

**24V General Purpose Analog Switch**

## Features

- Supply Voltage Range: 4.5 V to 24 V
- Dual Supply Range: up to  $\pm 12$  V
- Low ON-State Resistance: Typical  $55\ \Omega$  at  $V_S = 24$  V
- Bandwidth: 500 MHz
- Bidirectional Signal Path
- Rail-to-Rail Operation
- 1.8-V Logic Compatible
- Fast Switching Times:  
 $t_{ON} = 30$  ns  
 $t_{OFF} = 100$  ns
- Break-Before-Making Switching
- Operation Temperature Range:  $-40^\circ\text{C}$  to  $125^\circ\text{C}$

## Applications

- Industry Control Systems
- Battery-powered Systems
- Audio Signal Routing
- Instrumentation

## Description

The TPWH4051 is a single-pole octal-throw, 1-channel analog switch (SP8T) suitable for use in analog or digital 8:1 multiplexer/demultiplexer applications. The TPWH4052 is a single-pole quadrillion-throw, two-channel analog switch (SP4T) suitable for use in analog or digital 4:1 multiplexer/demultiplexer applications. The TPWH4053 is a single-pole binary-throw, three-channel analog switch (SP2T) suitable for use in analog or digital 2:1 multiplexer/demultiplexer applications. The switches support bidirectional analog signals on the source ( $S_x$ ) and drain ( $D_x$ ) pins ranging from  $V_{EE}$  to  $V_{CC}$ . The switches feature a digital enable input ( $\overline{EN}$ ). When  $\overline{EN}$  is HIGH, the switches are turned off. The switches are designed on an enhanced process that provides lower power dissipation yet gives high switching speeds. All channels exhibit break-before-make switching action, preventing momentary shorting when switching channels.

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TPWH405x

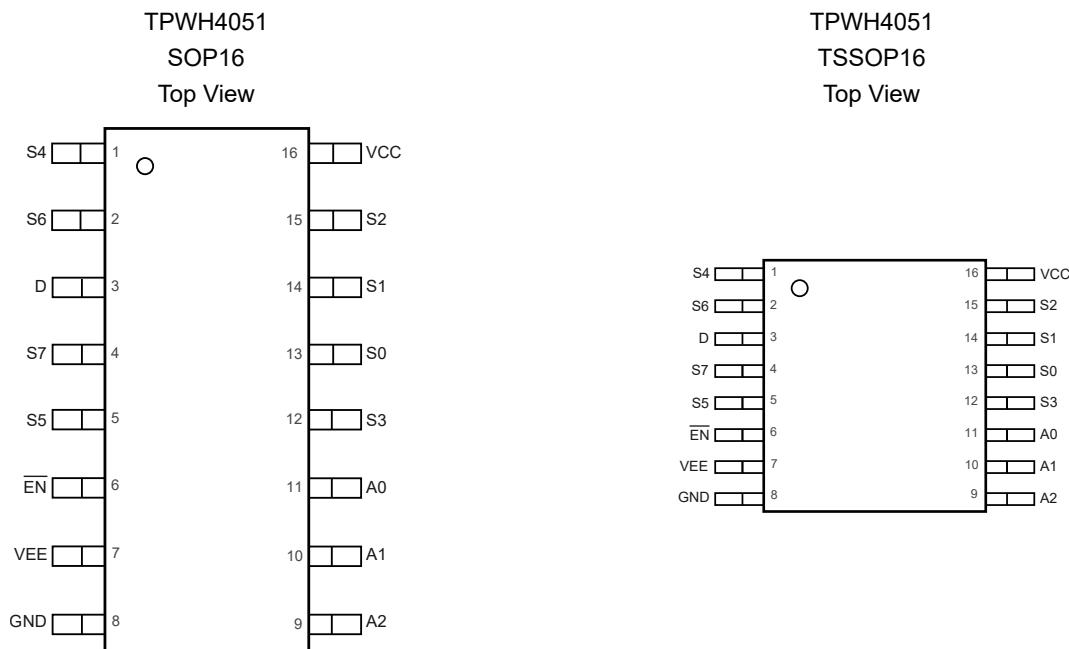
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## Revision History

Date	Revision	Notes
2025-07-08	Rev.A.0	Initial Version.

## Pin Configuration and Functions

### TPWH4051 Pin Configuration and Function Table



**Table 1. Pin Functions: TPWH4051**

Pin No.	Name	I/O	Description
1	S4	I/O	Channel 4 input or output.
2	S6	I/O	Channel 6 input or output.
3	D	I/O	Common input or output.
4	S7	I/O	Channel 7 input or output.
5	S5	I/O	Channel 5 input or output.
6	$\bar{EN}$	I	Enable switches, active low.
7	VEE		Negative Power Input.
8	GND		Ground (0 V) reference.
9	A2	I	Control Input.
10	A1	I	Control Input.
11	A0	I	Control Input.
12	S3	I/O	Channel 3 input or output.
13	S0	I/O	Channel 0 input or output.
14	S1	I/O	Channel 1 input or output.
15	S2	I/O	Channel 2 input or output.
16	VCC		Positive Power Input.

