

TRIPLE LOAD SWITCH (Si1869DH) – BM008

OPEN SOURCE HARDWARE MODULE



hardware made easy

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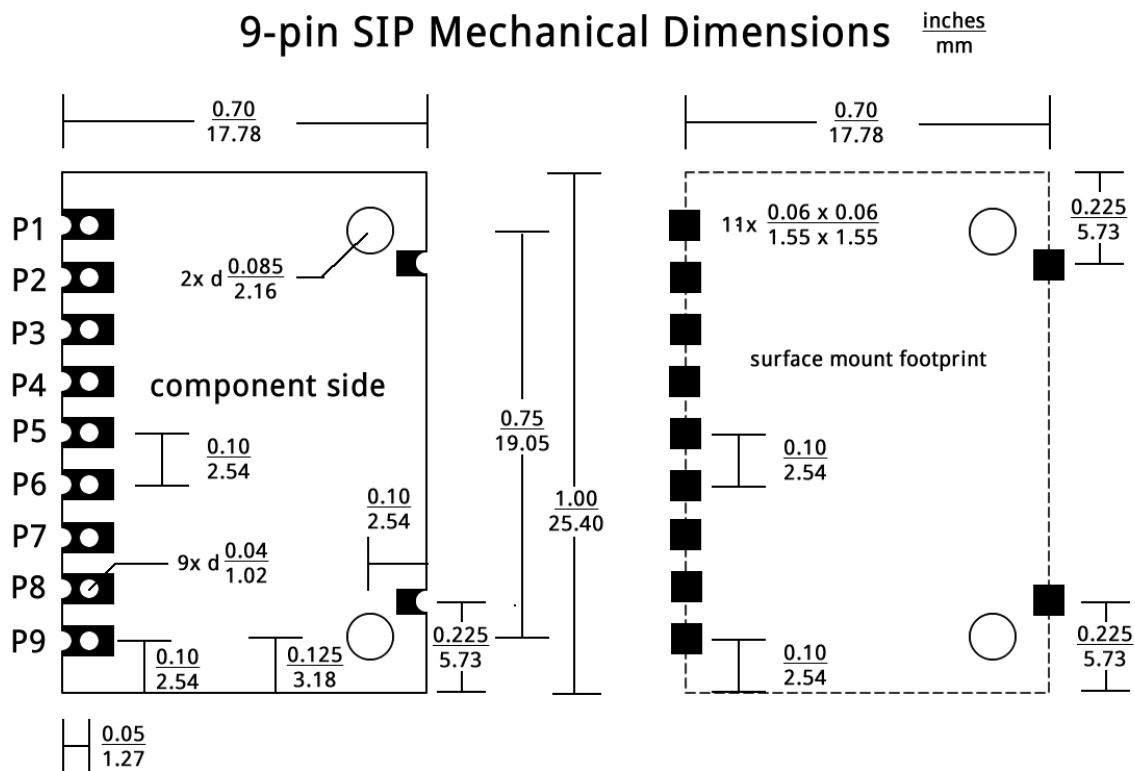
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Product Description:

This breakout board carries three Vishay SI1869DH high-side load switches. Individual logic inputs allow you to switch power to three different loads. Use it as a power distribution bus. Or use it to control fans, motors, heaters or other DC loads.

- 1.8V-20V voltage switching
- 1.5V to 8V control input voltage
- Up to 1A per switch (package power dissipation should not be exceeded)
- Logic level control and LED indicator for each switch
- Two separate voltage busses to switch separate power supplies

Dimensions:



Specifications:

Characteristic	Min	Typ	Max	Unit	Notes
Operating voltage	1.8		20	V	VIN
Operating current			1.2	A	higher CONxx pin voltages result in lower Rdson and lower power dissipation (higher currents)
Switch on resistance	0.165		0.303	Ω	MOSFET on resistance (Rdson)
Control pin ON voltage	1.5		8	V	
Maximum power dissipation per switch		1		W	
Operating temperature	-55		+150	$^{\circ}\text{C}$	

