

DESCRIPTION

The PT2465 is a PWM constant-current type stepping motor driver designed for sinusoidal-input micro-step control of stepping motors.

The PT2465 provides several excitation modes for bipolar stepping motor, such as 2-phase, 1-2-phase, W1-2-phase and 2W1-2 phase. The PT2465 is capable of forward and reverse driving of a 2-phase bipolar stepping motor using only a clock signal.

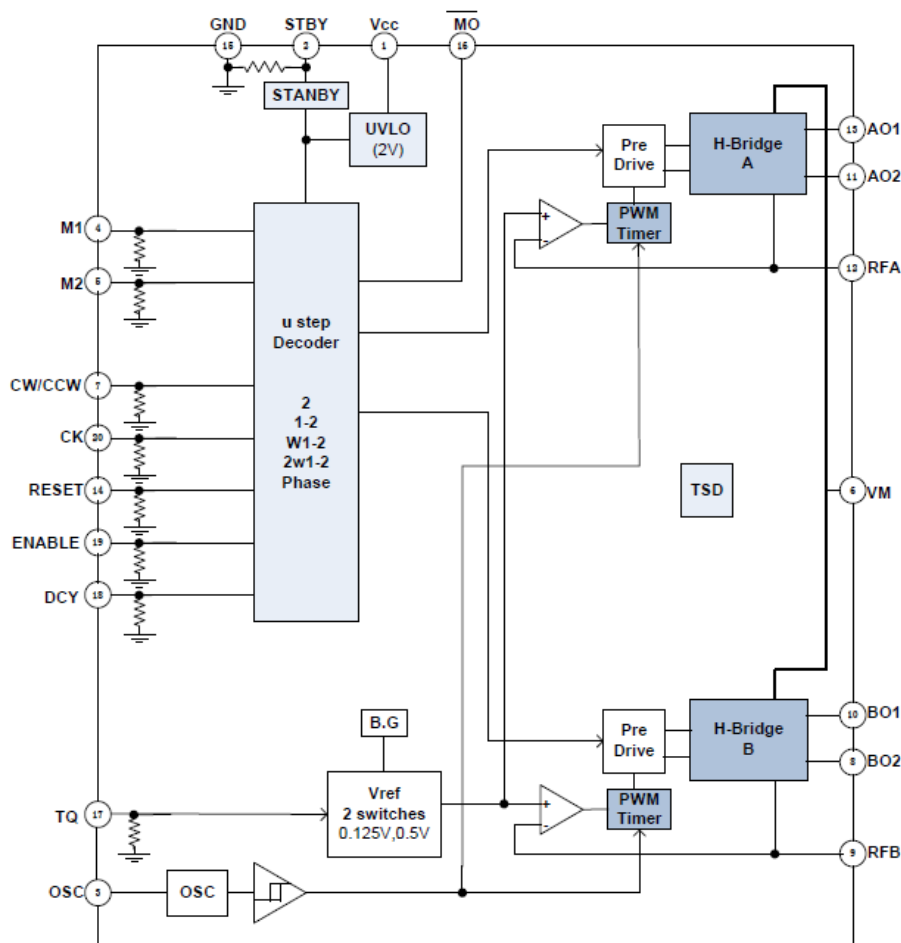
APPLICATIONS

- Digital camera system
- Interchangeable Lens

FEATURES

- Range of motor power supply voltage:
 - Control (VCC): 2.5V to 5.5V
 - Motor (VM) : 2.5V to 16V
- Output current: $I_{OUT} \leq 0.8 \text{ A}$ (max)
- Output ON-resistance: $R_{on} = 1.5\Omega$ (upper and lower total @ $V_M = 7 \text{ V}$)
- Decoder that enables microstep control with the clock signal
- Selectable phase excitation modes (2, 1-2, W1-2 and 2W1-2)
- Internal pull-down resistors on inputs: 200 K Ω (typ.)
- Output monitor pin (\overline{MO})
- Thermal shutdown (TSD) protection
- Under voltage lock out (UVLO) protection
- Small surface-mount package (TSSOP-20 173mil, 0.65 mm lead pitch)

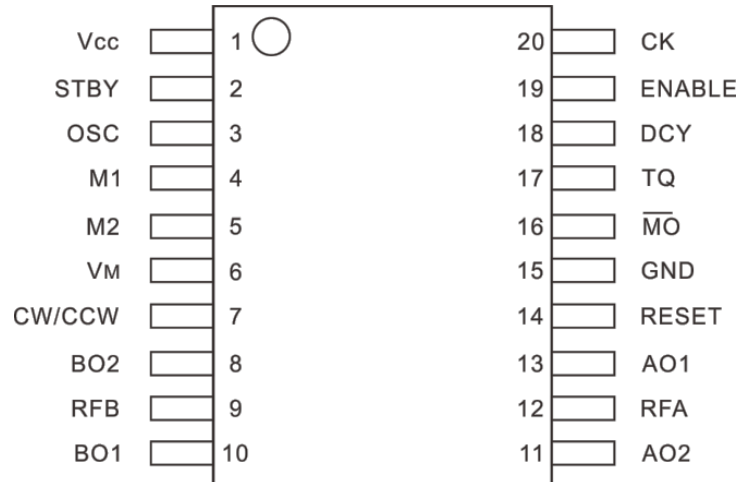
BLOCK DIAGRAM



ORDER INFORMATION

Part Number	Package Type	Top Code
PT2465-TX	20-PIN, TSSOP, 173MIL	PT2465-TX

PIN CONFIGURATION



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.

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