Dual 4-channel analog multiplexer/demultiplexerRev. 10 — 25 March 2016Pro

Product data sheet

1. General description

The HEF4052B is a dual 4-channel analog multiplexer/demultiplexer with common channel select logic. Each multiplexer/demultiplexer has four independent inputs/outputs (nY0 to nY3) and a common input/output (nZ). The common channel select logic includes two select inputs (S1 and S2) and an active LOW enable input (\overline{E}). Both multiplexers/demultiplexers contain four bidirectional analog switches, each with one side connected to an independent input/output (nY0 to nY3) and the other side connected to a common input/output (nZ). With \overline{E} LOW, one of the four switches is selected (low-impedance ON-state) by S1 and S2. With \overline{E} HIGH, all switches are in the high-impedance OFF-state, independent of S1 and S2. If break before make is needed, then it is necessary to use the enable input.

 V_{DD} and V_{SS} are the supply voltage connections for the digital control inputs (S1 and S2, and \overline{E}). The V_{DD} to V_{SS} range is 3 V to 15 V. The analog inputs/outputs (nY0 to nY3, and nZ) can swing between V_{DD} as a positive limit and V_{EE} as a negative limit. $V_{DD}-V_{EE}$ may not exceed 15 V. Unused inputs must be connected to V_{DD} , V_{SS} , or another input. For operation as a digital multiplexer/demultiplexer, V_{EE} is connected to V_{SS} (typically ground). V_{EE} and V_{SS} are the supply voltage connections for the switches.

2. Features and benefits

- Fully static operation
- 5 V, 10 V, and 15 V parametric ratings
- Standardized symmetrical output characteristics
- Specified from –40 °C to +85 °C and –40 °C to +125 °C
- Complies with JEDEC standard JESD 13-B

3. Applications

- Analog multiplexing and demultiplexing
- Digital multiplexing and demultiplexing
- Signal gating

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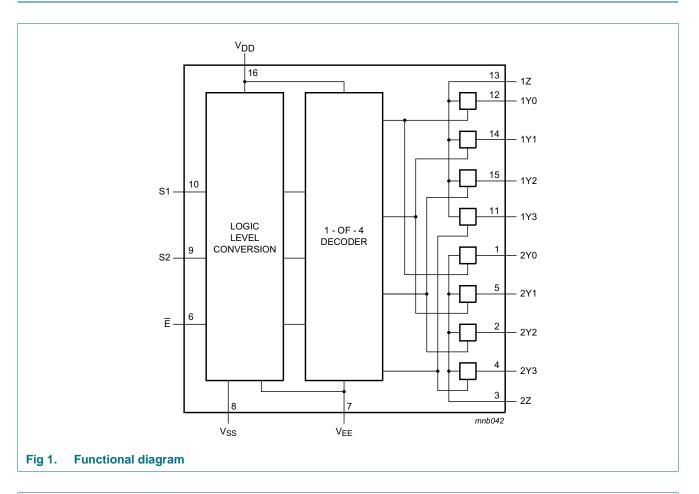
4. Ordering information

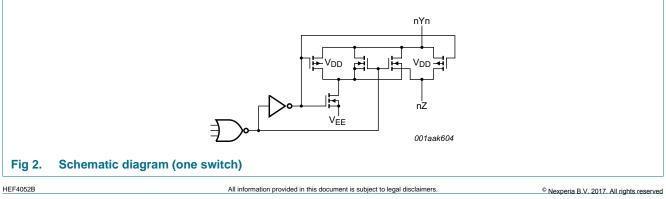
Table 1. Ordering information

All types operate from −40 °C to +125 °C.

