



DC Brushless Motor Driver IC

PL392P-RD

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
- RD 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
- Hi-Voltage protection
- RoHS compliance

Ordering information

Specifications

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax		18	V
Allowable power dissipation	Pd		1860 ^{*1}	mW
Operating temperature	Ta		-40~+125	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	Iomax		50	mA
Max. RD output voltage	V _{RD} MAX		18	V
Max. RD output current	I _{RD} MAX		10	mA
VREF driving capability	I _{VREF}		5	mA
Max. input voltage(PWM, CS, VL, SS, VSEN)	V _{IN} MAX		6	V
Junction Temperature	Tj		150	°C

^{*1}: 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

Package: DFN-12pin