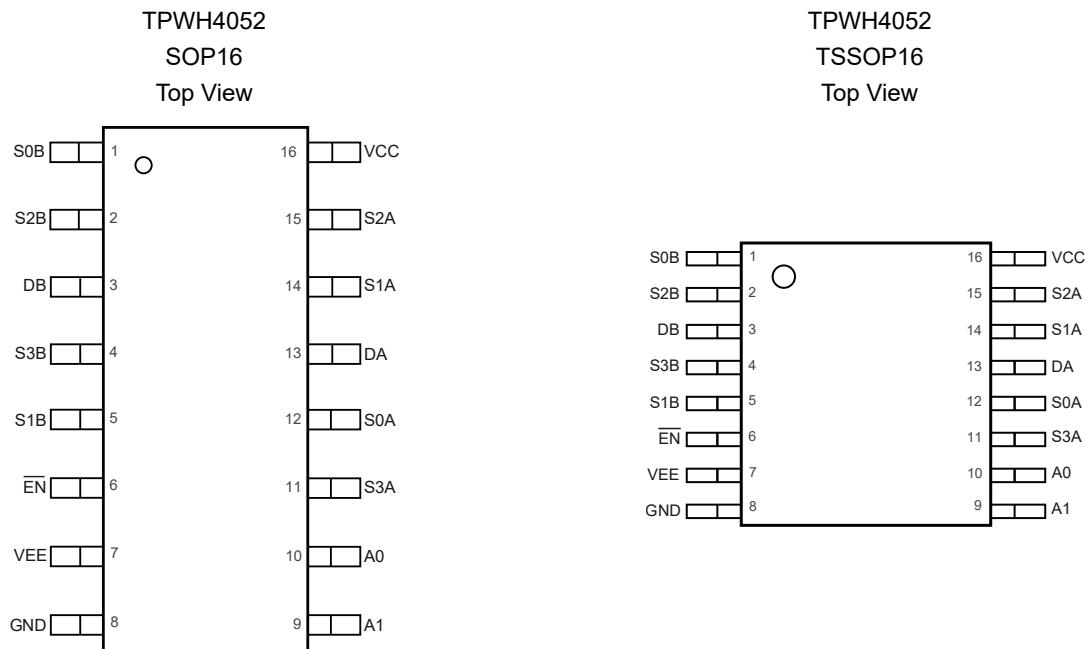
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**Table 2. Function Table: TPWH4051**

<b>EN</b>	<b>A2</b>	<b>A1</b>	<b>A0</b>	<b>Selected Signal Path Connected to Drain (D) Pin</b>
0	0	0	0	S0
0	0	0	1	S1
0	0	1	0	S2
0	0	1	1	S3
0	1	0	0	S4
0	1	0	1	S5
0	1	1	0	S6
0	1	1	1	S7
1	X <sup>(1)</sup>	X <sup>(1)</sup>	X <sup>(1)</sup>	All inputs are unselected (HI-Z)

(1) X denotes do not care.

(2) The Enable pin,  $\overline{EN}$ , of the TPWH4051 has a weak internal pull-up resistor to put the devices into a disabled state upon power up. The Address pins ( $A_x$ ) have weak internal pull-down resistors to put the switch into a defined logic state.

### TPWH4052 Pin Configuration and Function Table



**Table 3. Pin Functions: TPWH4052**

Pin No.	Name	I/O	Description
1	S0B	I/O	Channel 0 input or output of mux B.
2	S2B	I/O	Channel 2 input or output of mux B.
3	DB	I/O	Common input or output of mux B.
4	S3B	I/O	Channel 3 input or output of mux B.
5	S1B	I/O	Channel 1 input or output of mux B.
6	$\overline{EN}$	I	Enable switches, active low.
7	VEE		Negative Power Input.
8	GND		Ground (0 V) reference.
9	A1	I	Control Input.
10	A0	I	Control Input.
11	S3A	I/O	Channel 3 input or output of mux A.
12	S0A	I/O	Channel 0 input or output of mux A.
13	DA	I/O	Common input or output of mux A.
14	S1A	I/O	Channel 1 input or output of mux A.
15	S2A	I/O	Channel 2 input or output of mux A.
16	VCC		Positive Power Input.

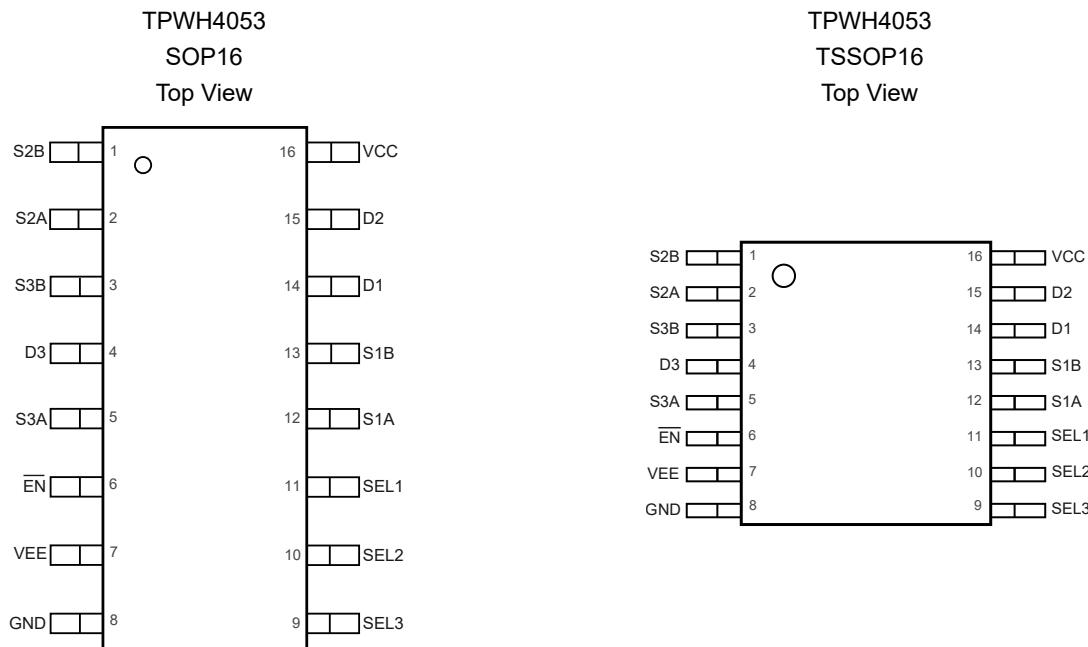
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**Table 4. Function Table: TPWH4052**

<b>EN</b>	<b>A1</b>	<b>A0</b>	<b>Selected Signal Path Connected to Drain (D) Pin</b>
0	0	0	S0A to DA S0B to DB
0	0	1	S1A to DA S1B to DB
0	1	0	S2A to DA S2B to DB
0	1	1	S3A to DA S3B to DB
1	X <sup>(1)</sup>	X <sup>(1)</sup>	All inputs are unselected (Hi-Z)

(1) X denotes do not care.