Type number	Package					
	Name	Description	Version			
HEF4052BT	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1			
HEF4052BTT	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1			

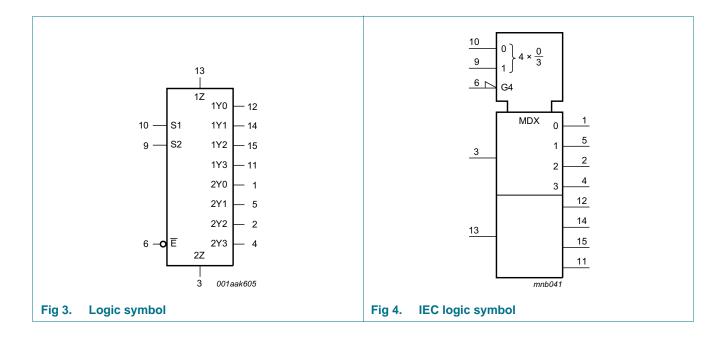
5. Functional diagram





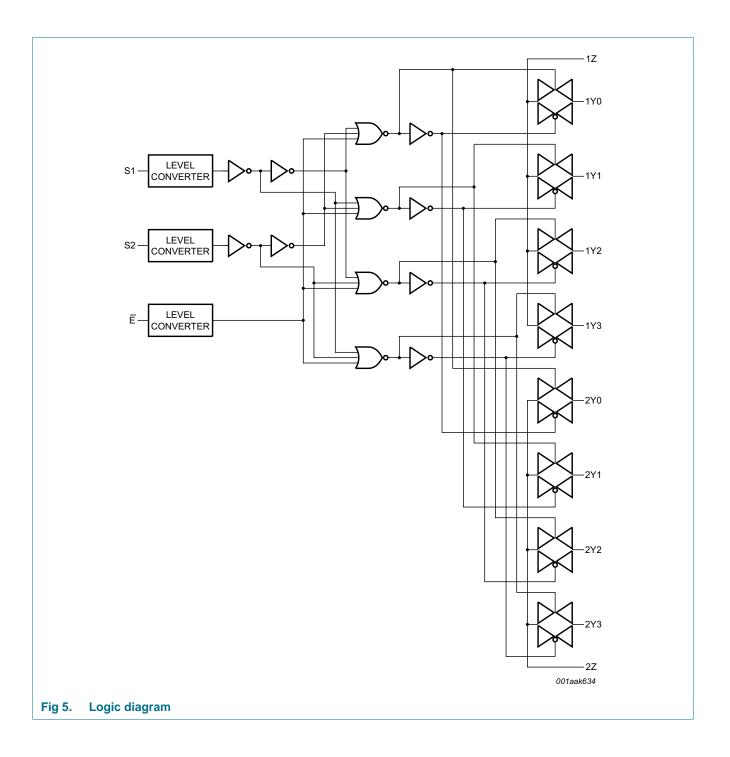
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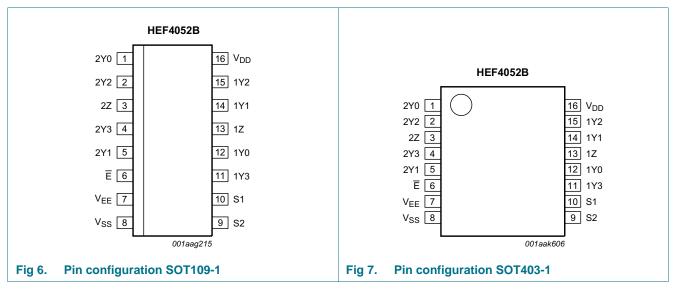
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6. Pinning information

6.1 Pinning



6.2 Pin description

Table 2.Pin description

Symbol	Pin	Description
Ē	6	enable input (active LOW)
VEE	7	supply voltage
V _{SS}	8	ground supply voltage
S1, S2	10, 9	select input
1Y0, 1Y1, 1Y2, 1Y3, 2Y0, 2Y1, 2Y2, 2Y3	12, 14, 15, 11, 1, 5, 2, 4	independent input or output
1Z, 2Z	13, 3	common output or input
V _{DD}	16	supply voltage

7. Functional description

7.1 Function table

Table 3. Function table ^{[1}

Input			Channel on
Ē	S2	S1	
L	L	L	nY0 to nZ
L	L	Н	nY1 to nZ
L	Н	L	nY2 to nZ
L	Н	Н	nY3 to nZ
Н	Х	Х	switches off

[1] H = HIGH voltage level;

L = LOW voltage level;

X = don't care.

