HEF4051B

8-channel analog multiplexer/demultiplexer

Rev. 13 — 29 July 2021

Product data sheet

1. General description

The HEF4051B is a single-pole octal-throw analog switch (SP8T) suitable for use in analog or digital 8:1 multiplexer/demultiplexer applications. The switch features three digital select inputs (S1, S2 and S3), eight independent inputs/outputs (Yn), a common input/output (Z) and a digital enable input (\overline{E}). When \overline{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_{CC} .

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 EIA/JESD22-A115-A 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

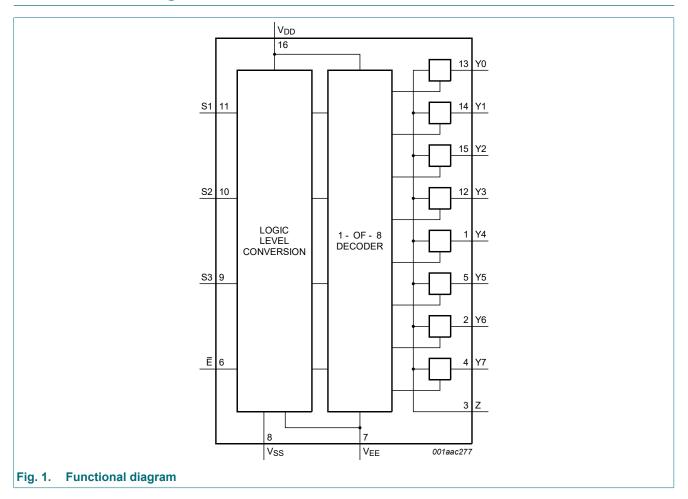
All types operate from -40 °C to +125 °C.

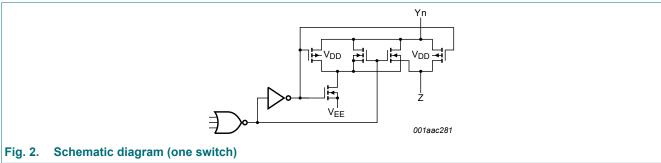
Type number	Package	ackage					
	Name	Description	Version				
HEF4051BT	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1				
HEF4051BTT	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1				



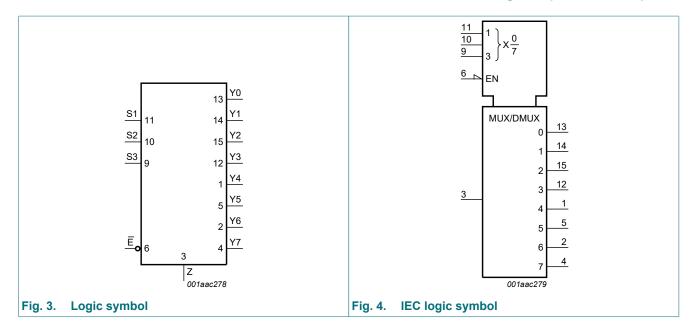
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5. Functional diagram

