Linear Hall Effect Sensor IC

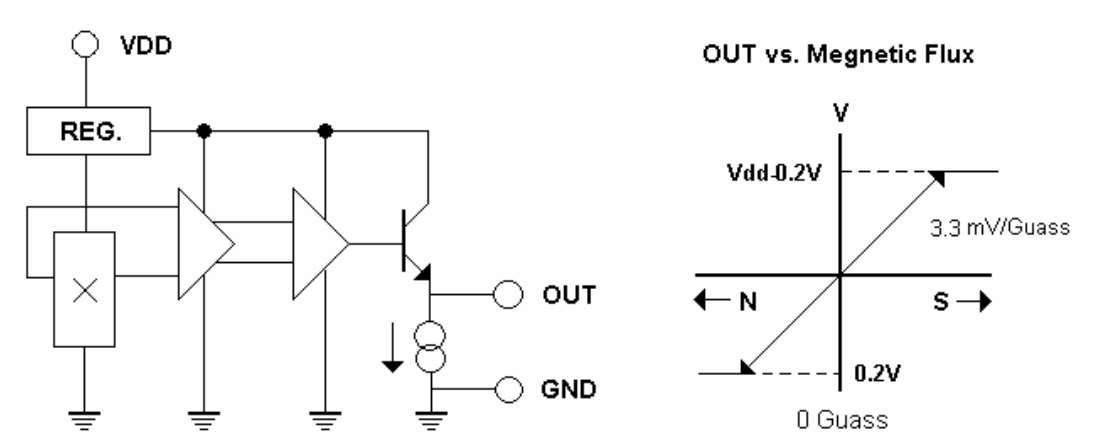
Features:

- Wide operating range 3.0~12V, -40℃~125℃
- Flat Response to 23kHz
- High Sensitivity 3.3mV/G
- Wide sensible magnetic field range on different supplied voltage
  ±600 Guass on 5V supplied voltage
  ±1500 Guass on 12V supplied voltage. Low operating current 3mA
- Two package styles TO-92S/SOT-23 available.

Functional Description :

The W136 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.

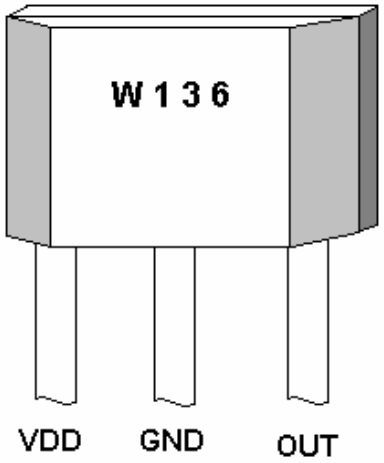
W136 can be applied as current sensor, tooth sensor, proximity detectors and motion detectors. As sensitive monitor of magnetic flux, it can effectively measure a system's performance with negligible system loading while providing isolation from contaminated and electrically noisy environments.



Winson reserves the right to make changes to improve reliability or manufacturability.

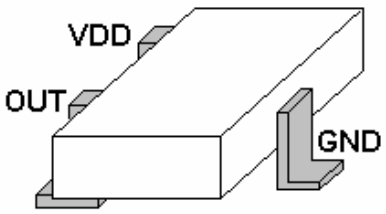
©Winson, 2007/8/28

WSH136



ABSOLUTE MAXIMUM RATING

Supply Voltage, Vdd ---------- **14V**
Magnetic Flux Density, B ----------**Unlimited**
Output Driving Current ---------- **0.4mA**
Operating Temperature Range
Ta ---------- **-40°C to +125°C**
Storage Temperature Range
Ts ---------- **-65°C to +150°C**
Power Dissipation Pd
TO-92S ---------- **450mW**
SOT-23 ---------- **350mW**



ORDER INFORMATION

WSH136-XPAN ---------- **TO-92S**
WSH136-XPCN ---------- **SOT-23**

Electrical Characteristics: **(T=+25˚C, Vdd=5.0V)**

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Units
Supply Voltage	Vcc	—	3.0	—	12	V
Supply Current	Isupply	B=0 Guass	—	3.5	6.0	mA
Quiescent Vout	Vout	B=0 Guass	2.35	2.5	2.65	V
Sensitivity	△Vout	B= 0 to ± 500 G	2.8	3.3	3.8	mV/G
Bandwidth	BW		—	23	—	kHz
Measurable Guass Range	MGR	Vdd=5V	—	±600	—	Guass
		Vdd=12V	—	±1500	—	
Temperature Drift	△Vout	B=0 Guass	—		—	mV/℃