8. 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).

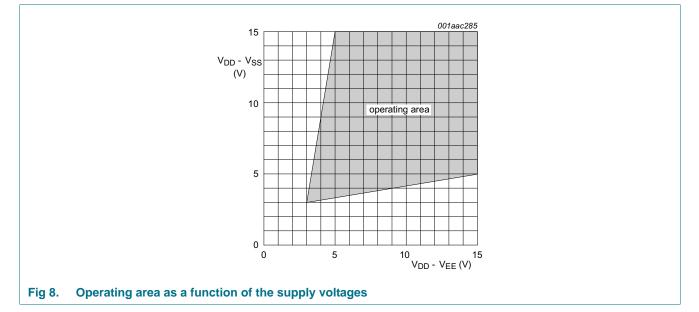
Symbol	Parameter	Conditions		Min	Max	Unit
V _{DD}	supply voltage			-0.5	+18	V
V _{EE}	supply voltage	referenced to V _{DD}	<u>[1]</u>	-18	+0.5	V
I _{IK}	input clamping current	pins Sn and \overline{E} ; V _I < -0.5 V or V _I > V _{DD} + 0.5 V		-	±10	mA
VI	input voltage			-0.5	V _{DD} + 0.5	V
I _{I/O}	input/output current			-	±10	mA
I _{DD}	supply current			-	50	mA
T _{stg}	storage temperature			-65	+150	°C
T _{amb}	ambient temperature			-40	+125	°C
P _{tot}	total power dissipation	$T_{amb} = -40 \ ^{\circ}C \text{ to } +125 \ ^{\circ}C$				
		SO16 package	[2]	-	500	mW
		TSSOP16 package	[2]	-	500	mW
Р	power dissipation	per output		-	100	mW

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

For SO16 package: P_{tot} derates linearly with 8 mW/K above 70 °C.
 For SSOP16 package: P_{tot} derates linearly with 5.5 mW/K above 60 °C.

9. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{DD}	supply voltage	see Figure 8	3	-	15	V
VI	input voltage		0	-	V _{DD}	V
T _{amb}	ambient temperature	in free air	-40	-	+125	°C
Δt/ΔV	input transition rise and fall	$V_{DD} = 5 V$	-	-	3.75	μs/V
	rate	V _{DD} = 10 V	-	-	0.5	μs/V
		V _{DD} = 15 V	-	-	0.08	μs/V



10. Static characteristics

Table 6. Static characteristics

 $V_{SS} = V_{EE} = 0$ V; $V_I = V_{SS}$ or V_{DD} unless otherwise specified.

Symbol	Parameter	Conditions	V _{DD}	T _{amb} =	–40 °C	T _{amb} =	25 °C	T _{amb} =	85 °C	T _{amb} =	125 °C	Unit
				Min	Max	Min	Мах	Min	Max	Min	Max	
V _{IH}	HIGH-level	I _O < 1 μA	5 V	3.5	-	3.5	-	3.5	-	3.5	-	V
	input voltage		10 V	7.0	-	7.0	-	7.0	-	7.0	-	V
			15 V	11.0	-	11.0	-	11.0	-	11.0	-	V
V _{IL}	LOW-level	I _O < 1 μA	5 V	-	1.5	-	1.5	-	1.5	-	1.5	V
	input voltage		10 V	-	3.0	-	3.0	-	3.0	-	3.0	V
			15 V	-	4.0	-	4.0	-	4.0	-	4.0	V
lı	input leakage current		15 V	-	±0.1	-	±0.1	-	±1.0	-	±1.0	μΑ

Table 5. Recommended operating conditions

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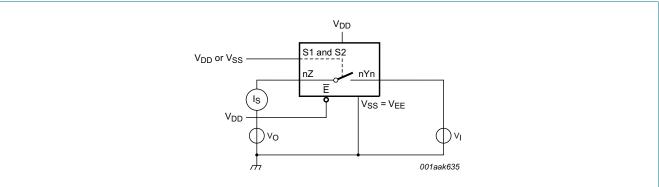
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Table 6. Static characteristics ...continued

