HEF4052B

Dual 4-channel analog multiplexer/demultiplexer

Rev. 11 — 15 December 2021

Product data sheet

1. General description

The HEF4052B is a dual single-pole quad-throw analog switch (2x SP4T) suitable for use in analog or digital 4:1 multiplexer/demultiplexer applications. Each switch features four independent inputs/outputs (nY0, nY1, nY2 and nY3) and a common input/output (nZ). A digital enable input ($\overline{\mathbb{E}}$) and two digital select inputs (S1 and S2) are common to both switches. When $\overline{\mathbb{E}}$ is HIGH, the switches are turned off. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{DD} .

2. Features and benefits

- Wide supply voltage range from 3.0 V to 15.0 V
- CMOS low power dissipation
- · High noise immunity
- · Fully static operation
- 5 V, 10 V, and 15 V parametric ratings
- Standardized symmetrical output characteristics
- Complies with JEDEC standard JESD 13-B
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-B exceeds 200 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Applications

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

4. Ordering information

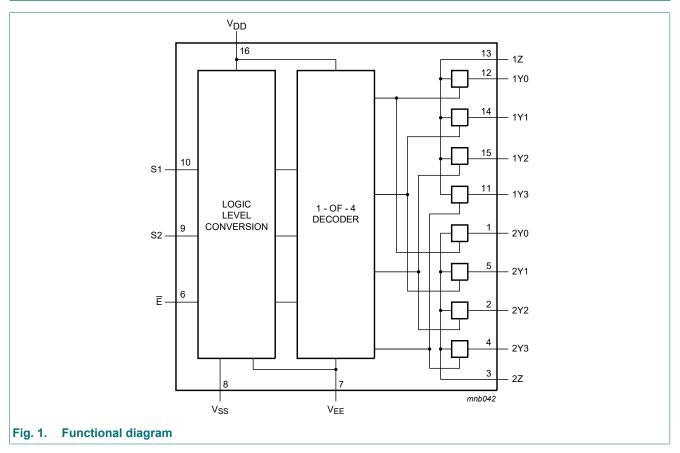
Table 1. Ordering information

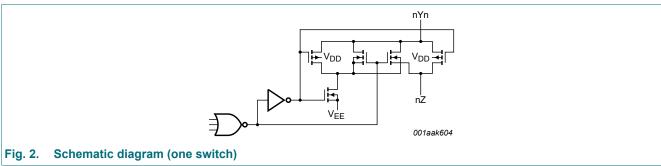
Type number Package								
	Temperature range	Name	Description	Version				
HEF4052BT	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1				
HEF4052BTT	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1				



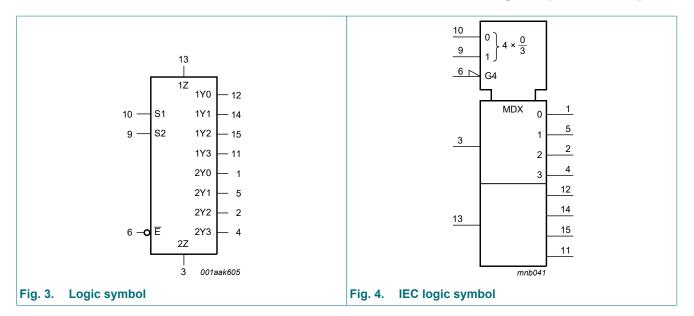
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5. Functional diagram