Pin Functions and Notes

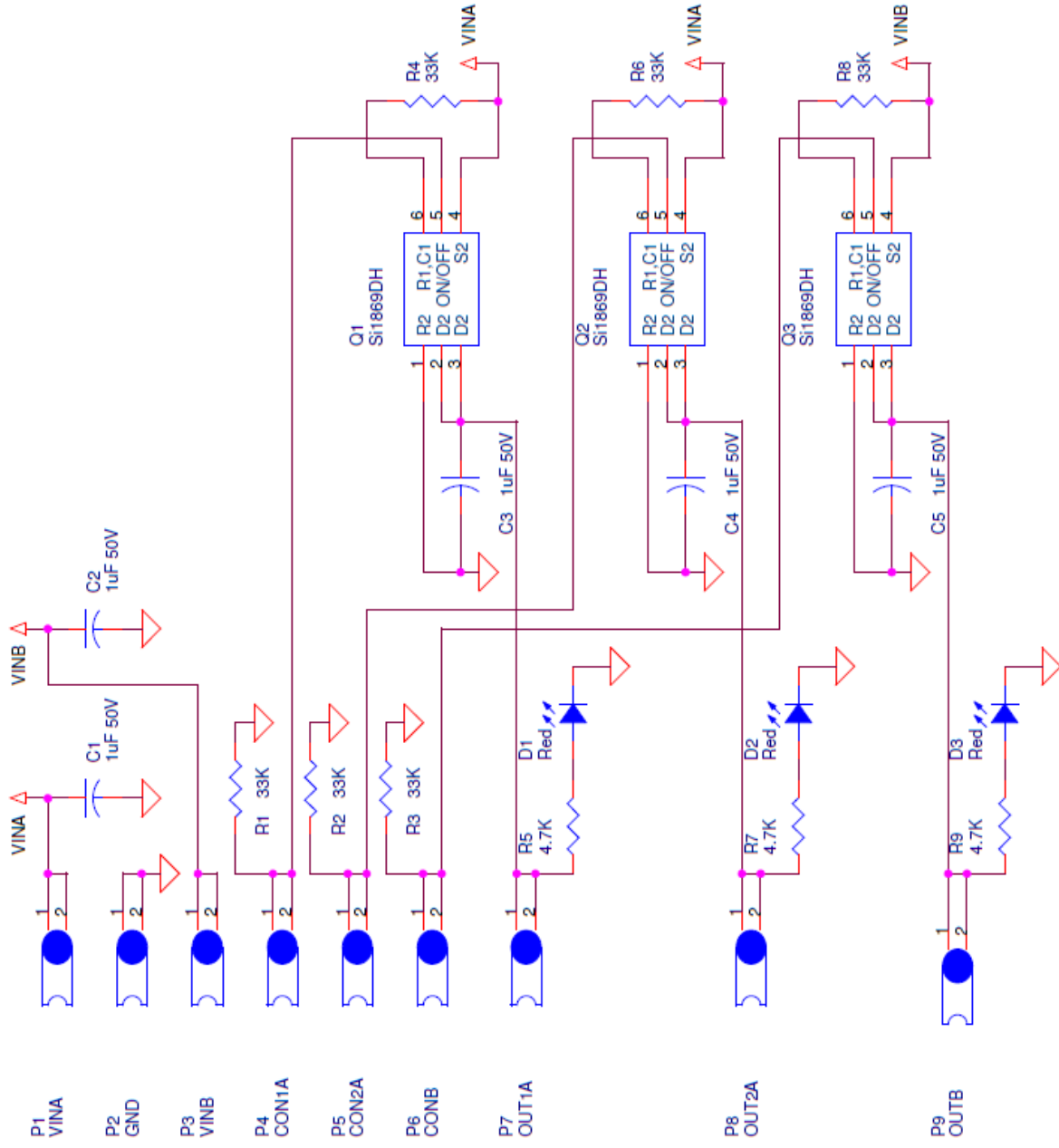
#	Name	Maximum Voltage	Notes
1	VINA	20V	Power input: power input for CON1A and CON2A switches
2	GND	0V	Ground return for the power supply
3	VINB	20V	Power input: power input for CONB switch
4	CON1A	8V	Logic input: logic high connects VINA to OUT1A
5	CON2A	8V	Logic input: logic high connects VINA to OUT2A
6	CONB	8V	Logic input: logic high connects VINB to OUTB
7	OUT1A	NA	Power output: switch output controlled by CON1A, connects to VINA when enabled
8	OUT2A	NA	Power output: switch output controlled by CON2A, connects to VINA when enabled
9	OUTB	NA	Power output: switch output controlled by CONB, connects to VINB when enabled

