

# **EW-752B**

Shipped in bulk(500pcs/Bag)

EW-752B is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

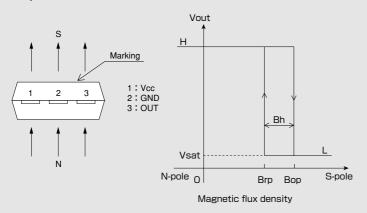
Unipolar Hall Effect Switch Supply Voltage 3~26.4V

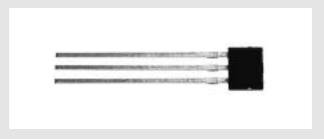
Hall Element Continuous Excitation Standard Sensitivity
Bop:6mT

Output With Pull-up Resistor SIP

Notice: It is requested to read and accept "IMPORTANT NOTICE" written on the back of the front cover of this catalogue.

#### Operational Characteristics



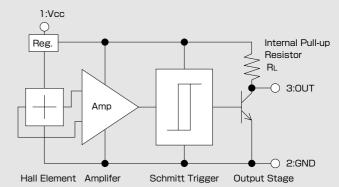


## ● Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Limit	Unit	
Supply Voltage	V <sub>cc</sub>	26.4**	V	
Output H Voltage	V <sub>o(off)</sub>	V <sub>cc</sub>	V	
Output L Current	Isink	10	mA	
Operating Temperature Range	Topr	−40 ~ 115	°C	
Storage Temperature Range	Tstg	−40 ~ 125	°C	

 $<sup>(*) \ \</sup>mathsf{Please} \ \mathsf{refer} \ \mathsf{to} \ \mathsf{Supply} \ \mathsf{Voltage} \ \mathsf{Derating} \ \mathsf{Curve}.$ 

# Functional Block Diagram



## ●Magnetic and Electrical Characteristics (Ta=25°C)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Supply Voltage	V <sub>CC</sub>		3	12	26.4	V
Operating Point	B <sub>OP</sub>	V <sub>CC</sub> =12V	3	6	10	mT
Release Point	B <sub>rp</sub>	V <sub>CC</sub> =12V	2.5	5	9.5	mT
Hysteresis	Bh	V <sub>CC</sub> =12V	0.5	1.1	2.5	mT
Output Saturation Voltage	V <sub>sat</sub>	V <sub>CC</sub> =12V,OUT"L"			0.4	V
Supply Current	$I_{CC}$	V <sub>CC</sub> =12V,OUT"H"		5	6	mA
Output Down Voltage	٧d	V <sub>CC</sub> =12V,OUT"H"			20	mV
Internal Load Resistance	RL		7	10	13	kΩ

1[mT]=10[Gauss]

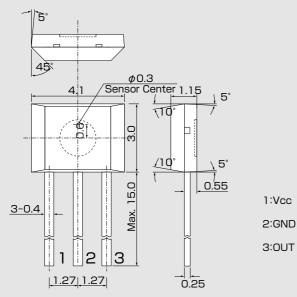
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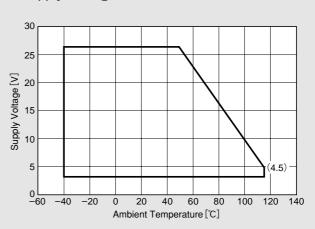
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# ●Package (Unit:mm)

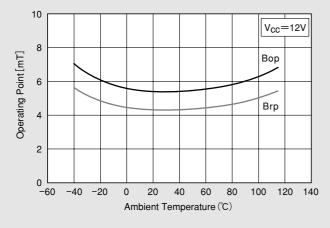


Supply Voltage

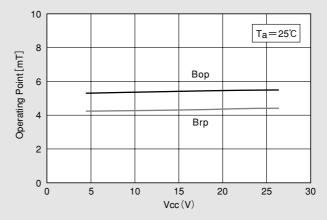


Note) The sensor center is located within the  $\phi$ 0.3mm circle.

#### ●Temparature Dependence of Bop. Brp



## Supply Voltage Dependence of Bop. Brp



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