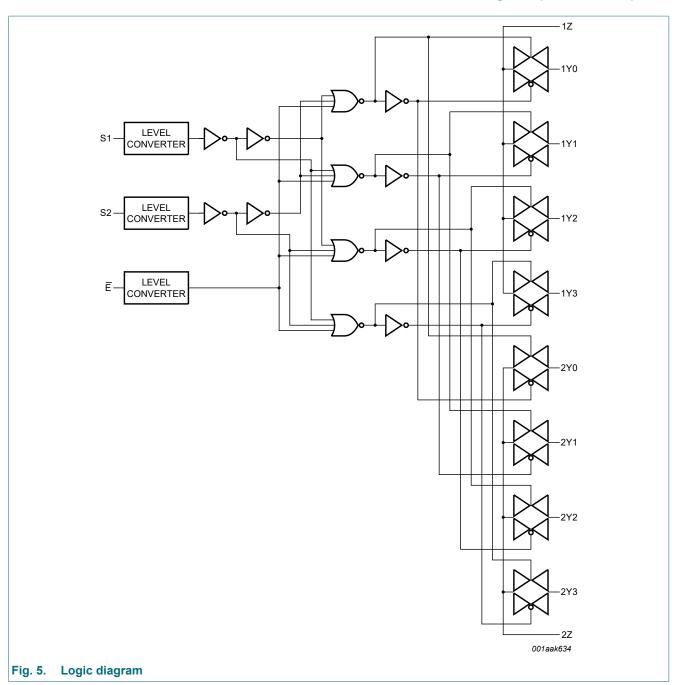




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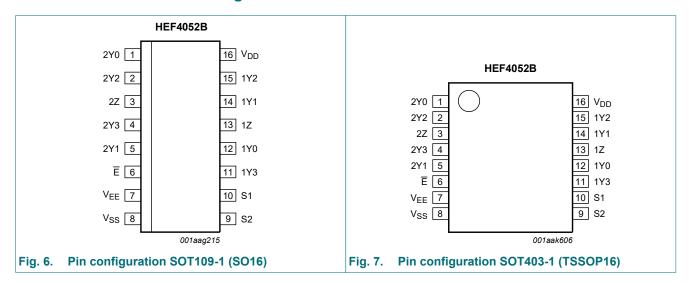
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Dual 4-channel analog multiplexer/demultiplexer

6. Pinning information

6.1. Pinning



6.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
E	6	enable input (active LOW)
V _{EE}	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. Function table

Table 3. Function table

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

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

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8. Limiting values

Table 4. Limiting values

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

Symbol	Parameter	Conditions		Min	Max	Unit
V_{DD}	supply voltage			-0.5	+18	V
V _{EE}	supply voltage	referenced to V _{DD}	[1]	-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 °C to +125 °C	[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}.

9. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{DD}	supply voltage	see Fig. 8	3	-	15	V
V _I	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

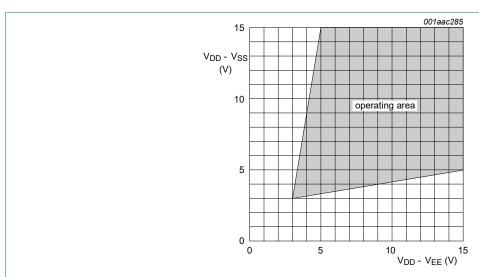


Fig. 8. Operating area as a function of the supply voltages

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^[2] 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.

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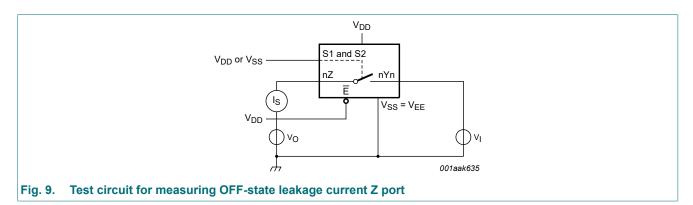
10. Static characteristics

Table 6. Static characteristics

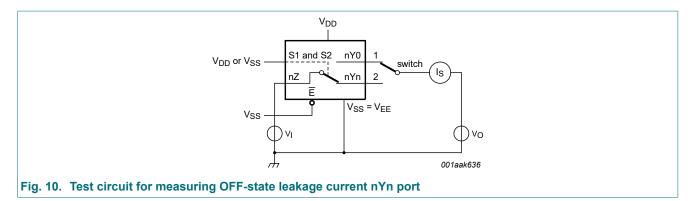
 $V_{SS} = V_{EE} = 0 \ V$; $V_I = V_{SS} \ or \ V_{DD}$, unless otherwise specified.

