



## DC Brushless Motor Hall Driver IC

# PT3937 24V Single coil Hall Driver IC with RD output

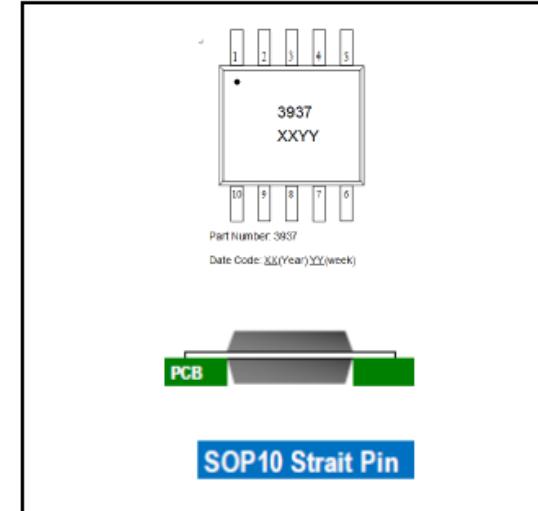
### Applications

- 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 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

### Package: SOP-10F



### Specifications

#### Absolute Maximum Ratings ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax	10u sec	36	V
Allowable power dissipation	Pd		833 <sup>*1</sup>	mW
Operating temperature	Ta		-40~+105	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	I <sub>OMAX</sub>	0.5sec	1200 <sup>*2</sup>	mA
RD output current	I <sub>RDMAX</sub>		20	mA
RD output voltage	V <sub>RDMAX</sub>		32	V
Maximum Junction temperature	Tjmax		150	°C

<sup>\*1</sup>: 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

<sup>\*2</sup>: Should not exceed Pd