DC Brushless Motor Driver IC

PT-30DFx

Single- Phase Full-Wave Linear Drive

The PT30DFx is single-phase full-wave driver IC. This driver IC can be used for single coil DC brushless motor. This driver IC accepts the hall IC's output signal and drives the motor coil directly without any other extra transistors. This IC can be operated from 2V to 18V supply voltage and driving current can be up to 400mA.

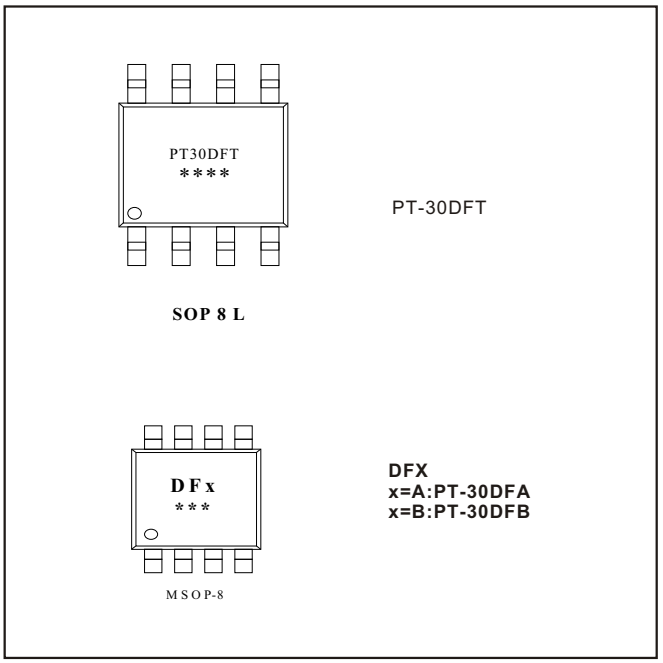
APPLICATIONS

- Single coils DC brushless motor.
- DC 2.0V~18V.
- **PT-30DFA FG Output**
- **PT-30DFT/B RD Output**

FEATURES

- Single-phase full-wave linear driver
- Switch noise elimination
- Motor lock protection and automatic restart
- Connectable direct to Hall element
- Built-in hysteresis comparator
- Frequency Generation output(PT-30DFA)
- Rotate Detection output (PT-30DFT / B)
- Low power consumption and high driving efficiency

PACKAGE & MARKING: SOP8 / MSOP8



INPUT DEVICES

- HALL IC or HALL ELEMENT

SPECIFICATIONS

Absolute Maximum Ratings (Ta = 25C)

Parameter	Symbol	Conditions	Ratings	Units
Maximum supply voltage	V_{DD}^{max}		18	V
Allowable power dissipation	Pd		450*	mW
Operating temperature	Ta		-30 ~ +100	°C
Storage temperature	Ts		-55 ~ +150	°C
Output Continuous current	I_{0ut}	Max.	350	mA
Output Peak current	I_{0ut}	T≤ 20us	450	mA

*On 50mm x 50mm x 1.6mm glass epoxy board

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