	RL	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}	

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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); $t_r = t_f \le 6.0$ ns; $T_{amb} = 25$ °C.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
THD	total harmonic	$f_i = 1 \text{ kHz}; C_L = 50 \text{ pF}; R_L = 10 \text{ k}\Omega; \text{ see } \frac{\text{Figure } 19}{10 \text{ k}\Omega}$				
	distortion	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	-	%
		$f_i = 10 \text{ kHz}; C_L = 50 \text{ pF}; R_L = 10 \text{ k}\Omega; \text{ see } \frac{\text{Figure } 19}{10 \text{ kHz}}$				
		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	$C_L = 50 \text{ pF}; R_L = 50 \Omega; \text{ see } Figure 15$	l			
r	response	V _{CC} = 3.0 V	-	180	-	MHz
		V _{CC} = 6.0 V	-	200	-	MHz
α_{iso}	isolation (OFF-state)	$f_i = 1 \text{ MHz}; C_L = 50 \text{ pF}; R_L = 600 \Omega; \text{ see Figure 17}$	1			
		V _{CC} = 3.0 V	-	-50	-	dB
		V _{CC} = 6.0 V	-	-50	-	dB
V _{ct}	crosstalk voltage	between digital inputs and switch; $f_i = 1 \text{ MHz}$; $C_L = 50 \text{ pF}$; $R_L = 600 \Omega$; see Figure 20				
		V _{CC} = 3.0 V	-	0.11	-	V
		V _{CC} = 6.0 V	-	0.12	-	V
Xtalk	crosstalk	between switches; $f_i = 1 \text{ MHz}$; $C_L = 50 \text{ pF}$; $R_L = 600 \Omega$; see Figure 21				
		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).

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10.2.1 Test circuits



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11. Package outline



Fig 22. Package outline SOT109-1 (SO16)

Triple single-pole double-throw analog switch



Fig 23. Package outline SOT338-1 (SSOP16)

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Fig 24. Package outline SOT403-1 (TSSOP16)

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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 25. Package outline SOT763-1 (DHVQFN16)

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12. Abbreviations

Table 12. Abbreviations				
Acronym	Description			
CMOS	Complementary Metal-Oxide Semiconductor			
ESD	ElectroStatic Discharge			
НВМ	Human Body Model			
MM	Machine Model			
TTL	Transistor-Transistor Logic			

13. Revision history

Table 13.Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LV4053 v.6	20160317	Product data sheet	-	74LV4053 v.5		
Modifications:	Type number 74LV4053N (SOT38-4) removed.					
74LV4053 v.5	20140918	Product data sheet	-	74LV4053 v.4		
Modifications:	<u>Figure 6</u> : Figure note added for DHVQFN16 package.					
74LV4053 v.4	20090810	Product data sheet	-	74LV4053 v.3		
Modifications:	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors 					
	 Legal texts have been adapted to the new company name where appropriate. 					
	 Added type number 74LV4053BQ (DHVQFN16 package) 					
	 R_{ON} values changed in <u>Section 2</u>. 					
	 Package version SOT38-1 changed to SOT38-4 in <u>Section 3</u>, and Figure 23. 					
74LV4053 v.3	19980623	Product specification	-	74LV4053 v.2		
74LV4053 v.2	19970715	Product specification	-	-		

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14. Legal information

14.1 Data sheet status

Document status[1][2]	Product status ^[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

[1] Please consult the most recently issued document before initiating or completing a design.

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

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nexperia.com.

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Product data sheet

Triple single-pole double-throw analog switch

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Triple single-pole double-throw analog switch

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