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	Max	Min	Max	Min	Max	
V _{IH}	HIGH-level	I _O < 1 μΑ	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 μΑ	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
l ₁	input leakage current		15 V	-	±0.1	-	±0.1	-	±1.0	-	±1.0	μΑ
I _{S(OFF)}	OFF-state leakage current	Z port; all channels OFF; see <u>Fig. 9</u>	15 V	-	-	-	1000	-	-	-	-	nA
		Y port; per channel; see <u>Fig. 10</u>	15 V	-	-	-	200	-	-	-	-	nA
I _{DD}	supply current	I _O = 0 A	5 V	-	5	-	5	-	150	-	150	μΑ
			10 V	-	10	-	10	-	300	-	300	μΑ
			15 V	-	20	-	20	-	600	-	600	μΑ
C _I	input capacitance	Sn, Ē inputs	-	-	-	-	7.5	-	-	-	-	pF

10.1. Test circuits



Dual 4-channel analog multiplexer/demultiplexer



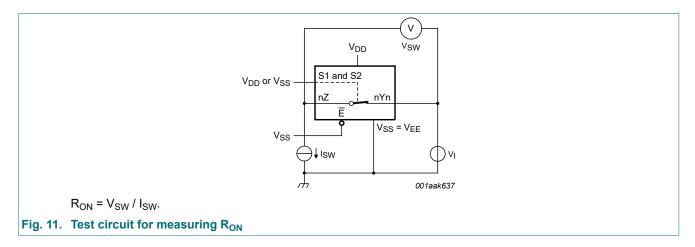
10.2. On resistance

Table 7. ON resistance

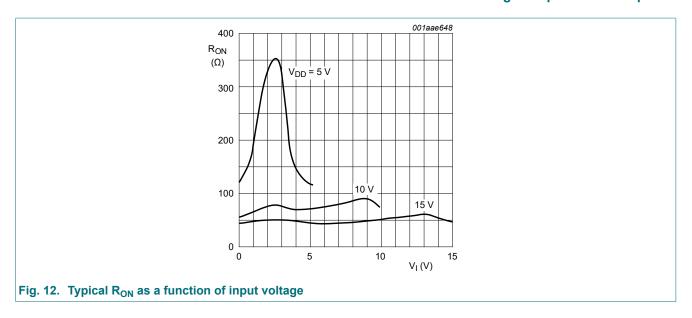
 T_{amb} = 25 °C; I_{SW} = 200 μ A; V_{SS} = V_{EE} = 0 V.

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 <u>Fig. 11</u> and <u>Fig. 12</u>	10 V	80	245	Ω
			15 V	60	175	Ω
R _{ON(rail)}	ON resistance (rail)	V _I = 0 V;	5 V	115	340	Ω
		see <u>Fig. 11</u> and <u>Fig. 12</u>	10 V	50	160	Ω
			15 V	40	115	Ω
		$V_I = V_{DD} - V_{EE};$	5 V	120	365	Ω
		see <u>Fig. 11</u> and <u>Fig. 12</u>	10 V	65	200	Ω
			15 V	50	155	Ω
ΔR _{ON}	ON resistance mismatch	$V_I = 0 V \text{ to } V_{DD} - V_{EE};$	5 V	25	-	Ω
	between channels	see Fig. 11	10 V	10	-	Ω
			15 V	5	-	Ω

10.2.1. On resistance waveform and test circuit



Dual 4-channel analog multiplexer/demultiplexer



11. Dynamic characteristics

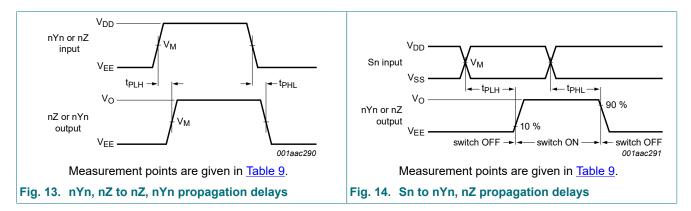
Table 8. Dynamic characteristics

 T_{amb} = 25 °C; V_{SS} = V_{EE} = 0 V; for test circuit see Fig. 16.

