



## DC Brushless Motor Driver IC

# PL392P-FG

## 12V Single coil Motor Pre-Driver IC with PWM control

### Applications

- Single coil DC brushless motor

### Features

- Built-in hall sensor
- Single phase full wave pre-driver
- Motor locked protection and automatic restart
- Speed controllable by DC/PWM
- FG output
- Current limit
- Low speed setting
- Quick start
- Soft start
- Built-in hysteresis comparator
- Built-in zener diode
- High balance and low thermal drift magnetic sensing
- Low power consumption and high driving efficiency
- RoHS compliance

### Ordering information

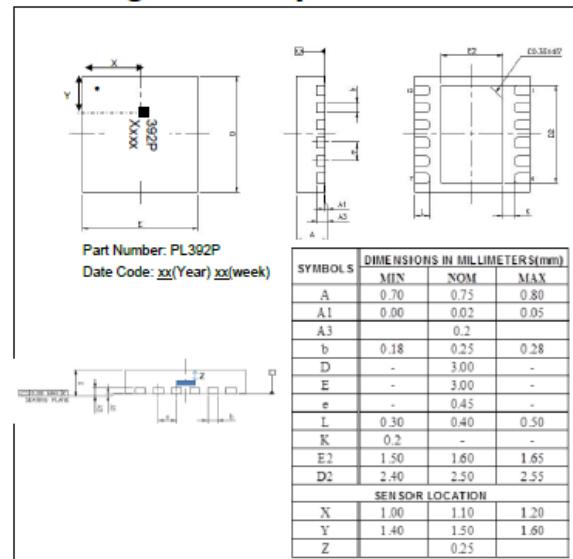
- PL392PFGGHF

### Specifications

#### Absolute Maximum Ratings ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax		18	V
Allowable power dissipation	Pd		1860 <sup>*1</sup>	mW
Operating temperature	Ta		-40~+105	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	Iomax		50	mA
Max. FG output voltage	V <sub>FGMAX</sub>		18	V
Max. FG output current	I <sub>FGMAX</sub>		10	mA
VREF driving capability	I <sub>VREF</sub>		5	mA
Max. input voltage(PWM, CS, VL, SS, VSEN)	V <sub>INMAX</sub>		6	V
Junction Temperature	T <sub>j</sub>		150	°C

### Package: DFN-12pin



<sup>\*1</sup>: Reduced by 14.3mW for each increase in Ta of 1°C over 25°C When mounted on 50mm x 50mm x 1.6mm glass epoxy board