(2) The Enable pin, **EN**, of the TPWH4052 has a weak internal pull-up resistor to put the devices into a disabled state upon power up. The Address pins (Ax) have weak internal pull-down resistors to put the switch into a defined logic state.

### TPWH4053 Pin Configuration and Function Table



**Table 5. Pin Functions: TPWH4053**

Pin No.	Name	I/O	Description
1	S2B	I/O	Channel B input or output of mux 2.
2	S2A	I/O	Channel A input or output of mux 2.
3	S3B	I/O	Channel B input or output of mux 3.
4	D3	I/O	Common input or output of mux 3.
5	S3A	I/O	Channel A input or output of mux 3.
6	$\overline{EN}$	I	Enable switches, active low.
7	VEE		Negative Power Input.
8	GND		Ground (0 V) reference.
9	SEL3	I	Control Input.
10	SEL2	I	Control Input.
11	SEL1	I	Control Input.
12	S1A	I/O	Channel A input or output of mux 1.
13	S1B	I/O	Channel B input or output of mux 1.
14	D1	I/O	Common input or output of mux 1.
15	D2	I/O	Common input or output of mux 2.
16	VCC		Positive Power Input.

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**Table 6. Function Table: TPWH4053**

<b>EN</b>	<b>SEL1</b>	<b>SEL2</b>	<b>SEL3</b>	<b>Selected Signal Path Connected to Drain (D) Pin</b>
0	0	X	X	S1A to D1
0	1	X	X	S1B to D1
0	X	0	X	S2A to D2
0	X	1	X	S2B to D2
0	X	X	0	S3A to D3
0	X	X	1	S3B to D3
1	X <sup>(1)</sup>	X <sup>(1)</sup>	X <sup>(1)</sup>	All inputs are unselected (Hi-Z)

(1) X denotes do not care.

(2) The Enable pin,  $\overline{EN}$ , of the TPWH4053 has a weak internal pull-up resistor to put the devices into a disabled state upon power up. The SEL pins (SELx) have weak internal pull-down resistors to put the switch into a defined logic state.

## Specifications

### Absolute Maximum Ratings (1)(3)

Parameter		Min	Max	Unit
V <sub>CC</sub> - V <sub>EE</sub>	Supply Voltage	-0.5	28	V
V <sub>CC</sub> - GND		-0.5	28	V
V <sub>EE</sub> - GND		-28	0.5	V
V <sub>Ax</sub> or V <sub>EN</sub>	Logic Control Input Voltage (EN, Ax)	GND	V <sub>CC</sub> + 0.5	V
I <sub>SEL</sub> or I <sub>EN</sub>	Logic Control Input Diode Current (EN, Ax)	-30	+30	mA
V <sub>S</sub> or V <sub>D</sub>	Analog Switch Voltage (S <sub>x</sub> , D)	V <sub>EE</sub> - 0.5	V <sub>CC</sub> + 0.5	V
I <sub>S</sub> or I <sub>D</sub> (CONT)	Analog Switch Current (S <sub>x</sub> , D)	-25	25	mA
I <sub>IK</sub>	Analog Switch Diode Current <sup>(2)</sup>	-30	30	mA
T <sub>J</sub>	Junction Temperature		150	°C
T <sub>STG</sub>	Storage Temperature	-65	150	°C
T <sub>L</sub>	Lead Temperature (Soldering, 10 sec)		260	°C

(1) Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. Exposure to any Absolute Maximum Rating condition for extended periods may affect device reliability and lifetime.

(2) Pins are diode-clamped to the power-supply rails. Over voltage signals must be voltage and current limited to maximum ratings.

(3) To avoid drawing excess current from V<sub>CC</sub>, or into V<sub>EE</sub>, the voltage drop across the bidirectional switch path ( $\Delta V_{\text{switch}}$ ) must not exceed 1.2 V (600 mV for high temperature).

### ESD, Electrostatic Discharge Protection

Symbol	Parameter	Condition	Minimum Level	Unit
HBM	Human Body Model ESD	ANSI/ESDA/JEDEC JS-001 <sup>(1)</sup>	±4	kV
CDM	Charged Device Model ESD	ANSI/ESDA/JEDEC JS-002 <sup>(2)</sup>	±1.5	kV

(1) JEDEC document JEP155 states that 500-V HBM allows safe manufacturing with a standard ESD control process.

(2) JEDEC document JEP157 states that 250-V CDM allows safe manufacturing with a standard ESD control process.

### Recommended Operating Conditions <sup>(1)</sup>

Parameter	Min	Max	Unit
Supply Voltage, V <sub>CC</sub> - V <sub>EE</sub>	4.5	24	V
Supply Voltage, V <sub>CC</sub> - GND <sup>(2)</sup>	4.5	24	V
Supply Voltage, V <sub>EE</sub> - GND <sup>(2)</sup>	-15	0	V
Select Input Voltage	0	V <sub>CC</sub>	V
Input Transition Rise and Fall Rate		100	ns/V
Switch I/O Port Voltage	V <sub>EE</sub>	V <sub>CC</sub>	V
Ambient Temperature	-40	125	°C

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- (1) Input select must be held HIGH or LOW and it shouldn't float.  
(2) The voltage of  $V_{CC}$  and  $V_{EE}$  needs to be in the range of  $V_{CC} - V_{EE}$ .

**Thermal Information**

Package Type	$\theta_{JA}$	$\theta_{JC}$	Unit
SOP16	100	50	°C/W
TSSOP16	150	60	°C/W

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**Electrical Characteristics**

All test conditions: over ambient temperature range, typical at  $T_A = 25^\circ\text{C}$ , unless otherwise noted.

