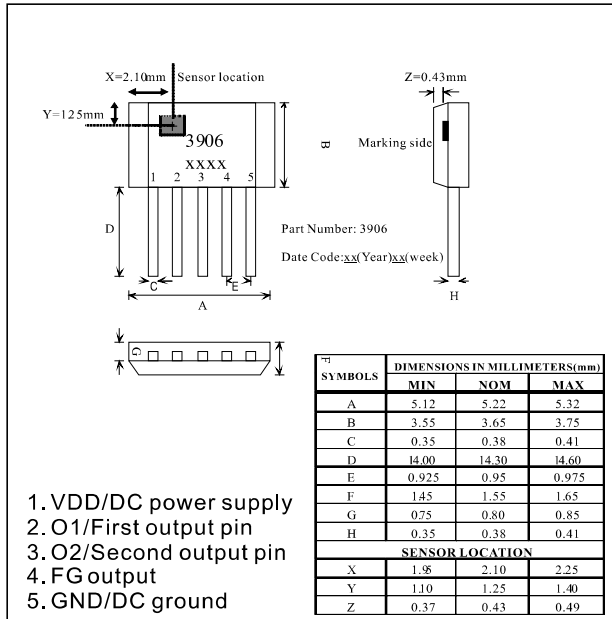


### Package: T092-5pin



## Key Features

- 3V~18V supply voltage
- Built-in Hall sensor
- Motor locked protection & automatic restart
- FG Output
- Built-in hysteresis comparator
- Built-in protection Zener diode
- High sensitivity & low thermal drift magnetic sensing
- Low power consumption & high driving efficiency

## Applications

- 5V/12V double coils DC brushless fan motor
- Revolution counting
- Cooling fan for household electronics
- Cooling fan for consumer electronics e.g. PC
- General purpose cooling fan solution e.g. Audio

The PT3906T is designed for magnetic actuating using a bipolar magnetic field. The built-in dynamic offset cancellation of pre-amplifier stage achieves optimal symmetrical magnetic sensing. The output driver provides a linear drive to eliminate switching noise. This Hal driver IC is optimal for 12V brushless DC fan of consumer/household/ audio field. The supply voltage range is from 3V to 18V.

### Specifications

#### Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax		18	V
Allowable power dissipation	Pd		568 <sup>*1</sup>	mW
Operating temperature	Ta		-30~+85	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	I <sub>OMAX</sub>	0.5sec	800 <sup>*2</sup>	mA
Max. FG output current	I <sub>RDMAX</sub>		20	mA
Thermal resistance	Raj		220	°C/W

\*1: Reduced by 4.5mW for each increase in Ta over 25°C When mounted on 50mm x 50mm x 1.6mm glass epoxy board

\*2: Should not exceed Pd