



DESCRIPTION

The PT2463 is a motor driver designed for 2 phase stepping motor, it implement PWM to regulate output current. The driver stage is consists by dual MOSFET H-bridge. Fabricated by advanced BCD process to improve performance and reduce power losses. The driver support up to 40V supply voltage and maximum driving current up to 1.8A.

The on-chip voltage regulator allows only powered from a single power supply, VM, it highly reduce external components and saving the PCB size.

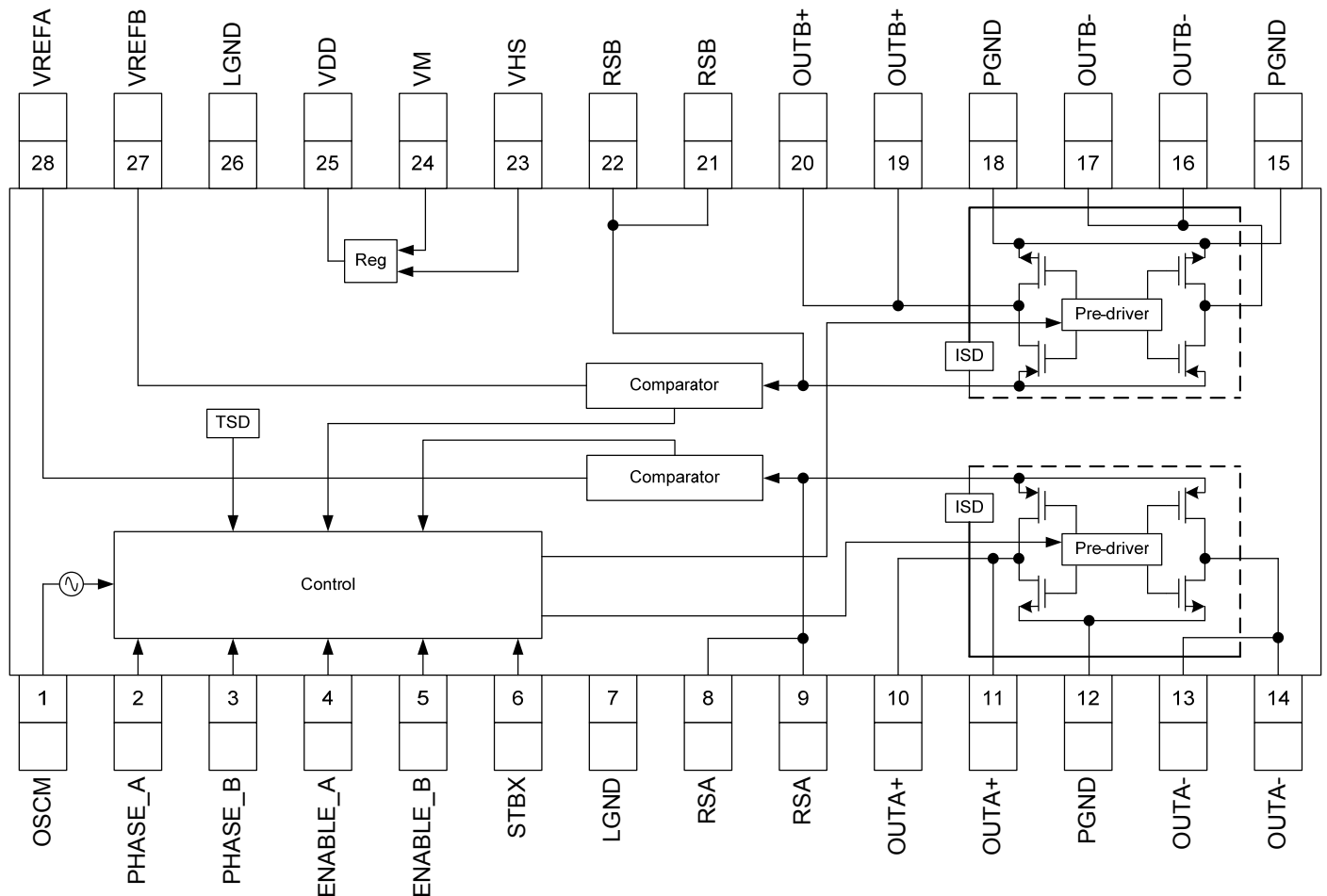
FEATURES

- Low $R_{DS(on)}$ BCD process
- PWM constant-current drive
- Provides phase inputs to allow full step and half step excitation
- High voltage and current: 40V/1.8A
- Thermal shutdown (TSD), over-current shutdown (ISD), power-on reset (POR) and under voltage lock out (UVLO) helps to secure operates status.
- HTSSOP 28-Pin package with thermal pad