Symbol	Parameter	Conditions	$V_{cc}$ (V)	$V_{EE}$ (V)	GPN	Min	Typ	Max	Unit
<b>Power Supply</b>									
$I_{cc}$	Supply Current	$\overline{EN} = 0 \text{ V}$	5	0	All		23	40	$\mu\text{A}$
			10	0			24	46	$\mu\text{A}$
			24	0			26	50	$\mu\text{A}$
			5	-5			25	50	$\mu\text{A}$
			12	-12			27	55	$\mu\text{A}$
$I_{EE}$	Negative Supply Current	$\overline{EN} = 0 \text{ V}$	5	-5	TPWH4051		11	25	$\mu\text{A}$
			12	-12			12	25	$\mu\text{A}$
			5	-5	TPWH4052		15	27	$\mu\text{A}$
			12	-12			16	27	$\mu\text{A}$
			5	-5	TPWH4053 (2)		18	29	$\mu\text{A}$
			12	-12			19	29	$\mu\text{A}$
$I_{cc}$ disable		$\overline{EN} = 5 \text{ V or } V_{cc}$	All		All		12	25	$\mu\text{A}$
<b>Logic Input (A2, A1, A0, <math>\overline{EN}</math>)</b>									
$V_{IH}$	Input Voltage High		All		All	1.4		$V_{cc}$	V
$V_{IL}$	Input Voltage Low		All		All	0		0.8	V
$I_{IH}$ , $I_{IL}$	Logic Input Current	$V_{Logic} = 0 \text{ V, } 5 \text{ V or } V_{cc}$	All		All	-1.5	$\pm 0.6$	1.5	$\mu\text{A}$
$C_{IN}$			All		All		2		pF
<b>Analog Switch</b>									
$R_{ON}$	On Resistance	$V_S = V_{EE} \text{ to } V_{cc}$ , $I_D = -1 \text{ mA}$ , <a href="#">Figure 9</a>	5	0	All		65	210	$\Omega$
			10	0			55	210	$\Omega$
			24	0			55	210	$\Omega$
			5	-5			60	210	$\Omega$
			12	-12			55	210	$\Omega$
$\Delta R_{ON}$	On Resistance Match Between Channels	$V_S = V_{EE} \text{ to } V_{cc}$ , $I_D = -1 \text{ mA}$	All		All		2		$\Omega$
$R_{FLAT(ON)}$	On Resistance Flatness	$V_S = V_{EE} \text{ to } V_{cc}$ , $I_D = -1 \text{ mA}$	All		All		56	120	$\Omega$
$I_{S(Off)}$ $I_{D(Off)}$	Source/Drain Off Leakage	Switch state is off, $V_S = V_{EE}, V_{cc}$ , $V_D = V_{cc}, V_{EE}$ , <a href="#">Figure 10</a>	24	0	All	-1000	$\pm 0.5$	1000	nA

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Symbol	Parameter	Conditions	V <sub>CC</sub> (V)	V <sub>EE</sub> (V)	GPN	Min	Typ	Max	Unit
I <sub>ON</sub>	Channel On Leakage	Switch state is on, V <sub>S</sub> = V <sub>D</sub> = V <sub>EE</sub> or V <sub>CC</sub> , <a href="#">Figure 11</a>	24	0	All	-1000	±0.5	1000	nA

**24V General Purpose Analog Switch**
**AC Performance Characteristics**

All test conditions: over ambient temperature range, typical at  $T_A = 25^\circ\text{C}$ , unless otherwise noted.

Symbol	Parameter	Conditions	$V_{CC}$ (V)	$V_{EE}$ (V)	GPN	Min	Typ	Max	Unit
<b>Capacitance</b>									
C <sub>S</sub> (Off)	Source Off Capacitance	$V_S = (V_{CC} + V_{EE}) / 2$ , f = 1 MHz	5	-5	All		2		pF
			24	0			2		pF
C <sub>D</sub> (Off)	Drain Off Capacitance	$V_S = (V_{CC} + V_{EE}) / 2$ , f = 1 MHz	5	-5	TPWH4051		7		pF
			24	0			7		pF
			5	-5	TPWH4052 (2)		6		pF
			24	0			5		pF
			5	-5	TPWH4053 (2)		4		pF
			24	0			3		pF
C <sub>S</sub> (On) C <sub>D</sub> (On)	Switch On Capacitance	$V_S = (V_{CC} + V_{EE}) / 2$ , f = 1 MHz	5	-5	TPWH4051		9		pF
			24	0			9		pF
			5	-5	TPWH4052 (2)		8		pF
			24	0			7		pF
			5	-5	TPWH4053 (2)		6		pF
			24	0			5		pF
<b>Dynamic Characteristics</b>									
BW (Sine Wave Input)	Bandwidth	$V_{BIAS} = (V_{CC} + V_{EE}) / 2$ <sup>(1)</sup> , $V_S = 200 \text{ mV}_{PP}$ , $R_L = 50 \Omega$ , $C_L = 5 \text{ pF}$ , <a href="#">Figure 19</a>	5	-5	TPWH4051		500		MHz
			12	-12			600		MHz
			5	-5	TPWH4052		600		MHz
			12	-12			700		MHz
			5	-5	TPWH4053 (2)		550		MHz
			12	-12			590		MHz
OISO (Sine Wave Input)	Off Isolation (Channel Off)	$V_{BIAS} = (V_{CC} + V_{EE}) / 2$ <sup>(1)</sup> , $V_S = 200 \text{ mV}_{PP}$ , $R_L = 50 \Omega$ , $C_L = 5 \text{ pF}$ , $f = 1 \text{ MHz}$ , <a href="#">Figure 17</a>	5	-5	All		-95		dB
			12	-12			-95		dB
XTALK (Sine Wave Input)	Crosstalk	$V_{BIAS} = (V_{CC} + V_{EE}) / 2$ <sup>(1)</sup> , $V_S = 200 \text{ mV}_{PP}$ , $R_L = 50 \Omega$ , $C_L = 5 \text{ pF}$ , $f = 1 \text{ MHz}$ , <a href="#">Figure 18</a>	5	-5	All		-90		dB
			12	-12			-90		dB
QINJ	Charge Injection	$V_S = (V_{CC} + V_{EE}) / 2$ , $R_S = 0 \Omega$ , $C_L = 100 \text{ pF}$ , <a href="#">Figure 16</a>	5	-5	All		3		pC
			24	0			4		pC
t <sub>PD</sub>	Signal Input to Signal Output	$V_S = V_{EE}$ to $V_{CC}$ , $C_L = 20 \text{ pF}$ ,	5	0	All		3	15	ns
			10	0			3	15	ns

