

# **EW-750B**

## Shipped in bulk(500pcs/Reel)

EW-750B is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

Unipolar Hall Effect Switch

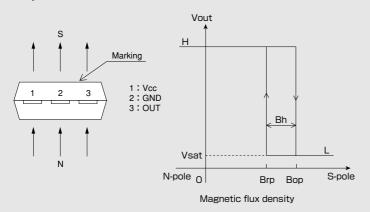
Supply Voltage 3~26.4V

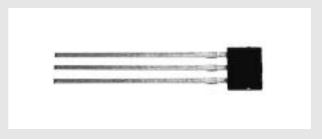
Hall Element Continuous Excitation Standard Sensitivity
Bop:6mT

Output Open Collector SIP

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

### Operational Characteristics



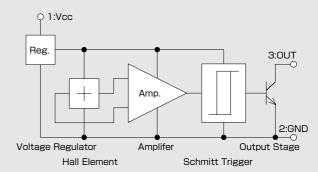


## ● Absolute Maximum Ratings (Ta=25°C)

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			

 $<sup>(\</sup>ensuremath{\boldsymbol{\ast}})$  Please refer to Supply Voltage Derating Curve.

# Functional Block Diagram



Another product type with pulled-up resistor(EW-752B). Please contact AKEMD to obtain the detail information.

# ● 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",I <sub>Sink</sub> =10mA			0.4	V
Output Leakage Current	I <sub>leak</sub>	V <sub>CC</sub> =12V,OUT"H",V <sub>Out</sub> =12V			1	μΑ
Supply Current	$I_{CC}$	V <sub>CC</sub> =12V,OUT"H"		5	6	mA

1 [mT] =10 [Gauss]

а

е

m

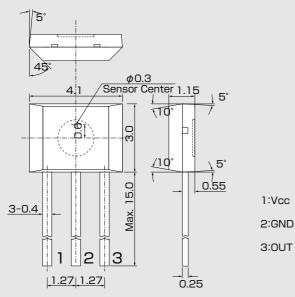
p

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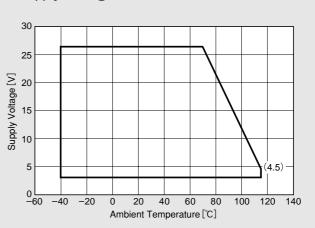
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# ●Package (Unit:mm)

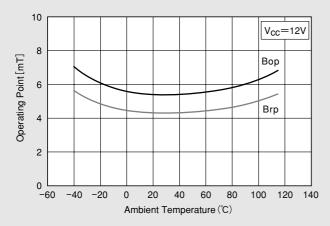


Supply Voltage

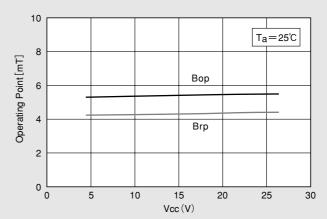


Note) The sensor center is located within the  $\phi$ 0.3mm circle.

#### ●Temparature Dependence of Bop. Brp



# Supply Voltage Dependence of Bop. Brp



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