Symbol	Parameter	Conditions	V_{DD}	Тур	Max	Unit
t _{PHL}	HIGH to LOW propagation delay	nYn, nZ to nZ, nYn; see Fig. 13	5 V	10	20	ns
			10 V	5	10	ns
			15 V	5	10	ns
		Sn to nYn, nZ; see Fig. 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 Fig. 13	5 V	10	20	ns
			10 V	5	10	ns
			15 V	5	10	ns
		Sn to nYn, nZ; see Fig. 14	5 V	150	300	ns
			10 V	75	150	ns
			15 V	50	100	ns
t _{PHZ}	HIGH to OFF-state propagation	Ē to nYn, nZ; see Fig. 15	5 V	95	190	ns
	delay		10 V	90	180	ns
			15 V	85	180	ns
t _{PZH}	OFF-state to HIGH propagation	Ē to nYn, nZ; see Fig. 15	5 V	130	260	ns
	delay		10 V	55	115	ns
			15 V	45	85	ns
t _{PLZ}	LOW to OFF-state propagation	E to nYn, nZ; see Fig. 15	5 V	100	205	ns
	delay		10 V	90	180	ns
			15 V	90	180	ns
t _{PZL}	OFF-state to LOW propagation	E to nYn, nZ; see Fig. 15	5 V	120	240	ns
	delay		10 V	50	100	ns
			15 V	35	75	ns

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11.1. Waveforms and test circuit



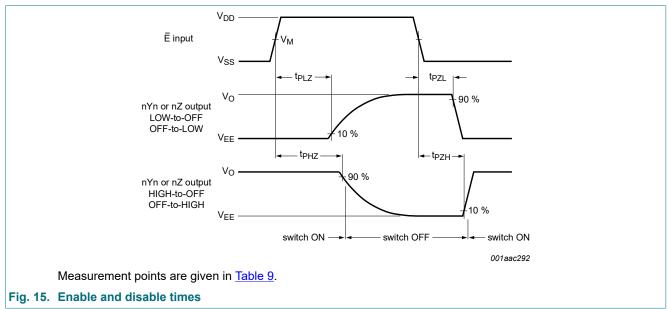
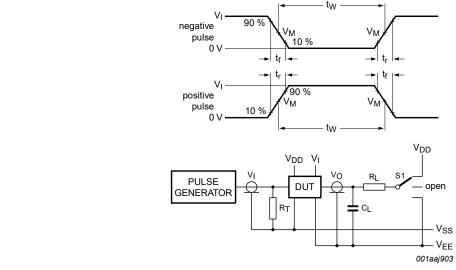


Table 9. Measurement points

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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Test data is given in Table 10.

Definitions:

 R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator;

C_L = Load capacitance including test jig and probe;

R_L = Load resistance.

Fig. 16. Test circuit for measuring switching times

Table 10. Test data

Input			Load		S1 position					
nYn, nZ	Sn and E	t _r , t _f	V _M	CL	R_L	t _{PHL} [1]	t _{PLH}	t_{PZH},t_{PHZ}	t_{PZL}, t_{PLZ}	other
V_{DD} or V_{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} .

