



PT3926

Single coil Hall Driver IC

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
- FG output
- Built-in hysteresis comparator
- Built-in zener diode
- High balance and low thermal drift magnetic sensing
- Low power consumption and high driving efficiency
- Rohs 2.0 compliance
- Thermal protection

Specifications

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax		17	V
Maximum FG output voltage	V _{FGmax}		17	V
Maximum FG output current	I _{FGmax}		25	mA
Allowable power dissipation	Pd		500 ^{*1}	mW
Operating temperature	Ta	Not exceeding Tj	-40~+105	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	Peak		1000	mA
	Hold	0.5sec	800 ^{*2}	mA
Junction Temperature	Tj		165	°C
Thermal resistance	Raj		250	°C/W
Back Electromotive Force	B-EMF	Output high voltage minus VDD	0.65	V

*1: Reduced by 3.57mW 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: TSOT25F-5pin

