

EW-710B

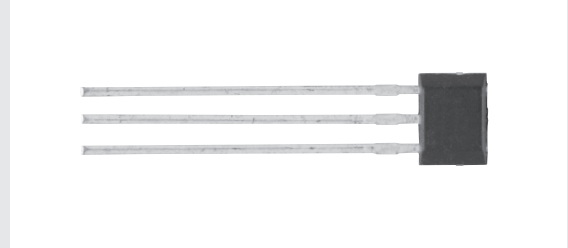
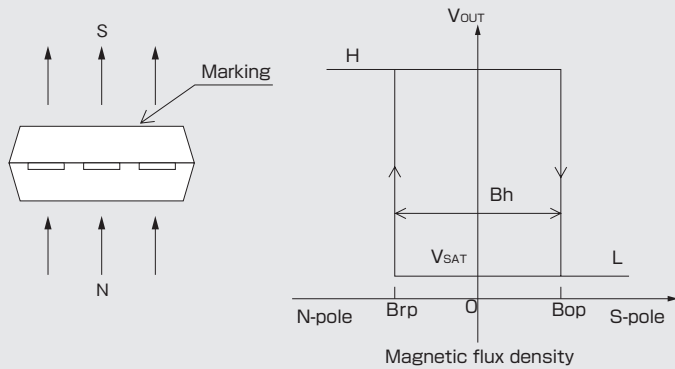
Shipped in bulk(500pcs/Bag)

EW-710B is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

Bipolar Hall Effect Latch	Supply Voltage 3~26.4V	Hall Element Continuous Excitation	High Sensitivity Bop:3mT	Output Open Collector	SIP
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●Operational Characteristics



●Absolute Maximum Ratings (Ta=25°C)

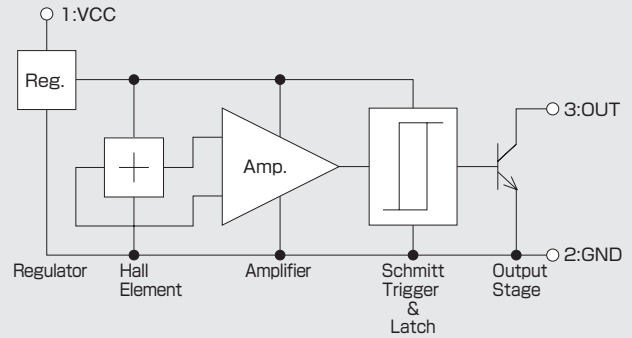
Item	Symbol	Min.	Max.	Unit
Supply Voltage	V_{CC}	-0.3	26.4 ^(*)	V
Output H Voltage	$V_{O(off)}$	-0.3	V_{CC}	V
Output L Current	I_{SINK}	0	10	mA
Storage Temperature Range	T_{STG}	-40	+125	°C

(*) Please refer to Supply Voltage Derating Curve.

●Recommended Operating Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	V_{CC}	3	12	26.4	V
Operating Temperature Range	T_{opr}	-40	+25	+115	°C

●Functional Block Diagram



Another product type with pulled-up resistor (EW-712B). Please contact AKM to obtain the detail information.

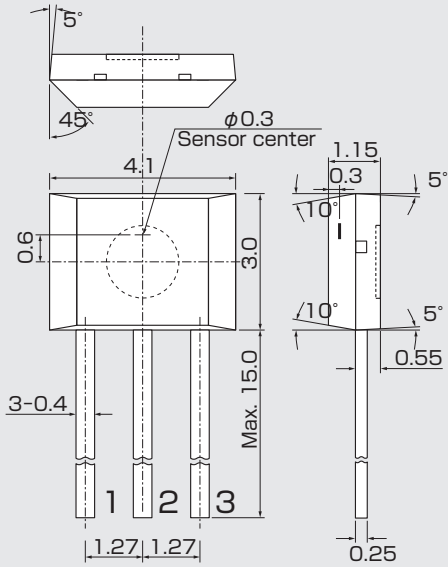
●Magnetic and Electrical Characteristics (Ta=25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	Bop	$V_{CC}=12V$	1	3	6	mT
Releasing Point	Brp	$V_{CC}=12V$	-6	-3	-1	mT
Hysteresis	Bh	$V_{CC}=12V$	2	6		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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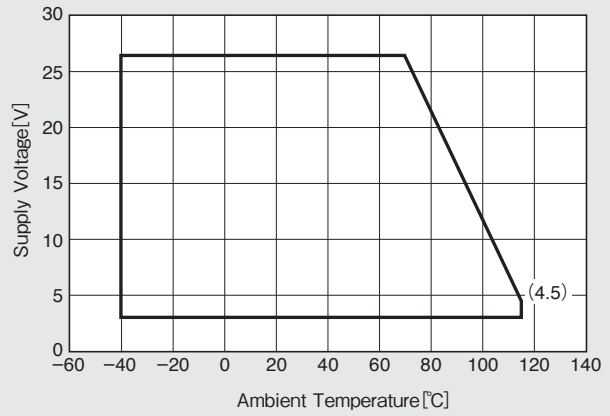
●Package (Unit:mm)



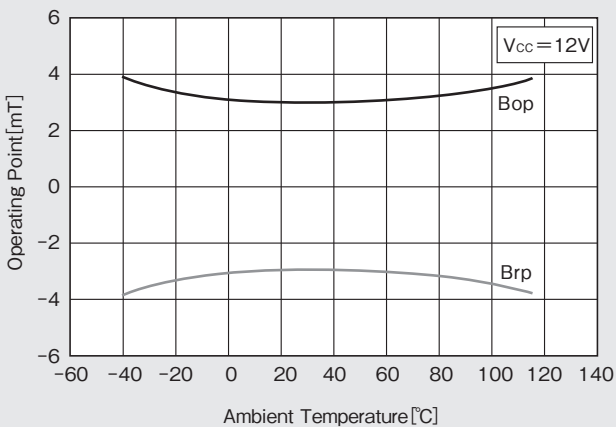
Pin No.	Pin Name	Function
1	VCC	Power Supply
2	GND	Ground
3	OUT	Output

- Note1) The sensor center is located within the $\phi 0.3$ mm circle.
- Note2) The tolerances of dimensions with no mentions is ± 0.1 mm.
- Note3) The sensor part is located 0.3mm (typ.) far from marking surface.

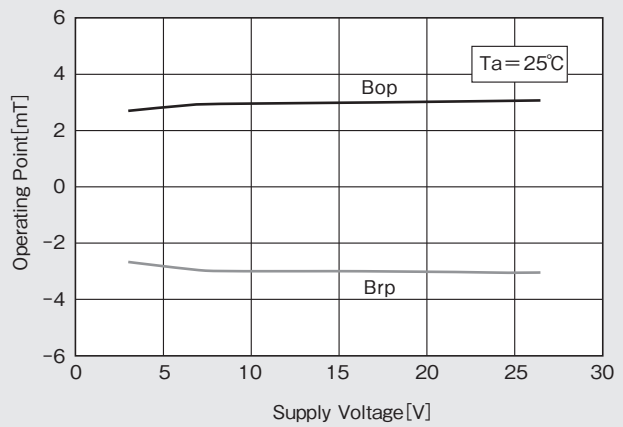
●Supply Voltage



●Temperature Dependence of Bop, Brp



●Supply Voltage Dependence of Bop, Brp



c

f

m

o

p

q

r

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February 21, 2013

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