EW-750B

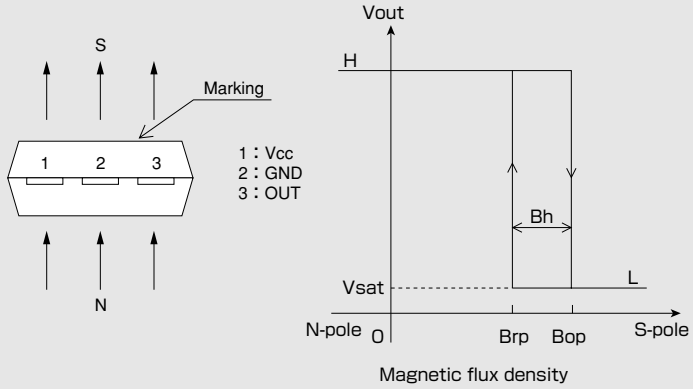
Shipped in bulk(500pcs/Bag)

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

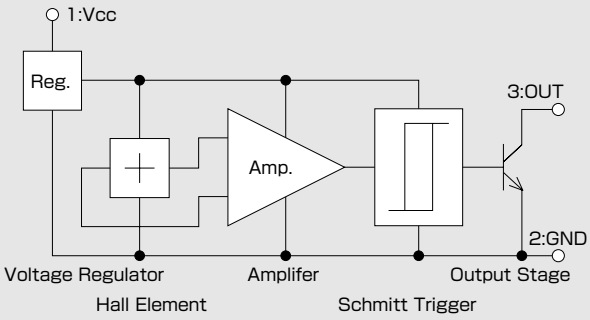


●Absolute Maximum Ratings (Ta=25℃)

Item	Symbol	Limit	Unit
Supply Voltage	V_{CC}	26.4(*)	V
Output H Voltage	$V_{O(off)}$	V_{CC}	V
Output L Current	Isink	10	mA
Operating Temperature Range	Topr	−40 ～ 115	℃
Storage Temperature Range	Tstg	−40 ～ 125	℃

(*) Please refer to Supply Voltage Derating Curve.

●Functional Block Diagram



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

●Magnetic and Electrical Characteristics (Ta=25℃)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	V_{CC}		3	12	26.4	V
Operating Point	B_{OP}	V_{CC}=12V	3	6	10	mT
Release Point	B_{rp}	V_{CC}=12V	2.5	5	9.5	mT
Hysteresis	B_h	V_{CC}=12V	0.5	1.1	2.5	mT
Output Saturation Voltage	V_{sat}	V_{CC}=12V,OUT"L",I_{sink}=10mA			0.4	V
Output Leakage Current	I_{leak}	V_{CC}=12V,OUT"H",V_{out}=12V			1	μA
Supply Current	I_{CC}	V_{CC}=12V,OUT"H"		5	6	mA

1 [mT] =10 [Gauss]

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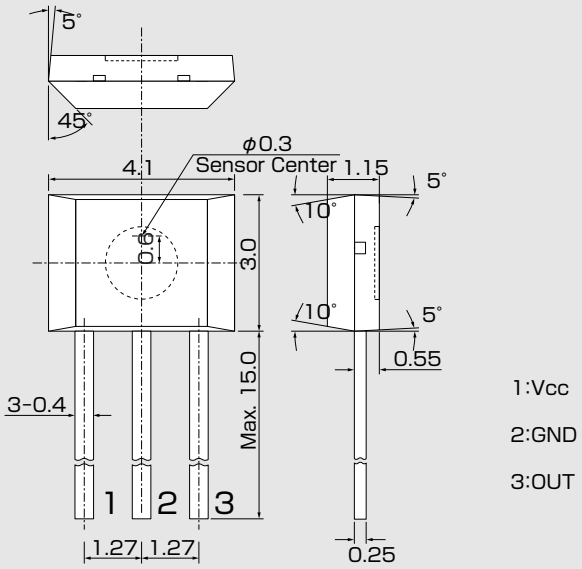
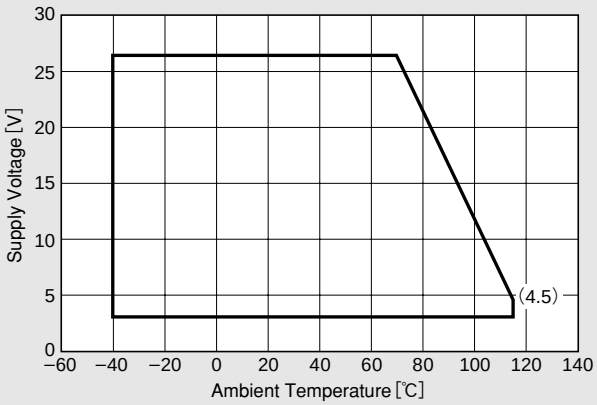
●Package (Unit:mm)

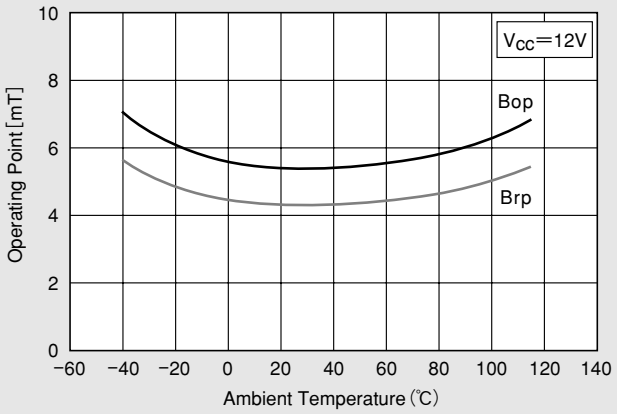


Note) The sensor center is located within the φ0.3mm circle.

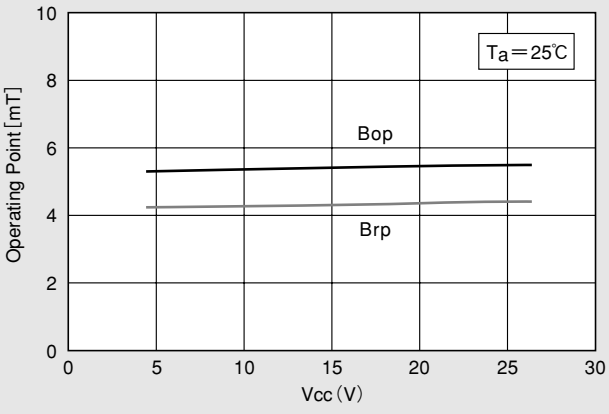
●Supply Voltage



●Temparature Dependence of Bop. Brp



●Supply Voltage Dependence of Bop. Brp



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April 4, 2012