



# 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.

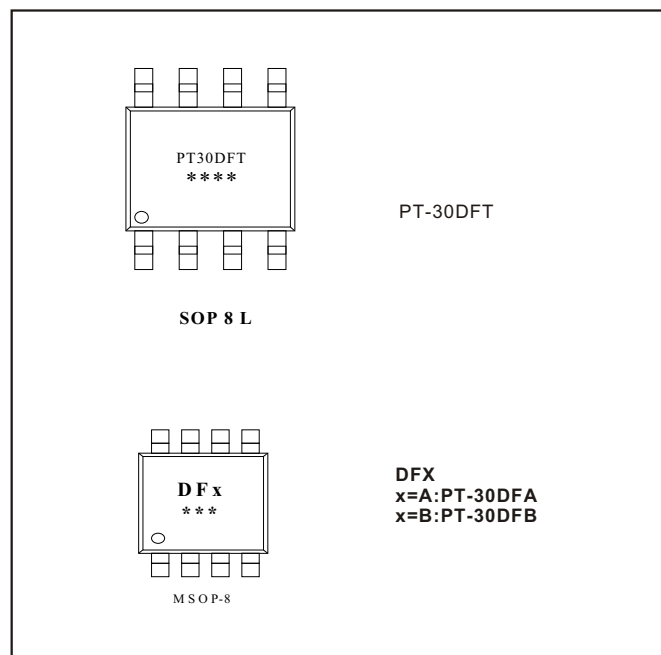
### APPLICATIONS

- 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	$P_d$		450*	mW
Operating temperature	$T_a$		-30 ~ +100	°C
Storage temperature	$T_s$		-55 ~ +150	°C
Output Continuous current	$I_{out}$	Max.	350	mA
Output Peak current	$I_{out}$	$T \leq 20\mu s$	450	mA

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