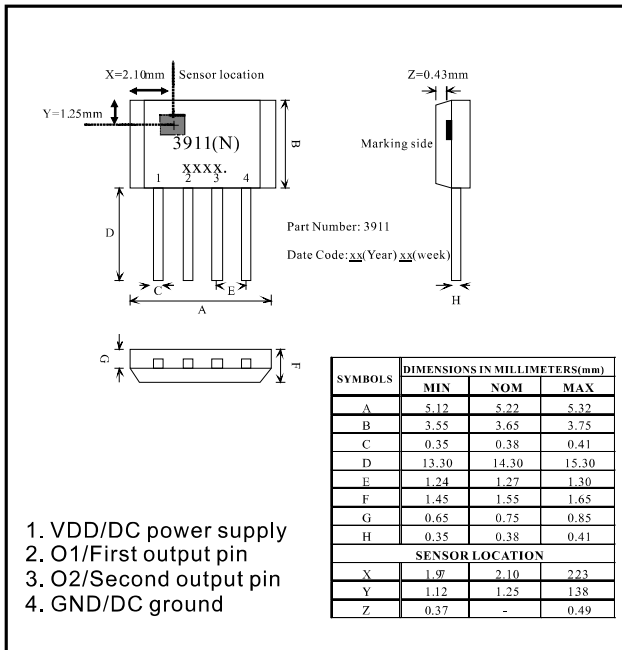


Package: T092-4pin



The PT3911 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 Hall effect IC is optimal for DC brushless fan application. The supply voltage range is from 2.7V to 28V and the output current is 400mA.

Specifications

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax		28 ^{*3}	V
Allowable power dissipation	Pd		568 ^{*1}	mW
Operating temperature	Ta		-40~+100	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	Iomax	0.5sec	800 ^{*2}	mA
Thermal resistance	Raj		220	°C/W
Junction temperature	Tj		150	°C

*1: Reduced by 4.5mW 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

*3: Need a serial resistor

Key Features

- 2.7V~28V supply voltage
- Soft switching output
- Built-in Hall sensor
- Motor locked protection & automatic restart
- ESD protection: 8KV
- 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/24V double coils DC brushless fan motor
- Revolution counting
- Cooling fan for household electronics
- Cooling fan for OA equipments
- General purpose cooling fan solution e.g. Audio
- Cooling fan for game consoles.