

DESCRIPTION

The PT5126A is 1 Full-On Drive H-Bridge channel with two different packages. The driver features wide range operating from 2V to 24V and low power consumption by fast switching speed.

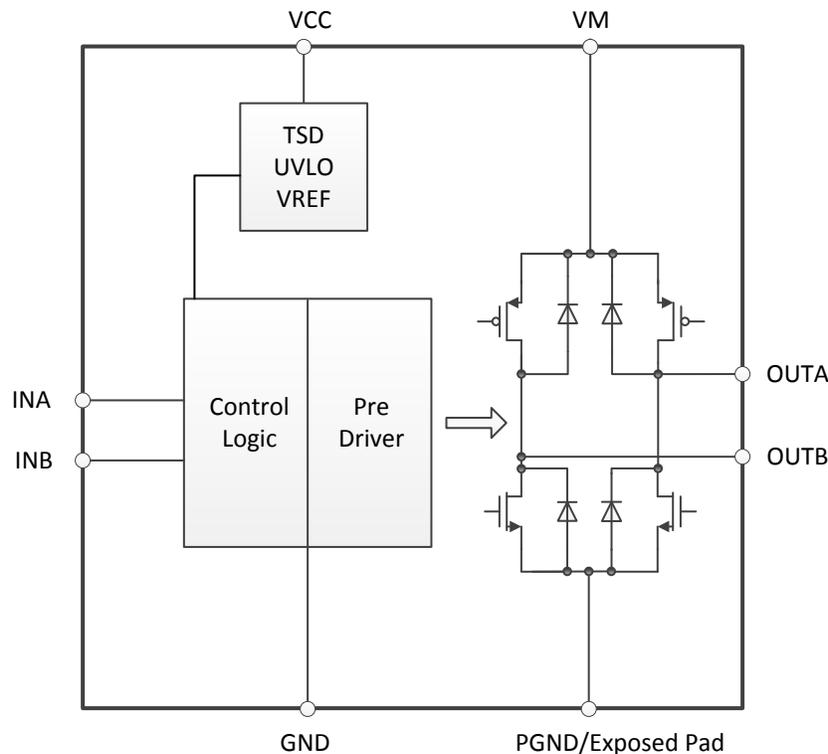
APPLICATIONS

- Toys
- Lens for DSLR
- Auto icemaker or dumper drive for refrigerator
- HV bi-direction DC Motor
- Intelligent electronic lock