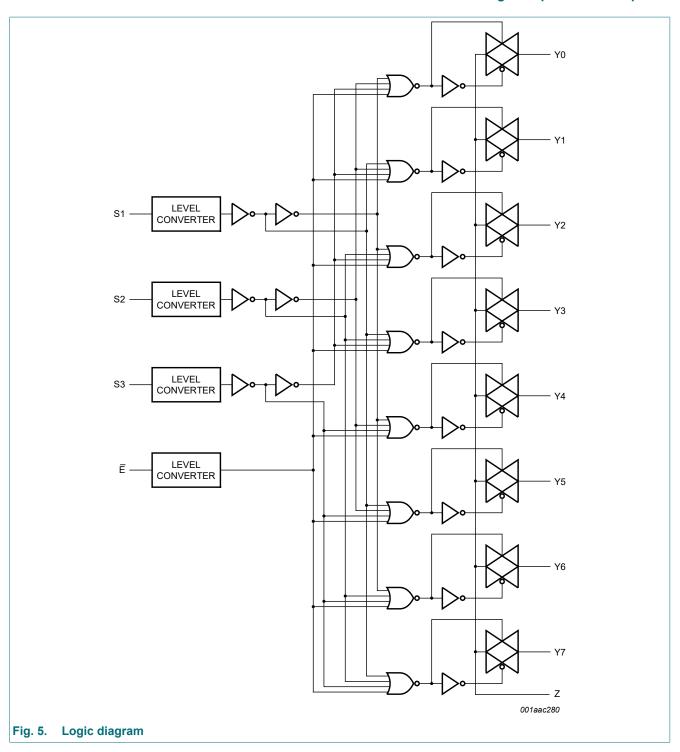




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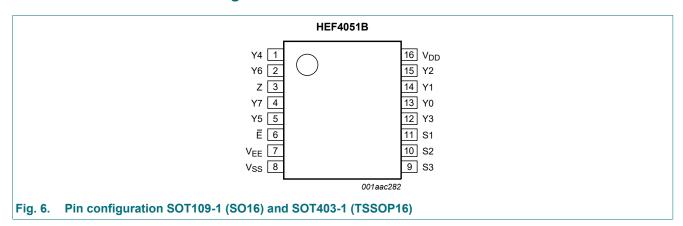
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6. Pinning information

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, S3	11, 10, 9	select input
Y0, Y1, Y2, Y3, Y4, Y5, Y6, Y7	13, 14, 15, 12, 1, 5, 2, 4	independent input or output
Z	3	common output or input
V_{DD}	16	supply voltage

7. Functional description

Table 3. Function table

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

Input						
E	S3	S2	S1			
L	L	L	L	Y0 to Z		
L	L	L	Н	Y1 to Z		
L	L	Н	L	Y2 to Z		
L	L	Н	Н	Y3 to Z		
L	Н	L	L	Y4 to Z		
L	Н	L	Н	Y5 to Z		
L	Н	Н	L	Y6 to Z		
L	Н	Н	Н	Y7 to Z		
Н	X	X	X	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).

		a			
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
Vı	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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ [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. 7	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 rate	V _{DD} = 5 V	-	-	3.75	μs/V
		V _{DD} = 10 V	-	-	0.5	μs/V
		V _{DD} = 15 V	-	-	0.08	μs/V

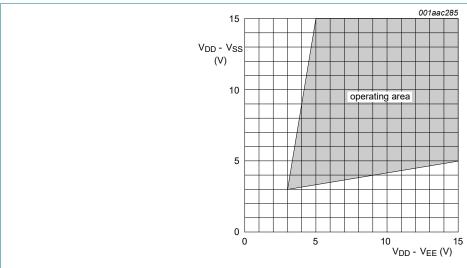


Fig. 7. Operating area as a function of the supply voltages

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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	
	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
I _I	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 Fig. 8	15 V	-	-	-	1000	-	-	-	-	nA
		Y port; per channel; see Fig. 9	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

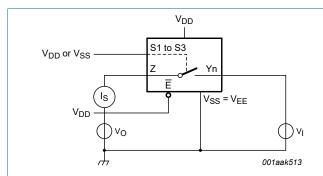


Fig. 8. Test circuit for measuring OFF-state leakage current Z port

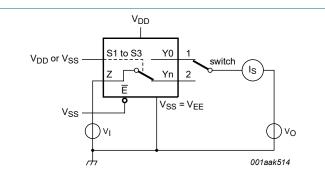


Fig. 9. Test circuit for measuring OFF-state leakage current Yn port

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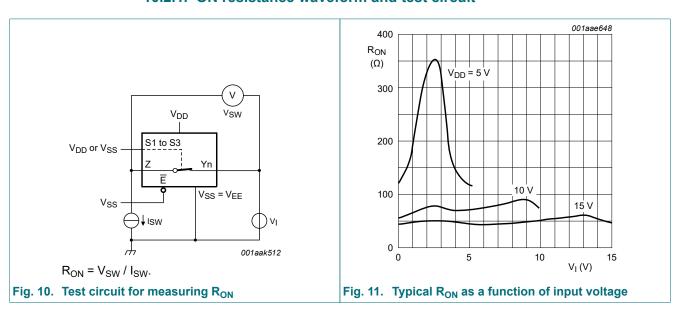
10.2. ON resistance