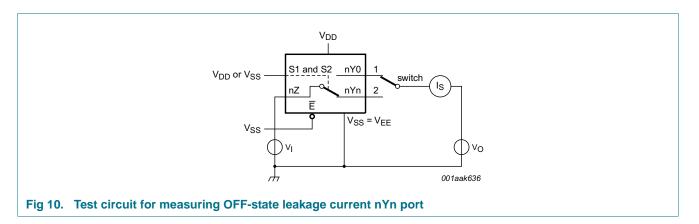
 $V_{SS} = V_{EE} = 0$ V; $V_I = V_{SS}$ or V_{DD} unless otherwise specified.

Symbol	Parameter	er Conditions		T _{amb} =	–40 °C	T _{amb} =	25 °C	T _{amb} =	85 °C	T _{amb} =	125 °C	Unit
				Min	Max	Min	Max	Min	Max	Min	Max	
I _{S(OFF)}	OFF-state leakage current	Z port; all channels OFF; see <u>Figure 9</u>	15 V	-	-	-	1000	-	-	-	-	nA
		Y port; per channel; see <u>Figure 10</u>	15 V	-	-	-	200	-	-	-	-	nA
I _{DD}	supply current	I _O = 0 A	5 V	-	5	-	5	-	150	-	150	μA
			10 V	-	10	-	10	-	300	-	300	μA
			15 V	-	20	-	20	-	600	-	600	μA
CI	input capacitance	Sn, \overline{E} inputs	-	-	-	-	7.5	-	-	-	-	pF

10.1 Test circuits







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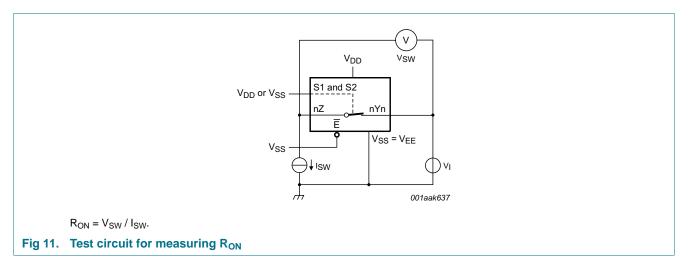
10.2 On resistance

Table 7. ON resistance

 $T_{amb}=25~^\circ\!\mathrm{C};~I_{SW}=200~\mu\mathrm{A};~V_{SS}=V_{EE}=0~V.$

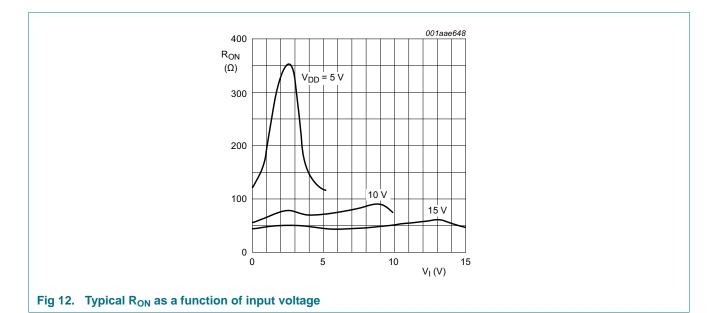
Symbol	Parameter	Conditions	$V_{DD} - V_{EE}$	Тур	Max	Unit
R _{ON(peak)}	ON resistance (peak)	$V_I = 0 V \text{ to } V_{DD} - V_{EE};$	5 V	350	2500	Ω
		see Figure 11 and Figure 12	10 V	80	245	Ω
			15 V	60	175	Ω
R _{ON(rail)}	ON resistance (rail)	$V_I = 0 V$; see <u>Figure 11</u> and <u>Figure 12</u>	5 V	115	340	Ω
			10 V	50	160	Ω
			15 V	40	115	Ω
		$V_I = V_{DD} - V_{EE};$	5 V	120	365	Ω
		see Figure 11 and Figure 12	10 V	65	200	Ω
			15 V	50	155	Ω
ΔR_{ON}	ON resistance mismatch	$V_I = 0 V$ to $V_{DD} - V_{EE}$; see Figure 11	5 V	25	-	Ω
	between channels		10 V	10	-	Ω
			15 V	5	-	Ω

10.2.1 On resistance waveform and test circuit



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11. Dynamic characteristics

Table 8. Dynamic characteristics

 $T_{amb} = 25 \ ^{\circ}C$; $V_{SS} = V_{EE} = 0 \ V$; for test circuit see <u>Figure 16</u>.

