



DC Brushless Motor Hall Driver IC

# PT3935/PT3936

## 24V Single coil Hall Driver IC with RD/FG output

Package: TO-92-5pin

### Applications

- Single coil DC brushless motor
- Support pre-driver application

### Features

- Built-in hall sensor
- Single phase full wave driver
- Soft switching output driver
- Motor locked protection and automatic restart
- RD/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
- Thermal protection

### Specifications

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax	10u sec	42	V
Allowable power dissipation	Pd		568 <sup>*1</sup>	mW
Operating temperature	Ta		-40~+85	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	IO MAX	0.5sec	800 <sup>*2</sup>	mA
RD/FG output current	IRD/FG MAX		20	mA
RD/FG output voltage	V RD/FG MAX		32	V
Maximum Junction temperature	Tjmax		150	°C

\*1: Reduced by 4.54mW 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

