

Linear Hall Effect Sensor IC

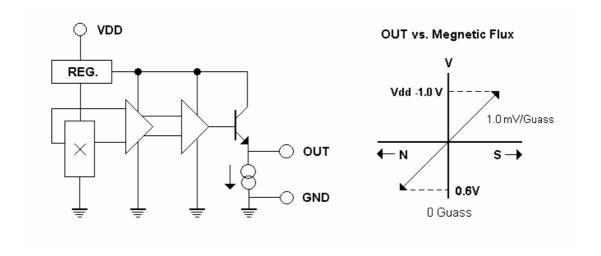
Features:

- Wide operating range 3.0~12V, -20°C ~85°C
- Flat Response to 23kHz
- Low noise output
- Wide sensible magnetic field range on different supplied voltage ±1,500 Guass on 5V supplied voltage
 ±4,500 Guass on 12V supplied voltage.
- Low operating current 3mA
- Two package styles TO-92S/SOT-23 available.

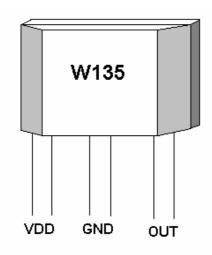
Functional Description:

The WSH135 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.

WSH135 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.

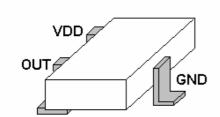






ABSOLUTE MAXIMUM RATING

Unlimited	Supply Voltage, Vdd Magnetic Flux Density, B Output Driving Current, lou
lange .	Operating Temperature Ra
nge 65°C to +150°C	Storage Temperature Rang Ts
	Power Dissipation Pd TO-92SSOT-23



ORDER INFORMATION

WSH135-XPAN -	 TO-92S
WSH135-XPCN	 SOT-23

Electrical Characteristics:

 $(T=+25^{\circ}C, Vdd=5.0V)$

Characteristic	Symbol	Test Conditions	Min	Тур	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	2.3	2.5	2.7	V
Sensitivity	△Vout	$B = 0 \text{ to } \pm 1200 \text{ G}$	0.7	1.0	1.3	mV/G
Bandwidth	BW		_	23	_	kHz
Measurable Guass	MGR	Vdd=5V	=	±1500	=	Guass
Range		Vdd=12V	_	±4500	_	

All output-voltage measurements are made with a voltmeter having an input impedance of at least $100 k\Omega$

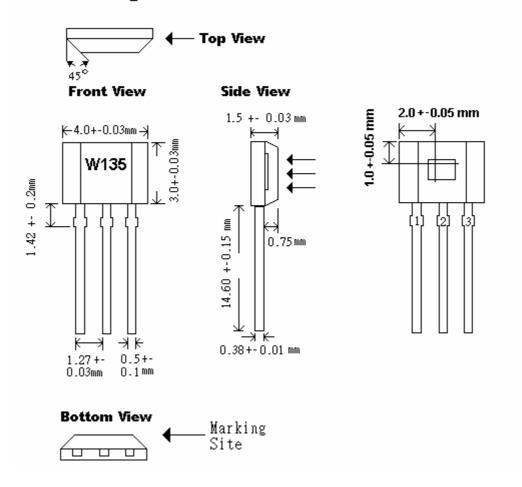


Package Information:

TO92S:

Package Dimension

Hall Sensor Location



SOT23:

