



DC Brushless Motor Driver IC

PL3929-A 12V Single coil Motor Driver IC with PWM control

Applications

- Single coil DC brushless motor

Features

- Built-in hall sensor
- Single phase full wave driver
- Soft switching output driver
- Motor locked protection and automatic restart
- Speed controllable by DC/PWM
- FG output
- Current limit
- Low speed setting
- Quick 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
- Moisture sensitivity level 3
- AEC Q100 qualified

Specifications

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax		18	V
Allowable power dissipation	Pd		833 ^{*1}	mW
Operating temperature	Ta		-40~+105	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	Iomax	0.5sec	1200 ^{*2}	mA
Max. FG output voltage	V _{FGMAX}		18	V
Max. FG output current	I _{FGMAX}		10	mA
VREF driving capability	I _{VREF}		5	mA
Junction Temperature	Tj		150	°C

*1: Reduced by 6.67mW for each increase in Ta of 1°C over 25°C When mounted on 50mm x 50mm x 1.6mm glass epoxy board

*2: Should not exceed Pd

Package: SOP-10pin