Table 7. ON resistance

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

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. 10</u> and <u>Fig. 11</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. 10</u> and <u>Fig. 11</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. 10</u> and <u>Fig. 11</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	n channels see <u>Fig. 10</u>	10 V	10	-	Ω
			15 V	5	-	Ω

10.2.1. ON resistance waveform and test circuit



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11. Dynamic characteristics

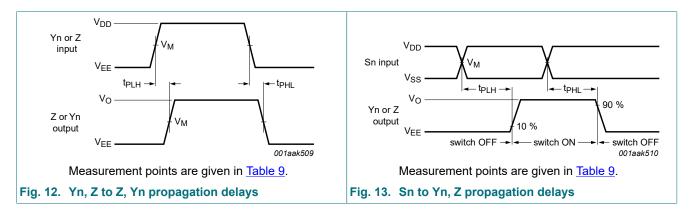
Table 8. Dynamic characteristics

 T_{amb} = 25 °C; V_{SS} = V_{EE} = 0 V; for test circuit see Fig. 15.

Symbol	Parameter	Conditions	V _{DD}	Тур	Max	Unit
t _{PHL}	HIGH to LOW propagation delay	Yn, Z to Z, Yn; see Fig. 12	5 V	15	30	ns
			10 V	5	10	ns
			15 V	5	10	ns
		Sn to Yn, Z; see Fig. 13	5 V	150	300	ns
			10 V	60	120	ns
			15 V	45	90	ns
t _{PLH}	LOW to HIGH propagation delay	Yn, Z to Z, Yn; see Fig. 12	5 V	15	30	ns
			10 V	5	10	ns
			15 V	5	10	ns
		Sn to Yn, Z; see Fig. 13	5 V	150	300	ns
			10 V	65	130	ns
			15 V	45	90	ns
t _{PHZ}	HIGH to OFF-state propagation	E to Yn, Z; see Fig. 14	5 V	120	240	ns
	delay		10 V	90	180	ns
			15 V	85	170	ns
t _{PZH}	OFF-state to HIGH propagation	E to Yn, Z; see Fig. 14	5 V	140	280	ns
	delay		10 V	55	110	ns
			15 V	40	80	ns
t _{PLZ}	LOW to OFF-state propagation	E to Yn, Z; see Fig. 14	5 V	145	290	ns
	delay		10 V	120	240	ns
			15 V	115	230	ns
t _{PZL}	OFF-state to LOW propagation	E to Yn, Z; see Fig. 14	5 V	140	280	ns
	delay		10 V	55	110	ns
			15 V	40	80	ns

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11.1. Waveforms and test circuit



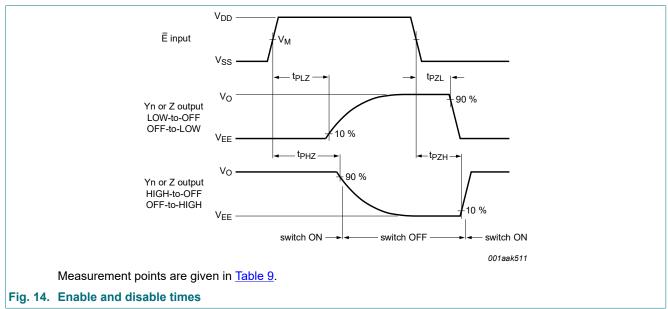
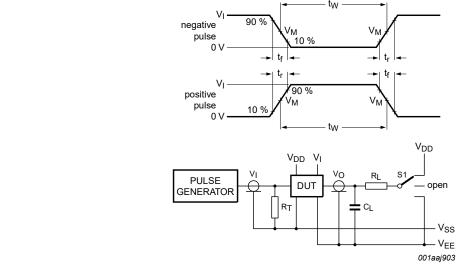


Table 9. Measurement points

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. 15. Test circuit for measuring switching times