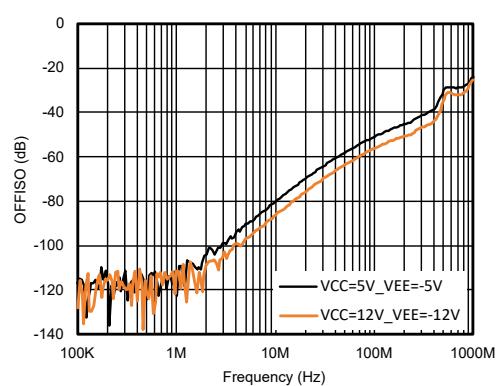
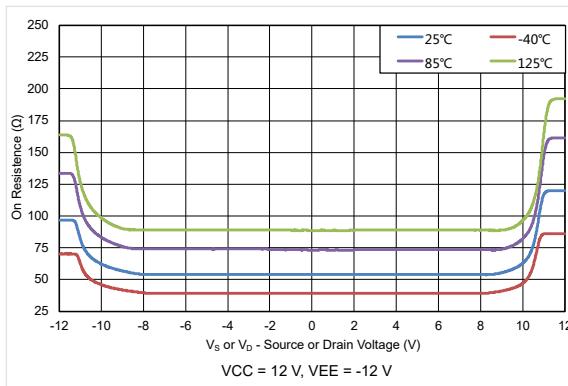
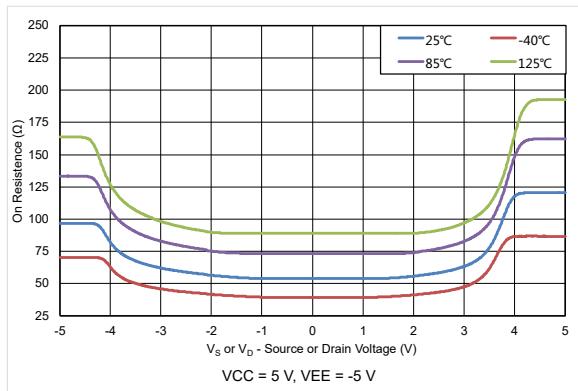
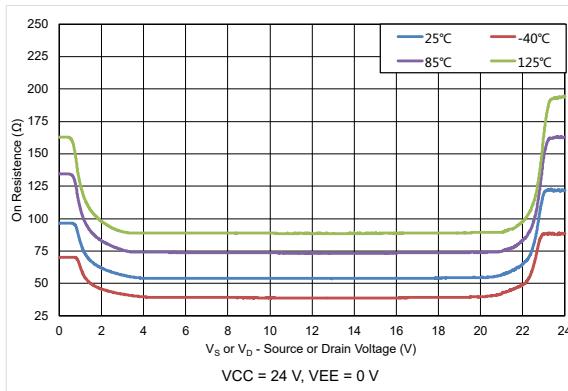
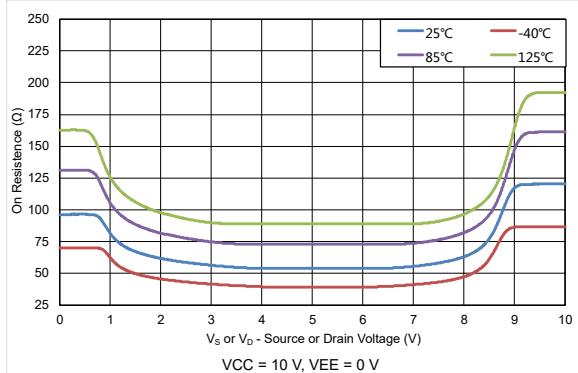
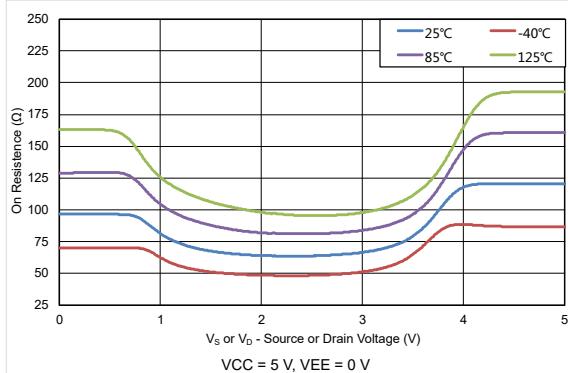
**24V General Purpose Analog Switch**

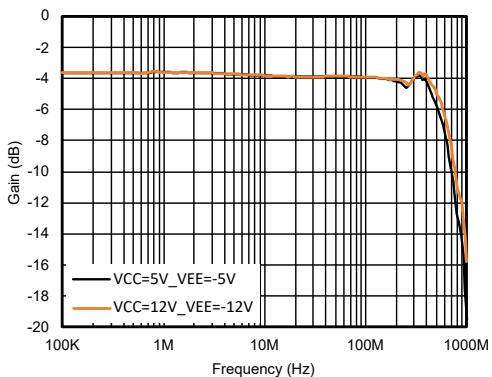
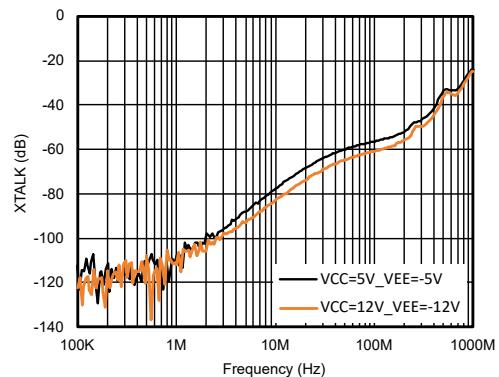
<b>Symbol</b>	<b>Parameter</b>	<b>Conditions</b>	<b>V<sub>CC</sub> (V)</b>	<b>V<sub>EE</sub> (V)</b>	<b>GPN</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>	<b>Unit</b>
		R <sub>L</sub> = 10 kΩ, T <sub>A</sub> = 25°C, <a href="#">Figure 15</a>	24	0			3	15	ns
			5	-5					
			12	-12					
t <sub>TRAN</sub>	Address-to-Signal OUT Transition Time Between Inputs	t <sub>r</sub> , t <sub>f</sub> = 20 ns, C <sub>L</sub> = 50 pF, R <sub>L</sub> = 10 kΩ, <a href="#">Figure 14</a>	5	0		All	130	200	ns
			10	0					
			24	0					
			5	-5					
			12	-12					
t <sub>ON(EN̄)</sub>	Enable-to-Signal OUT Channel Turning ON	t <sub>r</sub> , t <sub>f</sub> = 20 ns, C <sub>L</sub> = 50 pF, R <sub>L</sub> = 10 kΩ, <a href="#">Figure 12</a>	5	0		All	40	60	ns
			10	0					
			24	0					
			5	-5					
			12	-12					
t <sub>OFF(EN̄)</sub>	Enable-to-Signal OUT Channel Turning OFF	t <sub>r</sub> , t <sub>f</sub> = 20 ns, C <sub>L</sub> = 50 pF, R <sub>L</sub> = 10 kΩ, <a href="#">Figure 12</a>	5	0		All	103	126	ns
			10	0					
			24	0					
			5	-5					
			12	-12					
t <sub>B</sub>	Break-Before-Make Time	C <sub>L</sub> = 20 pF, R <sub>L</sub> = 10 kΩ, <a href="#">Figure 13</a>	5	0		All	1	78	ns
			10	0					
			24	0					
			5	-5					
			12	-12					