Symbol	Parameter	Conditions	V _{DD}	Тур	Max	Unit
t _{PHL}	HIGH to LOW propagation delay	nYn, nZ to nZ, nYn; see Figure 13	5 V	10	20	ns
			10 V	5	10	ns
			15 V	5	10	ns
		Sn to nYn, nZ; see Figure 14	5 V	150	305	ns
			10 V	65	135	ns
			15 V	50	100	ns
t _{PLH}	LOW to HIGH propagation delay	Yn, nZ to nZ, nYn; see Figure 13	5 V	10	20	ns
			10 V	5	10	ns
			15 V	5	10	ns
		Sn to nYn, nZ; see Figure 14	5 V	150	300	ns
			10 V	75	150	ns
			15 V	50	100	ns
t _{PHZ}	HIGH to OFF-state	E to nYn, nZ; see Figure 15	5 V	95	190	ns
	propagation delay		10 V	90	180	ns
			15 V	85	180	ns
t _{PZH}	OFF-state to HIGH	Ē to nYn, nZ; see Figure 15	5 V	130	260	ns
	propagation delay		10 V	55	115	ns
			15 V	45	85	ns
PLZ	LOW to OFF-state	Ē to nYn, nZ; see Figure 15	5 V	100	205	ns
	propagation delay		10 V	90	180	ns
			15 V	90	180	ns

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	$^{\circ}C$; $V_{SS} = V_{EE} = 0$ V; for tes					
Symbol	Parameter	Conditions	V _{DD}	Тур	Max	Unit
t _{PZL}	OFF-state to LOW	E to nYn, nZ; see Figure 15	5 V	120	240	ns
	propagation delay		10 V	50	100	ns
			15 V	35	75	ns

Table 8 **Dynamic characteristics** continued

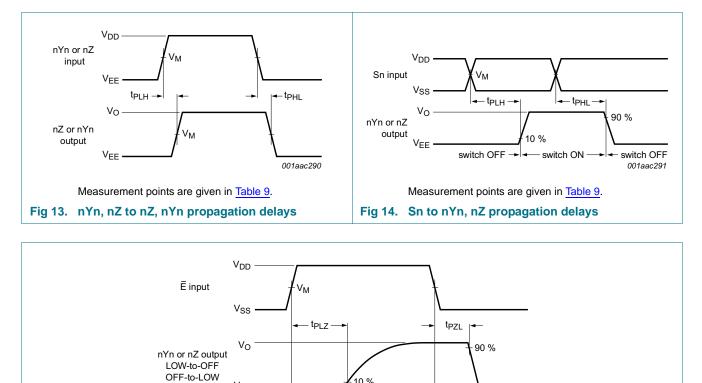
11.1 Waveforms and test circuit

V_{EE} .