11.2. Additional dynamic parameters

Table 11. Additional dynamic characteristics

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

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

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

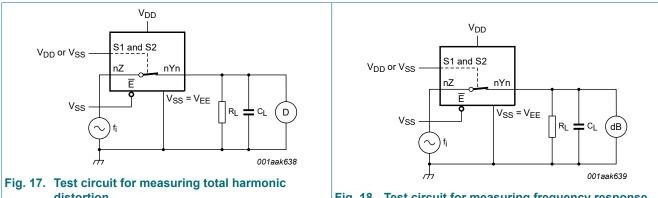
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Table 12. Dynamic power dissipation

 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 (μW)	where:
P_D	dynamic power	5 V	1 (0 1) 00	f _i = input frequency in MHz;
	dissipation	10 V		f _o = output frequency in MHz; C _L = output load capacitance in pF;
		15 V	$P_D = 15600 \times f_i + \Sigma (f_o \times C_L) \times V_{DD}^2$	V _{DD} = supply voltage in V;
				$\Sigma(C_L \times f_o)$ = sum of the outputs.

11.2.1. Test circuits



distortion

Fig. 18. Test circuit for measuring frequency response

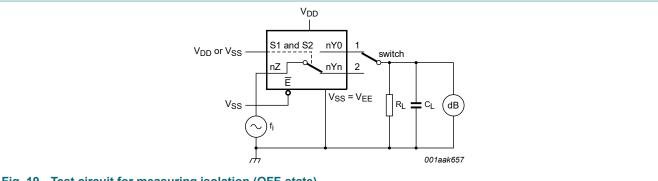
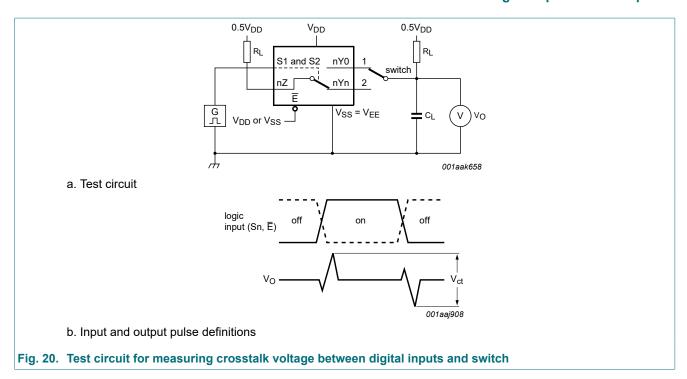
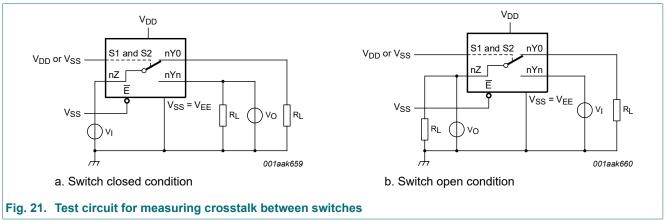


Fig. 19. Test circuit for measuring isolation (OFF-state)

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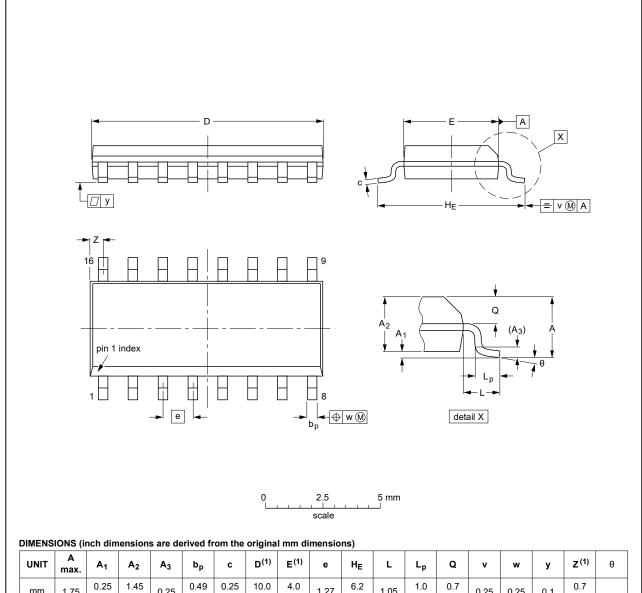