(1) Peak-to-Peak voltage symmetrical about  $(V_{CC} + V_{EE}) / 2$ .

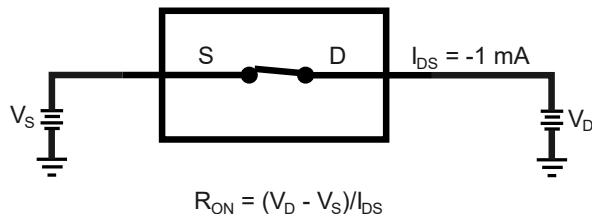
(2) Provided by design simulation.

## Typical Performance Characteristics

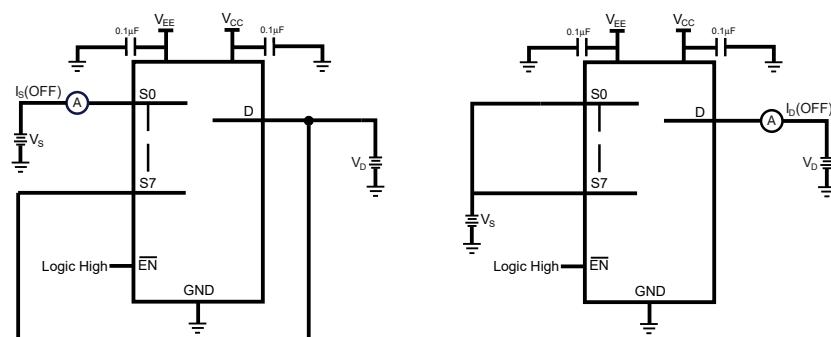


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**Figure 7. Bandwidth**

**Figure 8. Crosstalk**

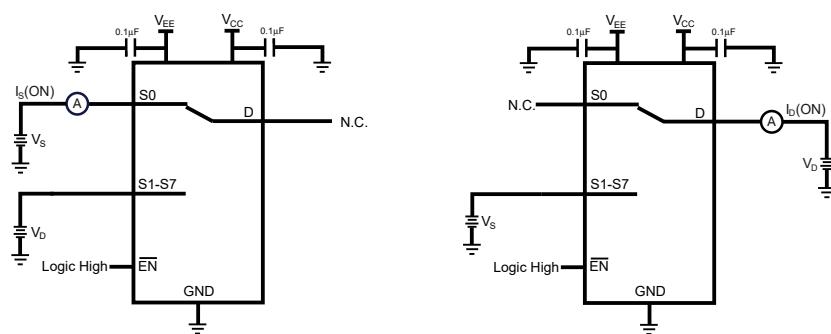
### Test Circuit and Waveforms



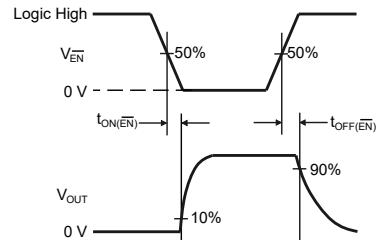
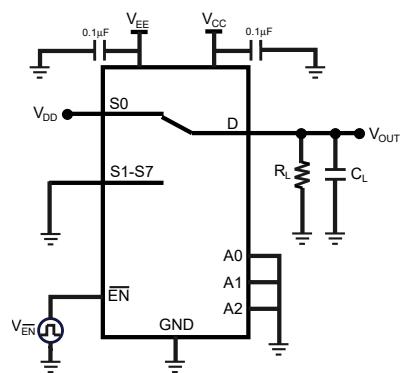
**Figure 9. On Resistance**



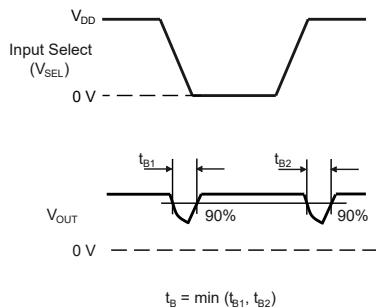
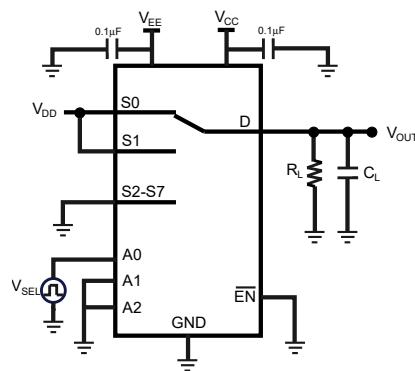
**Figure 10. Off Leakage**