Table 10. Test data

Input Load		S1 position								
Yn, Z	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 Yn to Z or Z to Yn propagation delays use V_{EE} . For Sn to Yn or Z 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	see <u>Fig. 16</u> ; $R_L = 10 \text{ k}\Omega$; $C_L = 15 \text{ pF}$;	5 V [1]	0.25	-	%
	distortion	channel ON; V _I = 0.5V _{DD} (p-p); f _i = 1 kHz	10 V [1]	0.04	-	%
			15 V [1]	0.04	-	%
f _(-3dB)	-3 dB frequency	see Fig. 17; $R_L = 1 \text{ k}\Omega$; $C_L = 5 \text{ pF}$; channel ON;	5 V [1]	13	-	MHz
	response	$V_{I} = 0.5V_{DD} (p-p)$	10 V [1]	40	-	MHz
			15 V [1]	70	-	MHz
α_{iso}	isolation (OFF-state)	see Fig. 18; f_i = 1 MHz; R_L = 1 k Ω ; C_L = 5 pF; channel OFF; V_I = 0.5 V_{DD} (p-p)	10 V [1]	-50	-	dB
V _{ct}	crosstalk voltage	digital inputs to switch; see Fig. 19; $R_L = 10 \text{ k}\Omega$; $C_L = 15 \text{ pF}$; E or Sn = V_{DD} (square-wave)	10 V	50	-	mV
Xtalk	crosstalk	between switches; see Fig. 20; f_i = 1 MHz; R_L = 1 k Ω ; V_I = 0.5 V_{DD} (p-p)	10 V [1]	-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 dissipationP_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 (μW)	where:
P_D	dynamic power	5 V	1 (0 1) 00	f _i = input frequency in MHz;
	dissipation	10 V	$P_D = 5500 \times f_i + \Sigma (f_o \times C_L) \times V_{DD}^2$	f _o = output frequency in MHz; C _L = output load capacitance in pF;
		15 V		V_{DD} = supply voltage in V; $\Sigma(C_L \times f_o)$ = sum of the outputs.

11.2.1. Test circuits

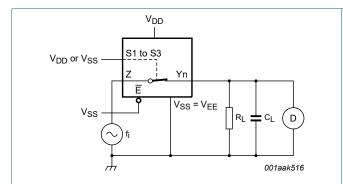


Fig. 16. Test circuit for measuring total harmonic distortion

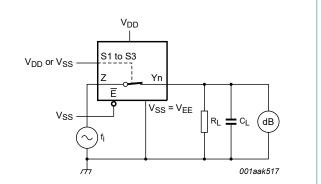


Fig. 17. Test circuit for measuring frequency response

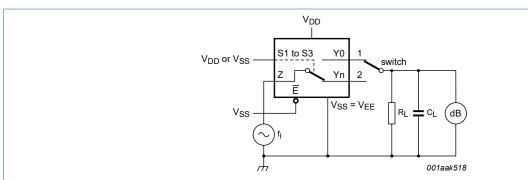
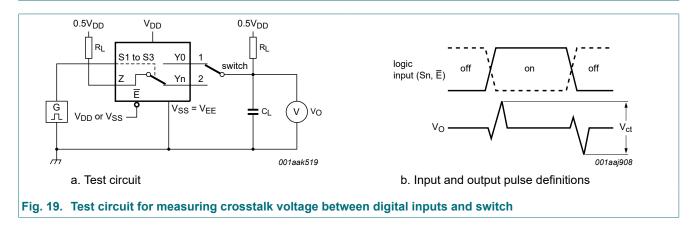
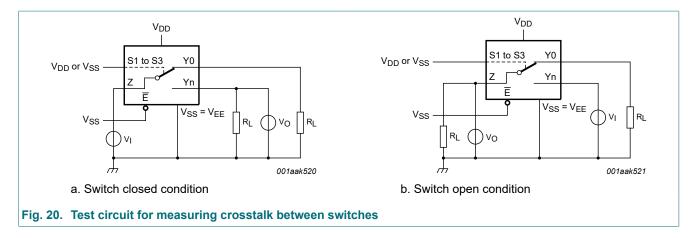


Fig. 18. Test circuit for measuring isolation (OFF-state)



