



DC Brushless Motor Hall Driver IC

PT3935/PT3936

24V Single coil Hall Driver IC with RD/FG 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
- FG/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
- AEC Q100 qualified
- MSL level 3
- RoHS 2.0

Specifications

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax	10u sec	34.5	V
Allowable power dissipation	Pd		1860 ^{*1}	mW
Operating temperature	Ta		-40~+125	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	I _{OMAX}	0.5sec	800 ^{*2}	mA
FG/RD output current	I _{FGMAX}		20	mA
FG/RD output voltage	V _{FGMAX}		32	V
Maximum Junction temperature	T _{jmax}		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

Package: DFN10

