



DC Brushless Motor Driver IC

PT-308Fx

Double Coil Motor Driver IC

Overview

This universal DC brushless motor driver IC is designed for various DC motor's applications. This driver IC can be used for double coil DC brushless motor. This driver IC accept the hall IC's output signal and drives the motor coil directly without any other extra transistors.

Applications

- Double coils DC brushless motor.
- 4V to 18V operation

Features

- Motor lock protection and automatic restart
- Low power consumption and high driving efficiency
- PWM speed control
- RD output
- FG output

- PT-308F-A: Analogy PWM motor driver
- PT-308F-B: Linear PWM motor predriver
- PT-308F-C: Analogy PWM motor driver, no pull-up diode
- PT-308F-D: Digital PWM motor driver

Input Devices

- Hall IC

Specifications

Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Conditions	Ratings	Units
Maximum supply voltage	V _{DD} ^{max}		18	V
Allowable power dissipation	P _d		350*	mW
Operating temperature	T _a		-30 ~ +125	°C
Storage temperature	T _s		-55 ~ +150	°C
Output Continuous current	I _{out}	Max.	400	mA
Output Peak current	I _{out}	T _s ≤ 20us	650	mA

* On 50mm x 50mm x 1.6mm glass epoxy board

Package: SOT-26

SYMBOLS	DIMENSIONS IN MILLIMETERS(mm)		
	MIN	NOM	MAX
A	1.47	1.60	1.73
A1	0.10	-	0.30
A2	-	1.45	-
b	0.33	0.41	0.51
C	0.19	0.20	0.25
D	4.80	4.85	4.95
E	3.81	3.91	3.99
H	5.79	5.99	6.20
e	-	1.27	-
L	0.38	0.71	1.27