FEATURES

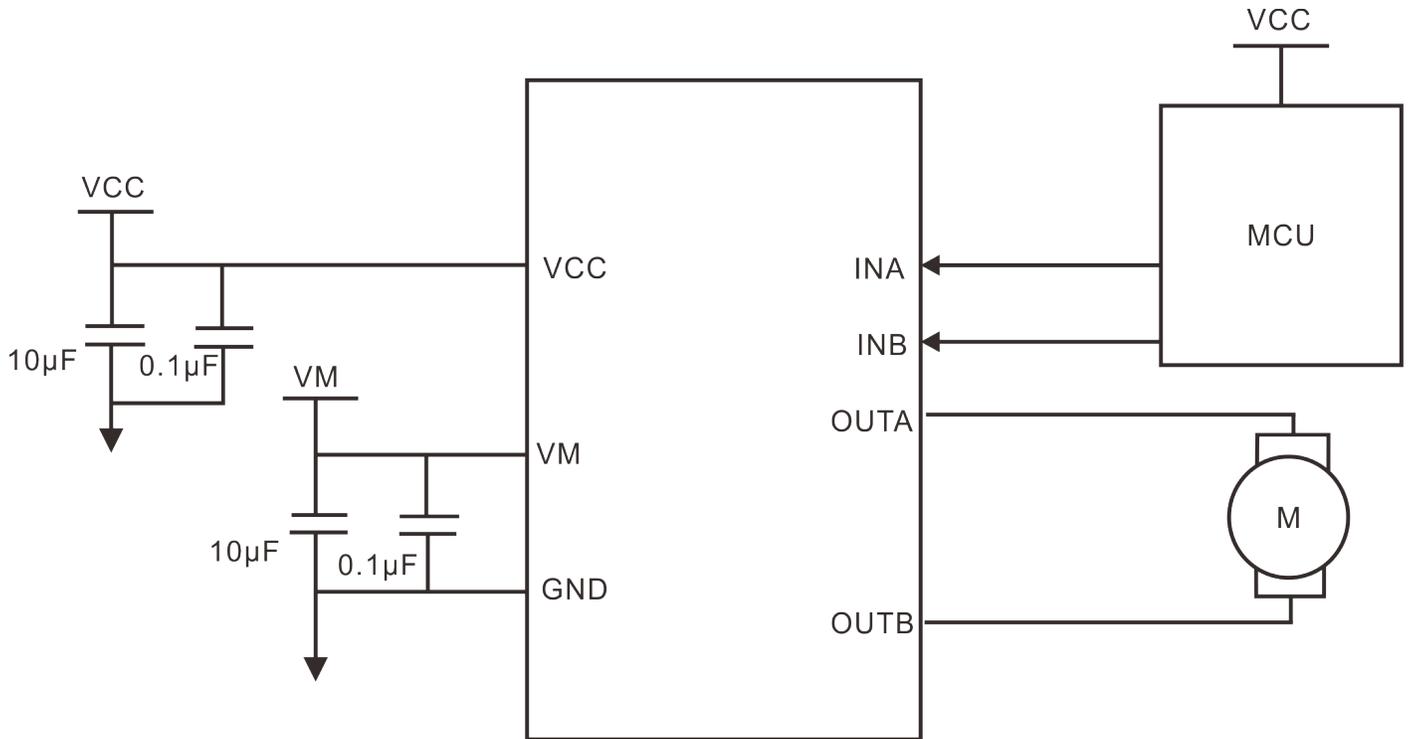
- It is low consumption by BCD process adoption
- Two different small packages: HSOP8, SOP8
- Wide power-supply voltage range:
 - Control (VCC): 2.7V ~ 5.5V
 - Motor (VM): 2.0V ~ 24V
- High DC output current: Max.=2.8A
- Ultra low RDSON(TOP+BOT):
 - 0.51ΩTYP@25°C, 1A for HSOP8;
 - 0.64ΩTYP@25°C, 1A for SOP8
- Low current consumption when power-down: <math><0.05\mu\text{A}</math> @25°C
- PWM control, Max. input frequency: 200KHz.
- Operating temperature range: -40 ~ +85°C
- Charge-pump less
- Shoot-through current protection
- Built-in protection circuits
 - Under voltage lock out
- - Thermal shut down

BLOCK DIAGRAM



APPLICATION CIRCUITS

SOP8/HSOP8

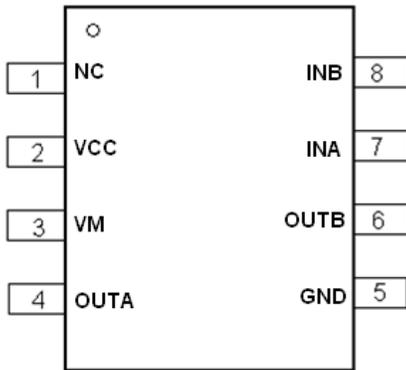


ORDER INFORMATION

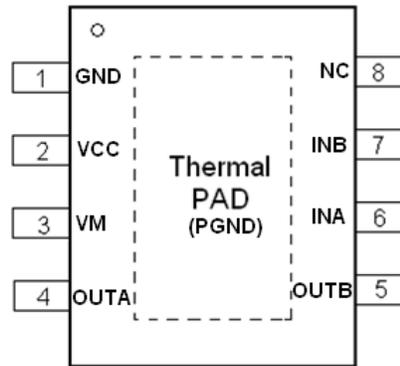
Valid Part Number	Package Type	Top Code
PT5126A-S	8 pins, SOP	PT5126A-S
PT5126A-HS	8 pins, HSOP	PT5126A-HS

PIN CONFIGURATION

SOP8



HSOP8



PIN DESCRIPTION

Pin Name	I/O	Description	Pin No.	
			SOP8	HSOP8
NC	-	NC pin	1	8
GND	GND	Ground	5	1
VCC	Power	Power supply for logic circuit	2	2
VM	Power	Power supply for driver	3	3
OUTA	O	H-Bridge output terminal A of the driver	4	4
OUTB	O	H-Bridge output terminal B of the driver	6	5
INA	I	Control input	7	6
INB	I	Control input	8	7
PGND	GND	Power MOS GND	-	Thermal PAD

IMPORTANT NOTICE

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PTC cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a PTC product. No circuit patent licenses are implied.

Princeton Technology Corp.
2F, 233-1, Baociao Road,
Sindian Dist., New Taipei City 23145, Taiwan
Tel: 886-2-66296288
Fax: 886-2-29174598
<http://www.princeton.com.tw>