



PL392F

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 (open drain)
- Current limit
- 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
- Jump start protection
- AEC Q100 qualified
- RoHS 2.0 compliance
- DFN10 with heat sink for better thermal performance

Package:

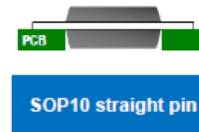
SOP-10F



DFN10



SOP-10



Specifications

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax	10 Sec	20	V
Allowable power dissipation	Pd ^{*1}	SOP-10/SOP-10F	833	mW
		DFN10	1860	
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	VFGMAX		18	V
Max. FG output current	IFGMAX		10	mA
VREF driving capability	IVREF		5	mA
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

*2: Should not exceed Pd