Vo

V_{EE} -

nYn or nZ output HIGH-to-OFF OFF-to-HIGH



. 10 %

90 %

⊢t_{PZH}-

switch OFF

10 %

switch ON 001aac292

– t_{PHZ} -

switch ON ----



Table 9. **Measurement points**

Supply voltage	Input	Output
V _{DD}	V _M	V _M
5 V to 15 V	0.5V _{DD}	0.5V _{DD}

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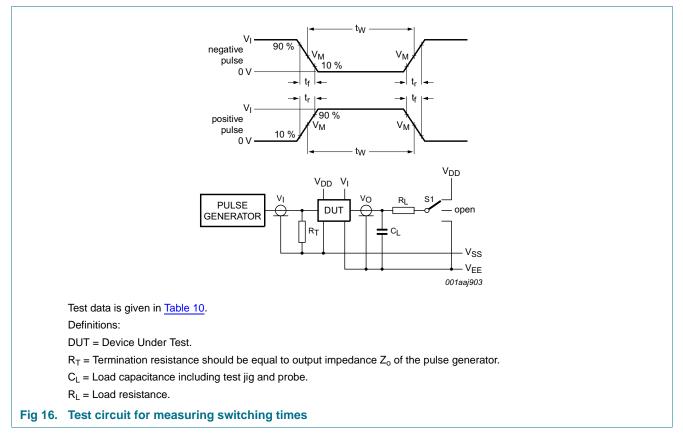


Table 10. Test data

Input				Load		S1 position				
nYn, nZ	Sn and \overline{E}	t _r , t _f	V _M	CL	RL	t _{PHL} [1]	t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	other
$V_{\text{DD}} \text{ or } V_{\text{EE}}$	V_{DD} or V_{SS}	≤ 20 ns	$0.5V_{DD}$	50 pF	10 kΩ	V_{DD} or V_{EE}	V _{EE}	V _{EE}	V _{DD}	V _{EE}

[1] For nYn to nZ propagation delays use V_{EE}. For Sn to nYn or nZ propagation delays use V_{DD}.

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11.2 Additional dynamic parameters

Table 11. Additional dynamic characteristics

 $V_{\text{SS}} = V_{EE} = 0$ V; $T_{amb} = 25$ °C.

Symbol	Parameter	Conditions	V _{DD}		Тур	Max	Unit
THD	total harmonic distortion	see Figure 17; $R_L = 10 \text{ k}\Omega$; $C_L = 15 \text{ pF}$; channel ON; $V_I = 0.5V_{DD}$ (p-p); $f_i = 1 \text{ kHz}$	5 V	[1]	0.25	-	%
			10 V	[1]	0.04	-	%
			15 V	[1]	0.04	-	%
f _(-3dB)	-3 dB frequency response	see Figure 18; $R_L = 1 \text{ k}\Omega$; $C_L = 5 \text{ pF}$; channel ON; $V_I = 0.5V_{DD}$ (p-p)	5 V	[1]	13	-	MHz
			10 V	[1]	40	-	MHz
			15 V	[1]	70	-	MHz
α_{iso}	isolation (OFF-state)	see Figure 19; $f_i = 1 \text{ MHz}$; $R_L = 1 \text{ k}\Omega$; $C_L = 5 \text{ pF}$; channel OFF; $V_I = 0.5V_{DD} \text{ (p-p)}$	10 V	<u>[1]</u>	-50	-	dB
V _{ct}	crosstalk voltage	digital inputs to switch; see Figure 20; $R_L = 10 \text{ k}\Omega; C_L = 15 \text{ pF};$ E or Sn = V _{DD} (square-wave)	10 V		50	-	mV
Xtalk	crosstalk	between switches; see <u>Figure 21</u> ; $f_i = 1 \text{ MHz}; R_L = 1 \text{ k}\Omega;$ $V_I = 0.5V_{DD} \text{ (p-p)}$	10 V	<u>[1]</u>	-50	-	dB

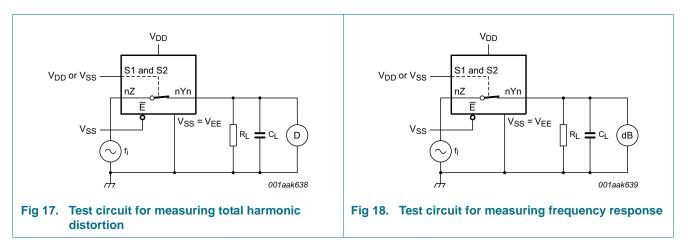
[1] f_i is biased at 0.5 V_{DD}; V_I = 0.5V_{DD} (p-p).

Table 12. Dynamic power dissipation P_D

 P_D can be calculated from the formulas shown; $V_{EE} = V_{SS} = 0$ V; $t_r = t_f \le 20$ ns; $T_{amb} = 25$ °C.