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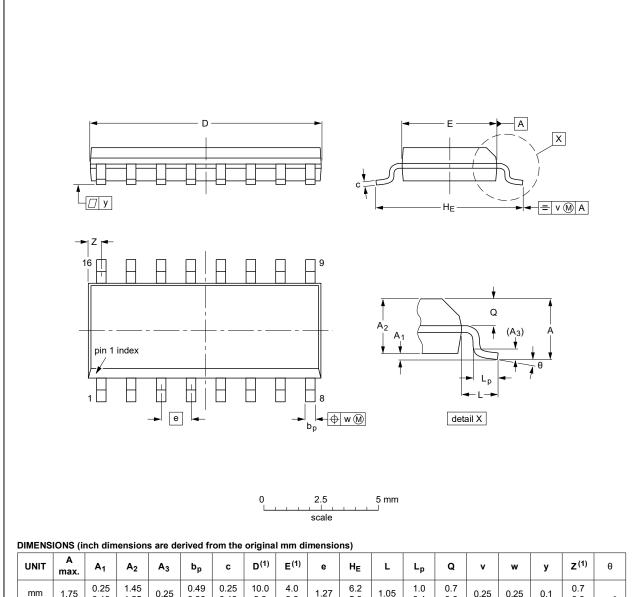


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12. Package outline

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		0.16 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. 21. 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

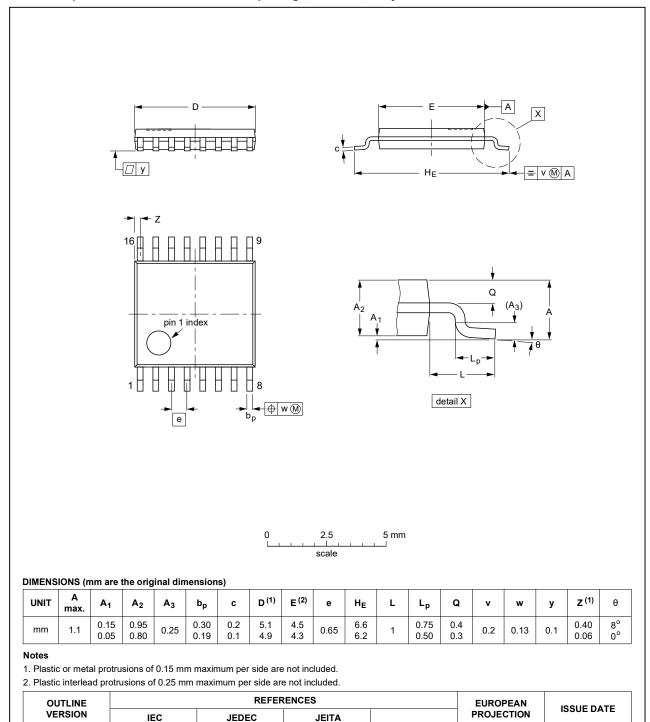


Fig. 22. Package outline SOT403-1 (TSSOP16)

MO-153

SOT403-1

99-12-27

03-02-18

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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			
HEF4051B v.13	20210729	Product data sheet	-	HEF4051B v.12			
Modifications:	guidelines o Legal texts I Type numbe Section 1 ar	Type hamber their 400 lb to (00 tools 1/000) fellioved.					
HEF4051B v.12	20160325	Product data sheet	-	HEF4051B v.11			
Modifications:	Type number	er HEF4051BP (SOT38-4)	removed.				
HEF4051B v.11	20140911	Product data sheet	-	HEF4051B v.10			
Modifications:	• <u>Fig. 19</u> : Tes	t circuit modified					
HEF4051B v.10	20111117	Product data sheet	-	HEF4051B v.9			
Modifications:	Legal pagesChanges in	s updated. "General description", "Fe	atures and benefit	s" and "Applications".			
HEF4051B v.9	20100325	Product data sheet	-	HEF4051B v.8			
HEF4051B v.8	20100301	Product data sheet	-	HEF4051B v.7			
HEF4051B v.7	20091127	Product data sheet	-	HEF4051B v.6			
HEF4051B v.6	20090924	Product data sheet	-	HEF4051B v.5			
HEF4051B v.5	20090826	Product data sheet	-	HEF4051B v.4			
HEF4051B v.4	20050112	Product data sheet	-	HEF4051B_CNV v.3			
HEF4051B_CNV v.3	19950101	Product specification	-	HEF4051B_CNV v.2			
HEF4051B_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".
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8-channel analog multiplexer/demultiplexer

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