APPLICATIONS

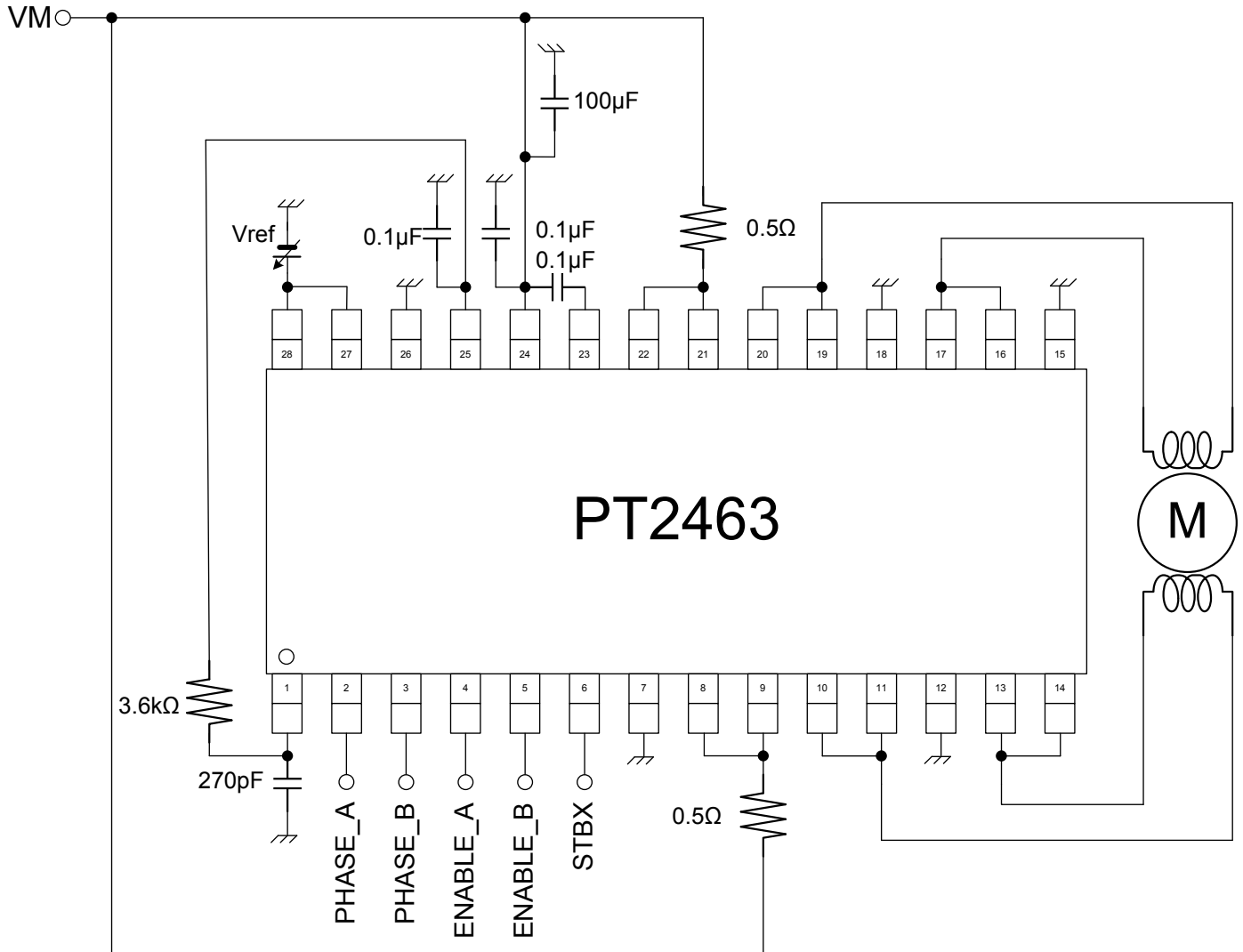
- Home appliance
- Amusement machine
- Office automation machine