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12. Package outline

SO16: plastic small outline package; 16 leads; body width 3.9 mm

SOT109-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	10.0 9.8	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8°
inches	0.069	0.010 0.004	0.057 0.049	0.01		0.0100 0.0075	0.39 0.38	0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016	0.028 0.020	0.01	0.01	0.004	0.028 0.012	0°

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

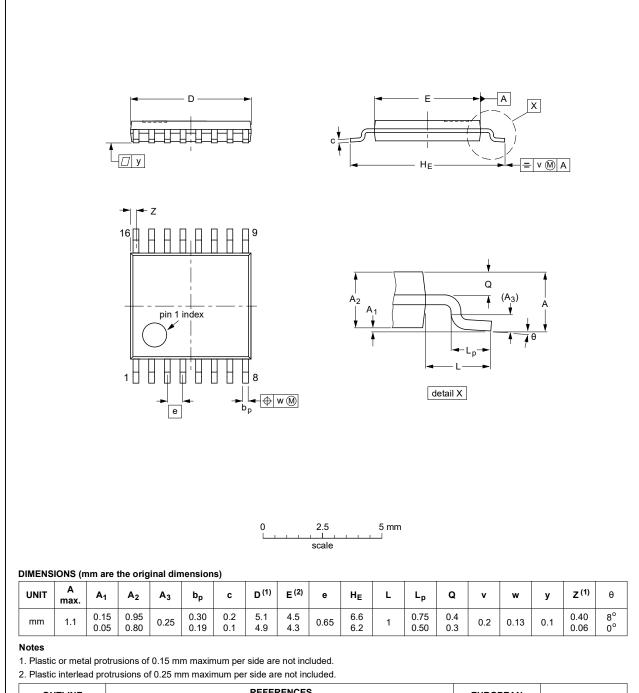
OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT109-1	076E07	MS-012				99-12-27 03-02-19	

Fig. 22. Package outline SOT109-1 (SO16)

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TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm

SOT403-1



OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT403-1		MO-153				99-12-27 03-02-18	

Fig. 23. Package outline SOT403-1 (TSSOP16)

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13. Abbreviations

Table 13. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model

14. Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
HEF4052B v.11	20211215	Product data sheet	-	HEF4052B v.10
Modifications:	Nexperia. Legal texts ha Section 1 and	this data sheet has been redes ve been adapted to the new co Section 2 updated. ing values for P _{tot} total power of ted.	ompany name where	
HEF4052B v.10	20160325	Product data sheet	-	HEF4052B v.9
Modifications:	Type number	HEF4052BP (SOT38-4) remov	ed.	
HEF4052B v.9	20140911	Product data sheet	-	HEF4052B v.8
Modifications:	• Fig. 20: Test c	ircuit modified		
HEF4052B v.8	20111117	Product data sheet	-	HEF4052B v.7
Modifications:	Legal pages uChanges in Se	pdated. ection 1, <u>Section 2</u> , and <u>Section</u>	<u>1 3</u> .	
HEF4052B v.7	20100326	Product data sheet	-	HEF4052B v.6
HEF4052B v.6	20100308	Product data sheet	-	HEF4052B v.5
HEF4052B v.5	20091127	Product data sheet	-	HEF4052B v.4
HEF4052B v.4	20090924	Product data sheet	-	HEF4052B_CNV v.3
HEF4052B_CNV v.3	19950101	Product specification	-	HEF4052B_CNV v.2
HEF4052B_CNV v.2	19950101	Product specification	-	-

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.
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".
- 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 https://www.nexperia.com.

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Dual 4-channel analog multiplexer/demultiplexer

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