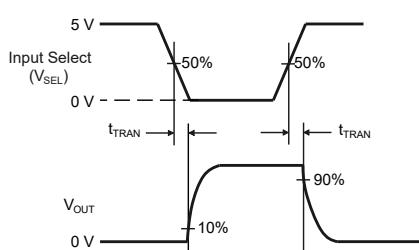
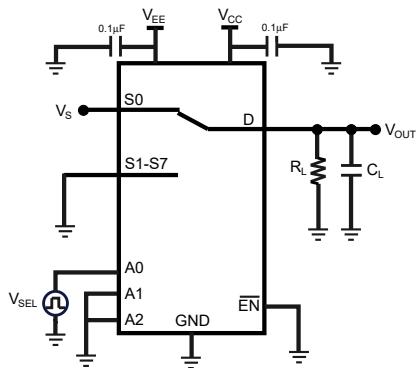
**Figure 11. On Leakage**

**24V General Purpose Analog Switch**


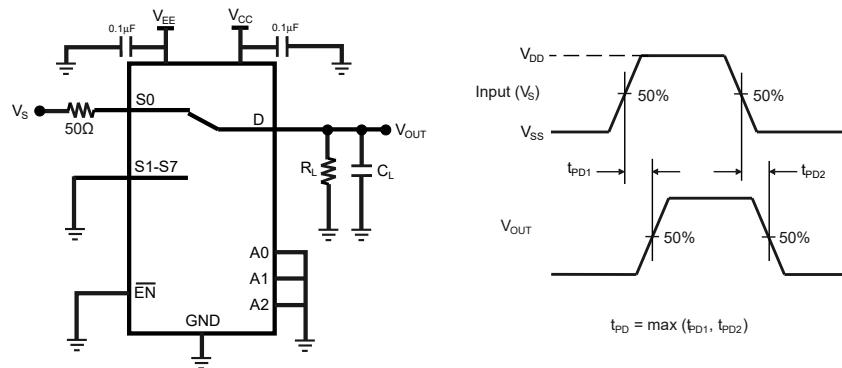
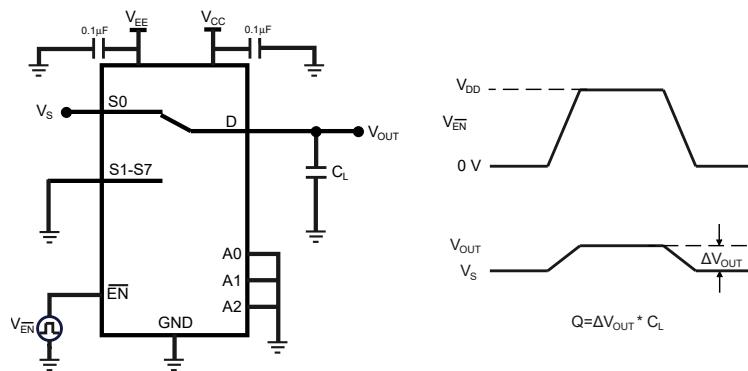
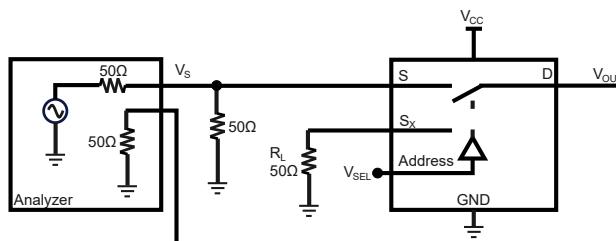
**Figure 12. Turn-On and Turn-Off Time**

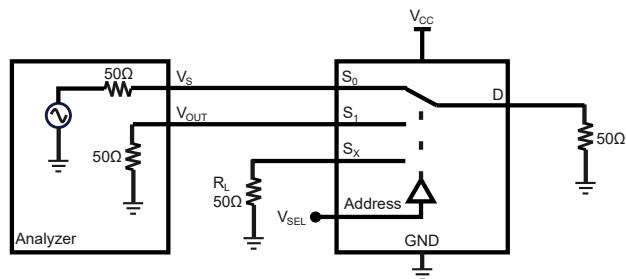
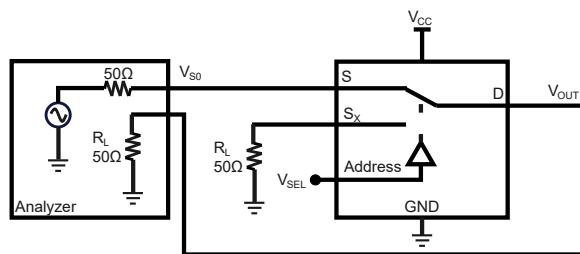


