

# EW-712B

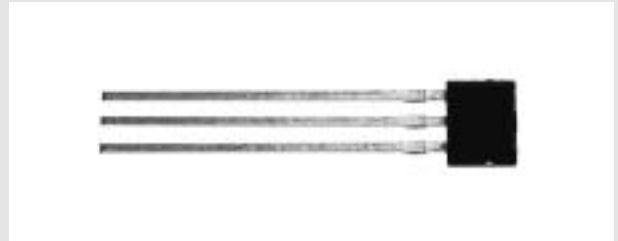
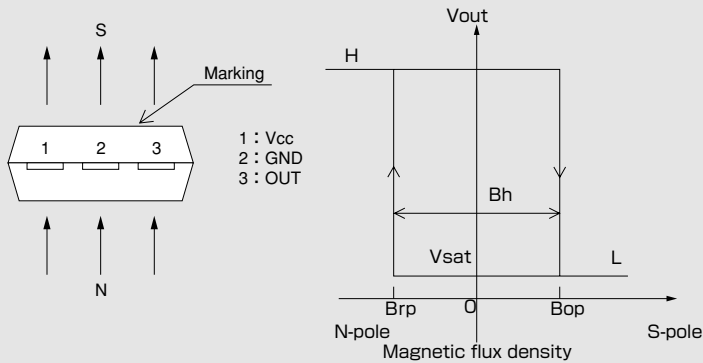
Shipped in bulk(500pcs/Bag)

EW-712B 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 With Pull-up Resistor	SIP
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Notice:It is requested to read and accept "IMPORTANT NOTICE" written on the back of the front cover of this catalogue.

## ●Operational Characteristics

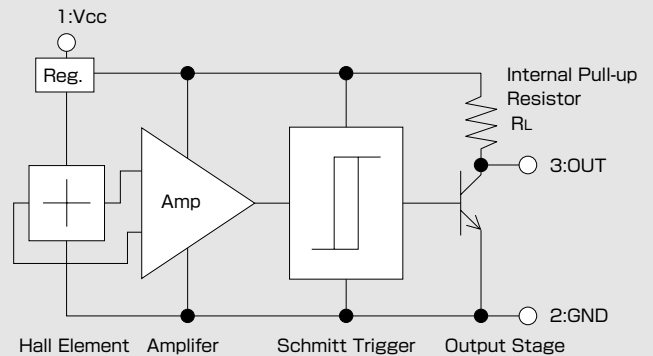


## ●Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Limit	Unit
Supply Voltage	$V_{CC}$	26.4 <sup>(*)</sup>	V
Output H Voltage	$V_{O(off)}$	$V_{CC}$	V
Output L Current	$I_{sink}$	10	mA
Operating Temperature Range	$T_{opr}$	-40 ~ 115	°C
Storage Temperature Range	$T_{stg}$	-40 ~ 125	°C

(\*) Please refer to Supply Voltage Derating Curve.

## ●Functional Block Diagram



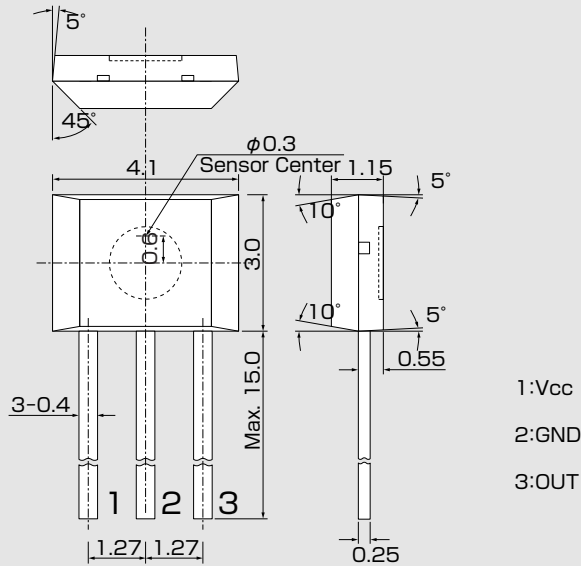
## ●Magnetic and Electrical Characteristics (Ta=25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	$V_{CC}$		3	12	26.4	V
Operating Point	$B_{OP}$	$V_{CC}=12V$	1	3	6	mT
Release Point	$B_{rp}$	$V_{CC}=12V$	-6	-3	-1	mT
Hysteresis	$B_h$	$V_{CC}=12V$	2	6		mT
Output Saturation Voltage	$V_{sat}$	$V_{CC}=12V, OUT="L"$			0.4	V
Supply Current	$I_{CC}$	$V_{CC}=12V, OUT="H"$		5	6	mA
Output Down Voltage	$V_d$	$V_{CC}=12V, OUT="H"$			20	mV
Internal Load Resistance	$R_L$		7	10	13	kΩ

1 [mT]=10 [Gauss]

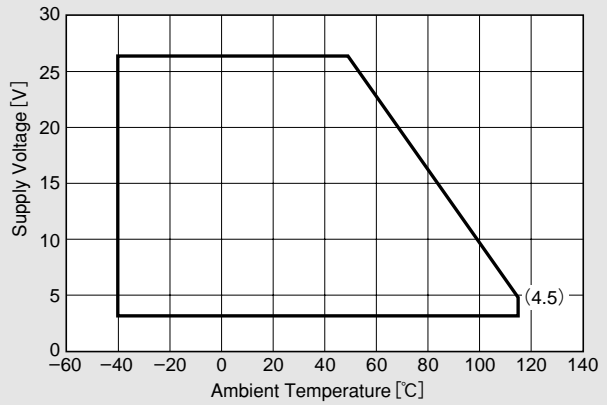
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●Package (Unit:mm)



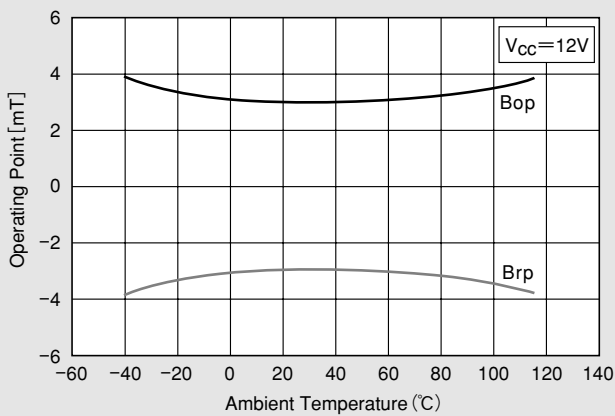
Note) The sensor center is located within the  $\phi 0.3$ mm circle.

●Supply Voltage

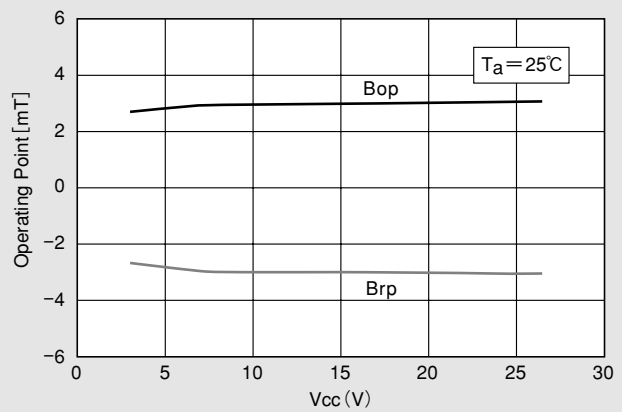


- 1:Vcc
- 2:GND
- 3:OUT

●Temperature Dependence of Bop, Brp



●Supply Voltage Dependence of Bop, Brp



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June 2, 2010

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