



DC Brushless Motor Driver IC

PL393W-A

Single-phase Motor Driver with PWM speed control

Applications

- Automotive cooling fan

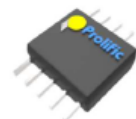
Features

- Built-in high sensitivity hall sensor
- Single phase full wave driver
- Linear Soft switching output driver
- Speed controllable by Digital PWM or DC voltage two modes identified automatically
- Quick start
- FG/RD open drain output
- Protections
 - Motor locked protection and automatic restart
 - Over thermal protection
 - Current limit protection
 - Jump start overvoltage protection
- Built-in Zener diode
- High balance and low thermal drift magnetic sensing
- AEC Q100 qualified
- RoHS 2.0 compliance

Package:

SOP-10F (4.9x3.9x1.4mm)

Straight pin



DFN-10 (3x3x0.75mm)



Specifications

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax		32	V
Allowable power dissipation	Pd	SOP-10F	833	mW
		DFN-10	1860	mW
Operating temperature range	TJ		-40~+150	°C
Storage temperature	Ts		-50~+150	°C
Max. O1/O2 output voltage	VOMAX		32	V
Max. output current	IOMAX	0.5sec	1200*1	mA
Max. FG/RD output voltage	VFG/RDMAX		32	V
Max. FG/RD output current	IFG/RDMAX		10	mA
Max. input voltage (PWM,VSEN)	VINMAX		6	V
VREF driving capability	IvREF		5	mA

*1: Should not exceed Pd