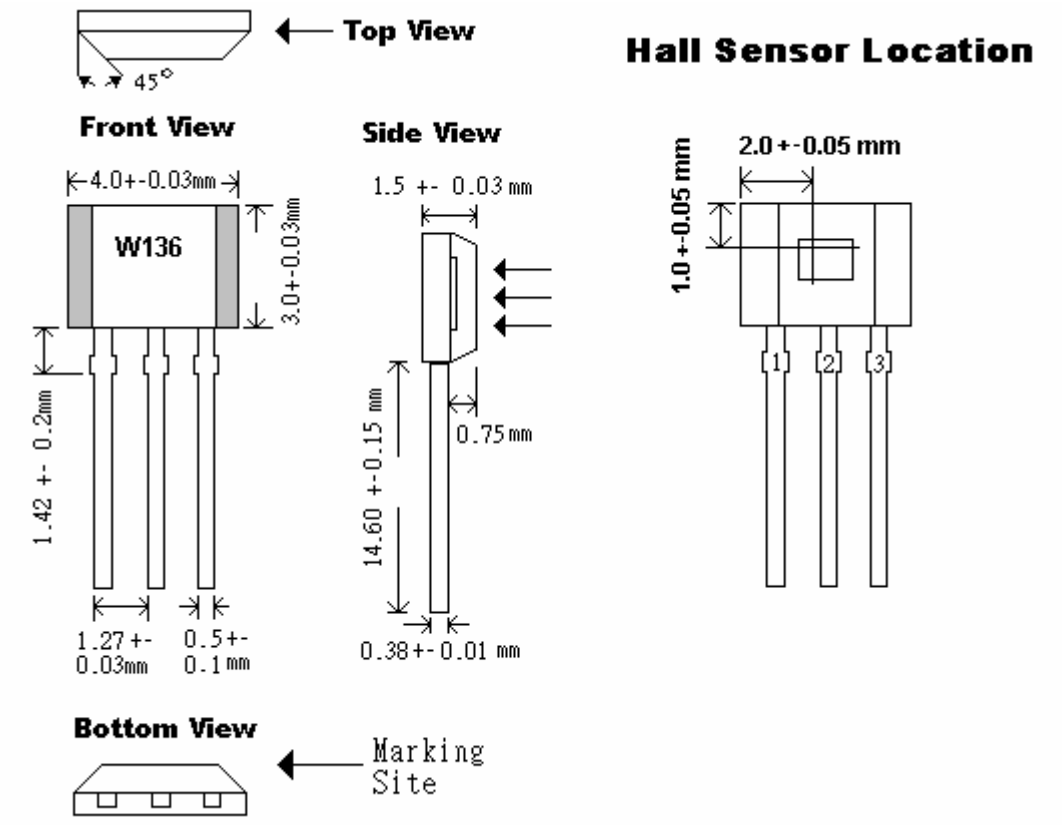
All output-voltage measurements are made with a voltmeter having an input impedance of at least 100kΩ

Winson reserves the right to make changes to improve reliability or manufacturability.

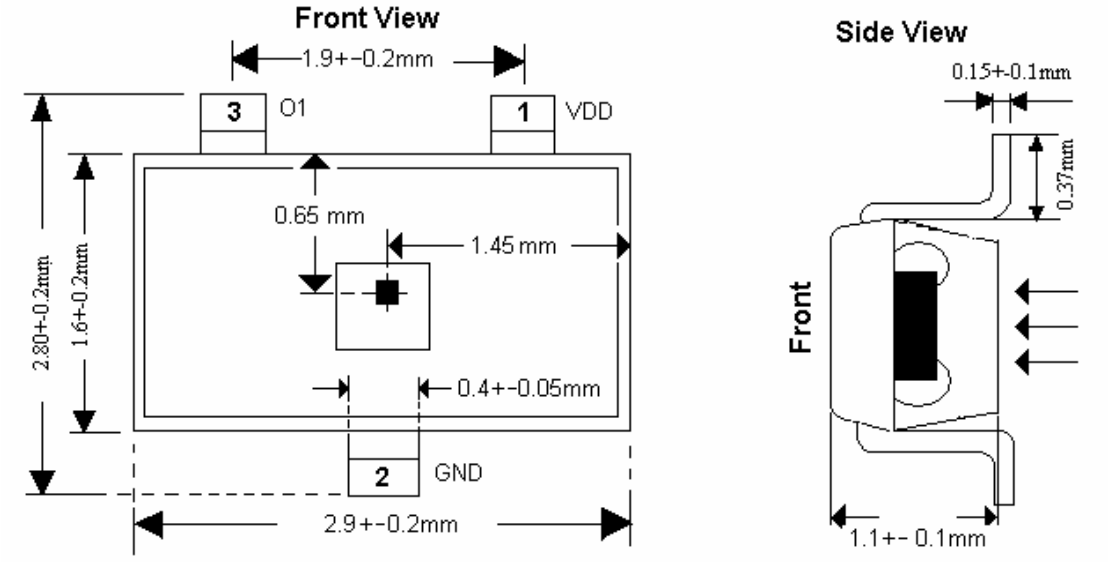
©Winson, 2007/8/28

Package Information:

TO92S:



SOT23:



Winson reserves the right to make changes to improve reliability or manufacturability.

©Winson, 2007/8/28