User Notes/Tips

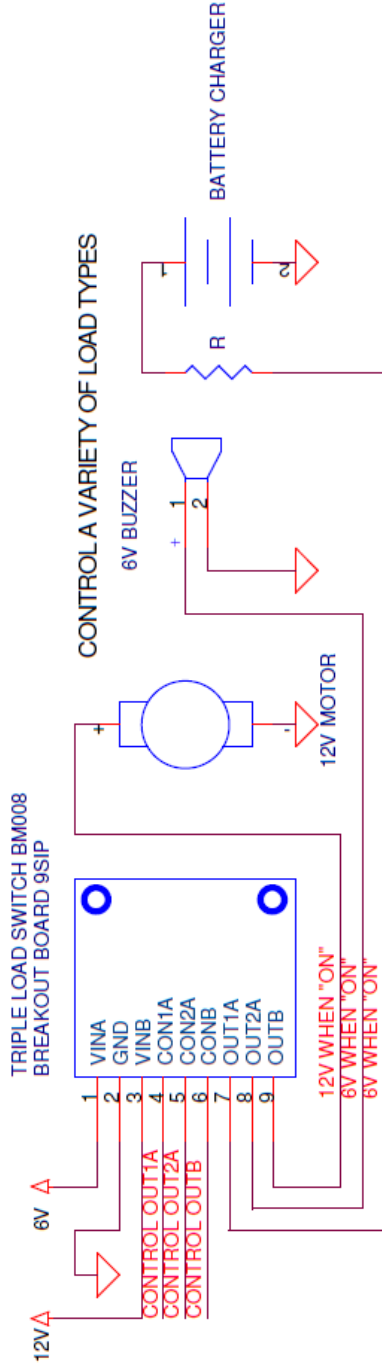
- For additional information on the SI1869DH visit Vishay's web site and review the datasheet.
- Visit www.solutions-cubed.com for application notes related to this module.

TRIPLE LOAD SWITCH (Si1869DH) – BM008
User Datasheet

November 2012

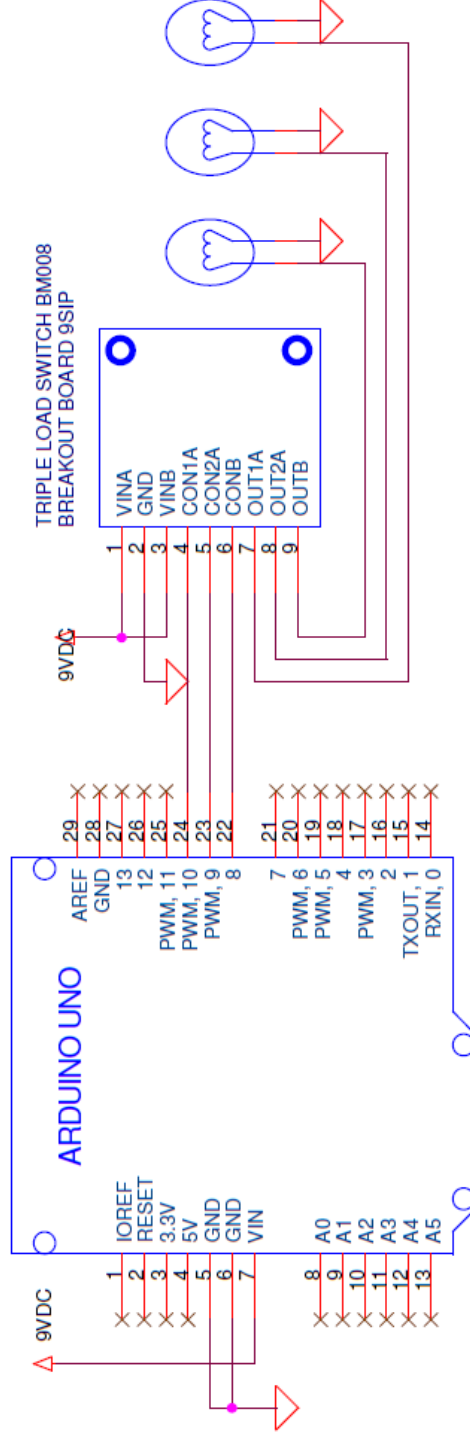


DUAL VOLTAGE TRIPLE LOAD SWITCH



ARDUINO CONNECTIONS

ARDUINO UNO3



LAMP CONTROLLER

TRIPLE LOAD SWITCH BM008
BREAKOUT BOARD 9SIP