BLOCK DIAGRAM





APPLICATION CIRCUIT DIAGRAM

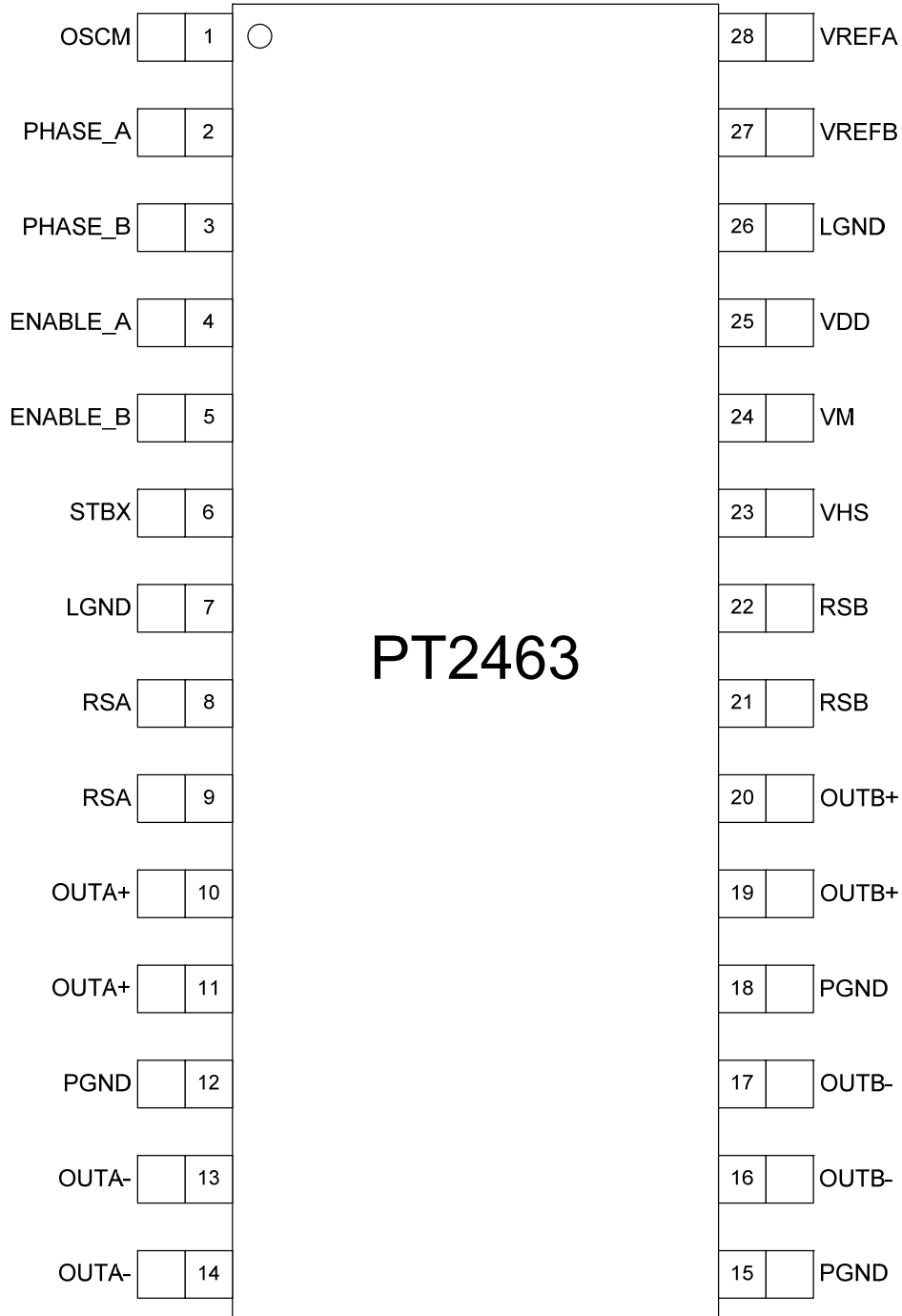




ORDER INFORMATION

Part Number	Package Type	Top Code
PT2463-HT	28-Pin, HTSSOP, 173MIL	PT2463-HT

PIN CONFIGURATION



PIN DESCRIPTION

Pin Name	I/O	Description	Pin No.
OSCM	I/O	External pin for system clock RC oscillator	1
PHASE_A	I	Phase-A output current direction select	2
PHASE_B	I	Phase-B output current direction select	3
ENABLE_A	I	Phase-A enable, high=driver on, GND=driver off.	4
ENABLE_B	I	Phase-B enable, high=driver on, GND=driver off.	5
STBX	I	Power down mode; connect to GND will disable OSCM and output driver.	6
LGND	-	GND for logic circuit	7, 26
RSA	I	External current sense resistor A; connect to high side of H-bridge, also the negative input of current sense circuit.	8, 9
OUTA+	O	H-bridge driver A positive output	10, 11
PGND	-	H-bridge driver A GND	12
OUTA-	O	H-bridge driver A negative output	13, 14
PGND	-	H-bridge driver B GND	15
OUTB-	O	H-bridge driver B negative output	16, 17
PGND	-	Power GND	18
OUTB+	O	H-bridge driver B positive output	19, 20
RSB	I	External current sense resistor B; connect to high side of H-bridge, also the negative input of current sense circuit.	21, 22
VHS	O	Smoothing filter for built-in regulator for high side driver	23
VM	-	Main supply for the motor, also the positive input of current sense circuit.	24
VDD	I	Smoothing filter for built-in regulator for logic	25
VREFB	I	Apply a DC potential to determinate output peak current of the PHASE B driver	27
VREFA	I	Apply a DC potential to determinate output peak current of the PHASE A driver	28

IMPORTANT NOTICE

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