**Figure 13. Switch Break Time**



**Figure 14. Transition Time**

**24V General Purpose Analog Switch**

**Figure 15. Propagation Delay**

**Figure 16. Charge Injection**

**Figure 17. Off Isolation**

**24V General Purpose Analog Switch**

**Figure 18. Crosstalk**

**Figure 19. Bandwidth**

## Application and Implementation

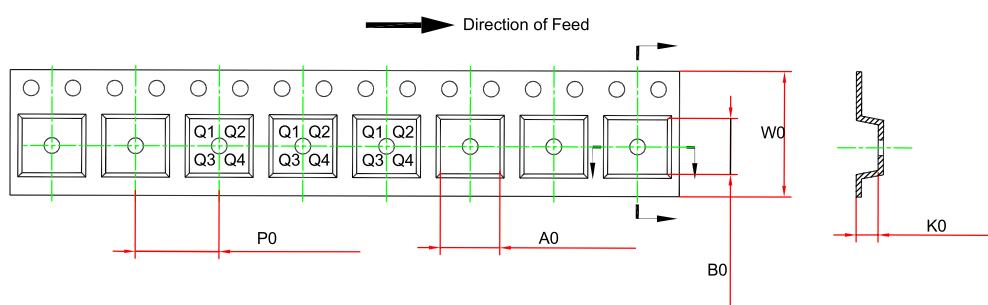
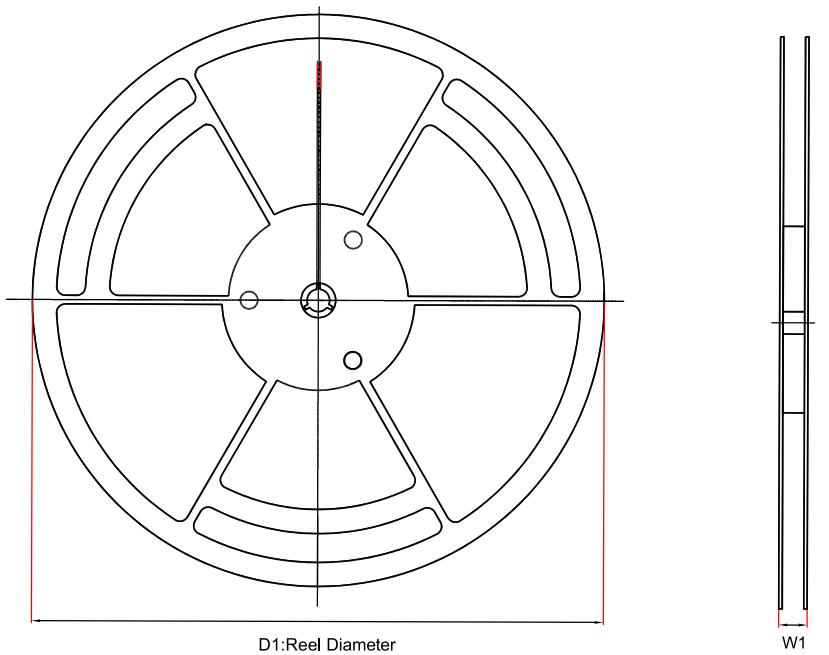
### Note

Information in the following application sections is not part of the 3PEAK's component specification and 3PEAK does not warrant its accuracy or completeness. 3PEAK's customers are responsible for determining suitability of components for their purposes. Customers should validate and test their design implementation to confirm system functionality.

## Application Information

A 0.1- $\mu$ F bypass capacitor on  $V_{CC}$  and GND is recommended to prevent power disturbance, another 0.1- $\mu$ F bypass capacitor on  $V_{EE}$  and GND is also recommended if the  $V_{EE}$  is not connected to GND.

## Tape and Reel Information



Order Number	Package	D1 (mm)	W1 (mm)	A0 (mm) <sup>(1)</sup>	B0 (mm) <sup>(1)</sup>	K0 (mm) <sup>(1)</sup>	P0 (mm)	W0 (mm)	Pin1 Quadrant
TPWH4051-SO3R	SOP16	330	21.6	6.6	10.4	2.1	8	16	Q1
TPWH4051-TS3R	TSSOP16	330	17.6	6.8	5.5	1.5	8	12	Q1
TPWH4052-SO3R	SOP16	330	21.6	6.6	10.4	2.1	8	16	Q1
TPWH4052-TS3R	TSSOP16	330	17.6	6.8	5.5	1.5	8	12	Q1
TPWH4053-SO3R	SOP16	330	21.6	6.6	10.4	2.1	8	16	Q1
TPWH4053-TS3R	TSSOP16	330	17.6	6.8	5.5	1.5	8	12	Q1

(1) The value is for reference only. Contact the 3PEAK factory for more information.

## Package Outline Dimensions

SOP16

Package Outline Dimensions		SO3(SOP-16-A)			
Symbol	Dimensions In Millimeters		Dimensions In Inches		
	MIN	MAX	MIN	MAX	
A	1.350	1.750	0.053	0.069	
A1	0.050	0.250	0.002	0.010	
A2	1.300	1.600	0.051	0.063	
b	0.330	0.510	0.013	0.020	
c	0.170	0.250	0.007	0.010	
D	9.800	10.000	0.386	0.394	
E	5.800	6.200	0.228	0.244	
E1	3.800	4.000	0.150	0.157	
e	1.270 BSC		0.050 BSC		
L	0.400	1.000	0.016	0.039	
θ	0	8°	0	8°	

**NOTES**

1. Do not include mold flash or protrusion.
2. This drawing is subject to change without notice.

**TSSOP16**

Package Outline Dimensions		TS3(TSSOP-16-A)			
Symbol	Dimensions In Millimeters		Dimensions In Inches		
	MIN	MAX	MIN	MAX	
A	0.900	1.200	0.035	0.047	
A1	0.050	0.150	0.002	0.006	
A2	0.800	1.050	0.031	0.041	
b	0.190	0.300	0.007	0.012	
c	0.090	0.200	0.004	0.008	
D	4.900	5.100	0.193	0.201	
E	6.200	6.600	0.244	0.260	
E1	4.300	4.500	0.169	0.177	
e	0.650 BSC		0.026 BSC		
L	0.450	0.750	0.018	0.030	
θ	0	8°	0	8°	

**NOTES**

1. Do not include mold flash or protrusion.
2. This drawing is subject to change without notice.

## 24V General Purpose Analog Switch

## Order Information

Order Number	Operating Temperature Range	Package	Marking Information	MSL	Transport Media, Quantity	Eco Plan
TPWH4051-SO3R	-40 to 125°C	SOP16	WH4051	MSL3	Tape and Reel,2500	Green
TPWH4051-TS3R	-40 to 125°C	TSSOP16	WH4051	MSL3	Tape and Reel,3000	Green
TPWH4052-SO3R (1)	-40 to 125°C	SOP16	WH4052	MSL3	Tape and Reel,2500	Green
TPWH4052-TS3R (1)	-40 to 125°C	TSSOP16	WH4052	MSL3	Tape and Reel,3000	Green
TPWH4053-SO3R (1)	-40 to 125°C	SOP16	WH4053	MSL3	Tape and Reel,2500	Green
TPWH4053-TS3R (1)	-40 to 125°C	TSSOP16	WH4053	MSL3	Tape and Reel,3000	Green

(1) For future products, contact the 3PEAK factory for more information and samples.

**Green:** 3PEAK defines "Green" to mean RoHS compatible and free of halogen substances.

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TPWH405x

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24V General Purpose Analog Switch

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