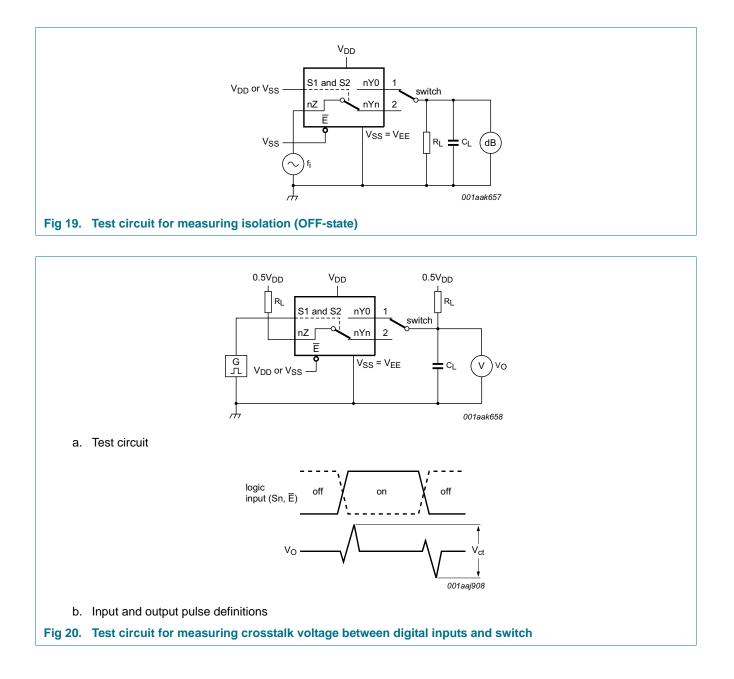
Symbol	Parameter	V _{DD}	Typical formula for P_D (μ W)	where:
PD	dynamic power	5 V	$P_D = 1300 \times f_i + \Sigma(f_o \times C_L) \times V_DD{}^2$	$f_i = input frequency in MHz;$
	dissipation	10 V	$P_{D} = 6100 \times f_{i} + \Sigma(f_{o} \times C_{L}) \times V_{DD}^{2}$	f _o = output frequency in MHz;
		15 V	$P_{D} = 15600 \times f_{i} + \Sigma (f_{o} \times C_{L}) \times V_{DD}^{2}$	C _L = output load capacitance in pF;
				V _{DD} = supply voltage in V;
				$\Sigma(C_L \times f_o)$ = sum of the outputs.

11.2.1 Test circuits



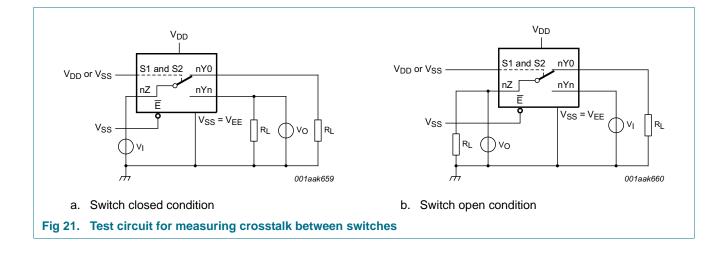
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12. Package outline

