

Linear Hall Effect Sensor IC

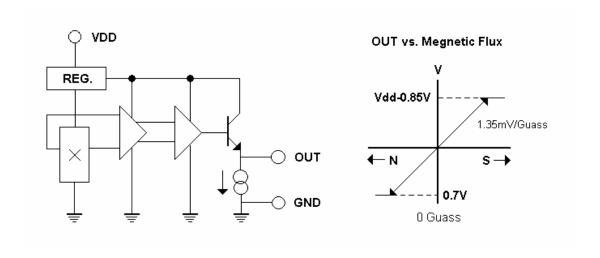
Features:

- Wide operating range 3.0~6.5V, -20°C ~100°C
- Flat Response to 23kHz
- Low noise output
- Wide sensible magnetic field range on different supplied voltage ±900 Guass on 5V supplied voltage
- Small package styles TO-92S available.

Functional Description:

The WSH49E 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.

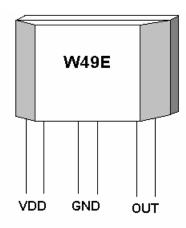
WSH49E can be applied as current sensor, tooth sensor, proximity detectors and motion detectors. As sensitive monitor of magnetic flux, it can effectively measure a system's performance with negligible system loading while providing isolation from contaminated and electrically noisy environments.



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

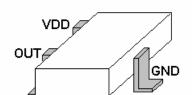
WSH49E





ABSOLUTE MAXIMUM RATING

Supply Voltage, Vdd 7 V Magnetic Flux Density, BUnlimited Output Driving Current, lout 5mA
Operating Temperature Range Ta
Ts -65°C to +150°C Power Dissipation Pd TO-92S 450mW
SOT-23 350mW



ORDER INFORMATION

WSH49E-XPAN ----- TO-92S

Electrical Characteristics:

(T=+25)	' C.	Vdd	l=5.	0V)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Units
Supply Voltage	Vcc		3.0		6.5	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	$B = 0 \text{ to } \pm 800 \text{ G}$	1.0	1.45	1.7	mV/G
Bandwidth	BW		_	23		kHz
Measurable Guass	MGR	Vdd=5V	_	±9000	_	Guass
Range					_	

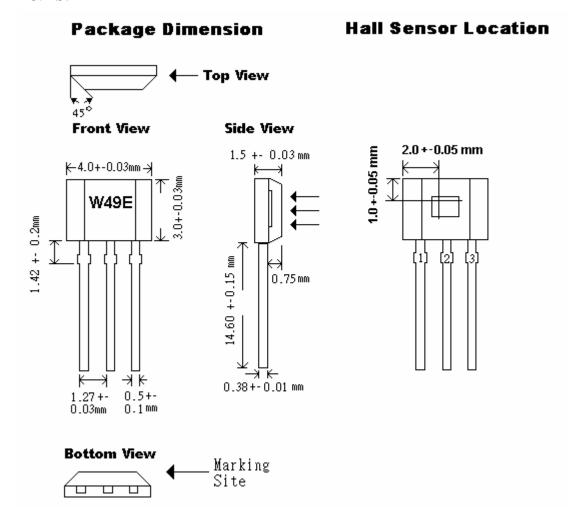
All output-voltage measurements are made with a voltmeter having an input impedance of at least 100 k Ω

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Package Information:

TO92S:



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