# Linear Hall Effect Sensor IC

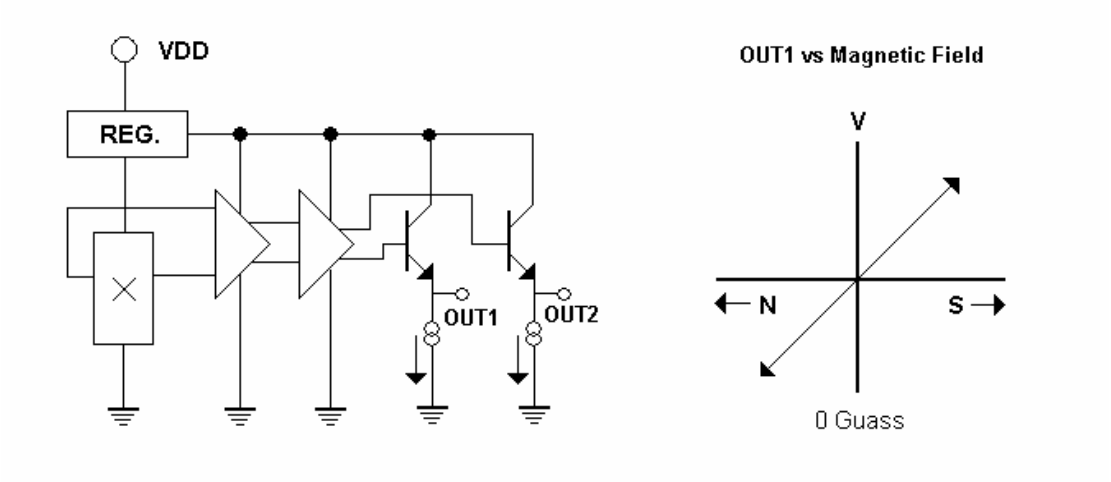
## Features:

- Wide operating range 2.2~12V, -20℃~100℃
- Flat Response to 16kHz
- Low operating current 3mA
- High Sensitivity on different supplied voltage
  Sensitivity: 10mV/Guass (Differential output) on 3V
  Sensitivity: 20mV/Guass (Differential output) on 5V
- Two package styles TO-94/SOT-25 available.

## Functional Description :

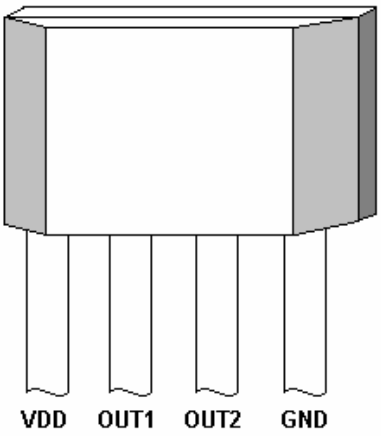
The W201 integrates Hall sensing element, linear amplifer, sensitivity controller and emitter follower output stage.It accurately tracks extremely small change in magnetic flux density –generally too small to operate Hall effect switch.

W201 can be applied as current sensor, tooth sensor, proximity detectors and motion detectors. As sensitive monitor of magnetic flux, it can effectively measure a system's performance with negligible system loading while providing isolation from contaminated and electrically noisy environments.



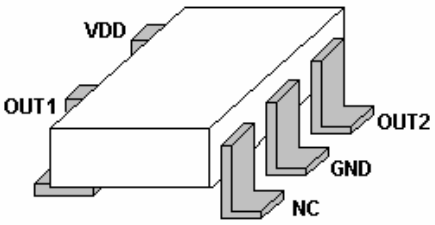

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## ABSOLUTE MAXIMUM RATING

Supply Voltage, Vdd ---------- **14V**
Magnetic Flux Density, B ----------**Unlimited**
Output Driving Current, Iout ---------- **5mA**
Operating Temperature Range
Ta ---------- **-20°C to +100°C**
Storage Temperature Range
Ts ---------- **-65°C to +150 °C**
Power Dissipation Pd
TO-94 ---------- **450mW**
SOT-25 ---------- **350mW**

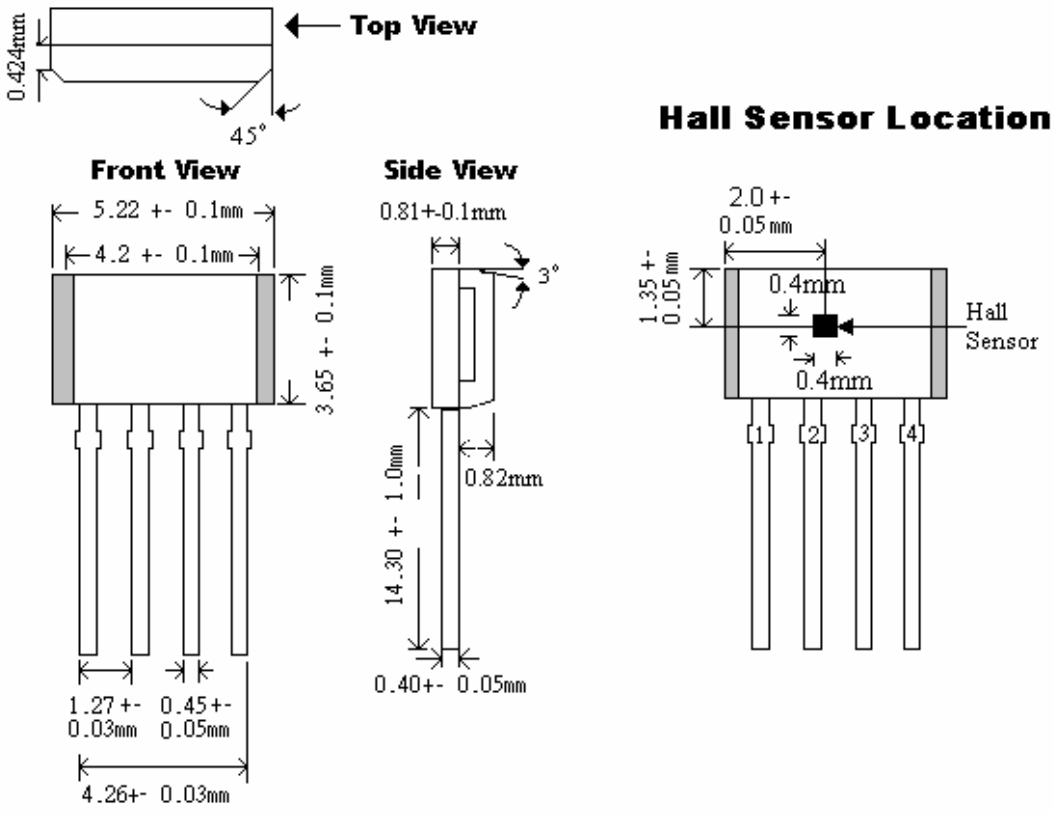



## ORDER INFORMATION

WSH201-XPAN ---------- **TO-94**
WSH201-XPDN ---------- **SOT-25**

## Package Information:

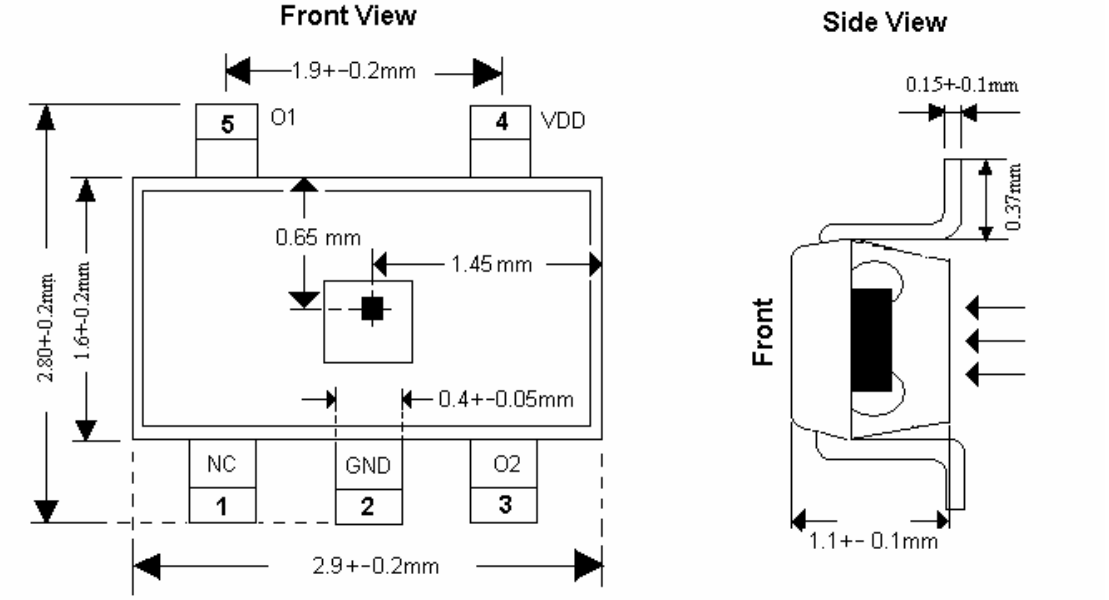
**TO94:**




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**SOT-25：**




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