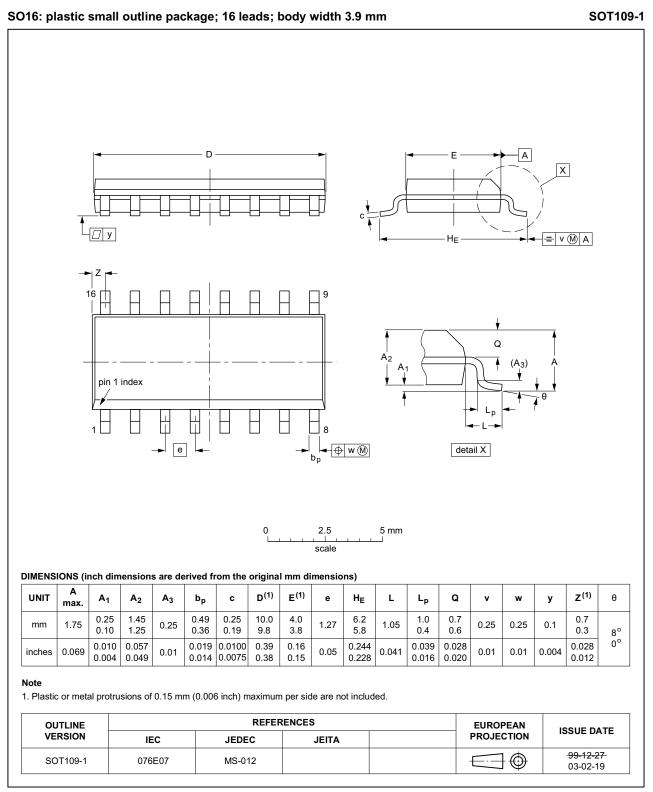


Fig 22. Package outline SOT109-1 (SO16)

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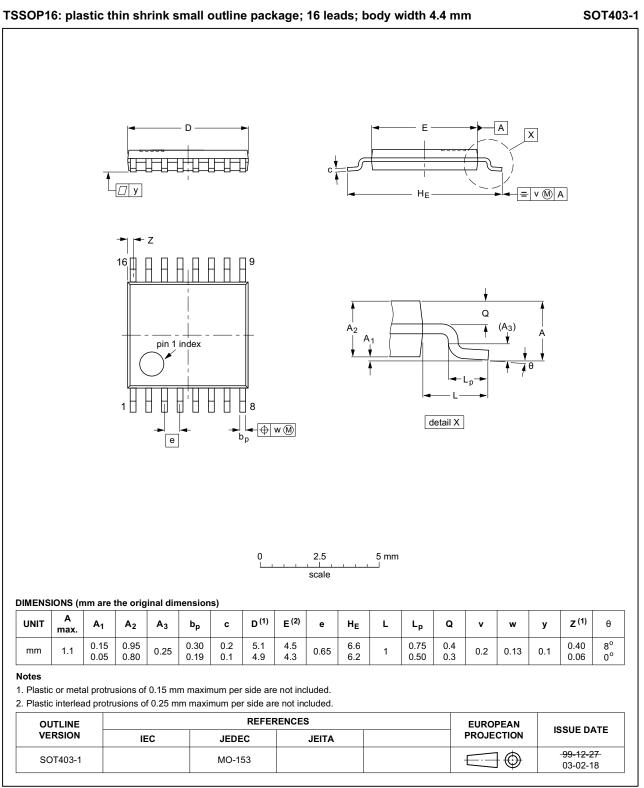


Fig 23. Package outline SOT403-1 (TSSOP16)

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13. Abbreviations

Table 13. Abbreviations					
Acronym	Description				
DUT	Device Under Test				

14. Revision history

Table 14. Revision history **Document ID Release date** Data sheet status Change notice **Supersedes** HEF4052B v.10 20160325 Product data sheet HEF4052B v.9 Modifications: • Type number HEF4052BP (SOT38-4) removed. HEF4052B v.9 20140911 Product data sheet HEF4052B v.8 _ Modifications: • Figure 20: Test circuit modified HEF4052B v.8 20111117 Product data sheet HEF4052B v.7 Modifications: · Legal pages updated. • Changes in "General description", "Features and benefits" and "Applications". HEF4052B v.7 20100326 Product data sheet HEF4052B v.6 HEF4052B v.6 20100308 Product data sheet HEF4052B v.5 _ HEF4052B v.5 Product data sheet HEF4052B v.4 20091127 HEF4052B v.4 HEF4052B_CNV v.3 20090924 Product data sheet HEF4052B_CNV v.3 Product specification HEF4052B_CNV v.2 19950101 _ HEF4052B_CNV v.2 Product specification 19950101

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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.

[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".

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Dual 4-channel analog multiplexer/demultiplexer

HEF4052B

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