EW-712B

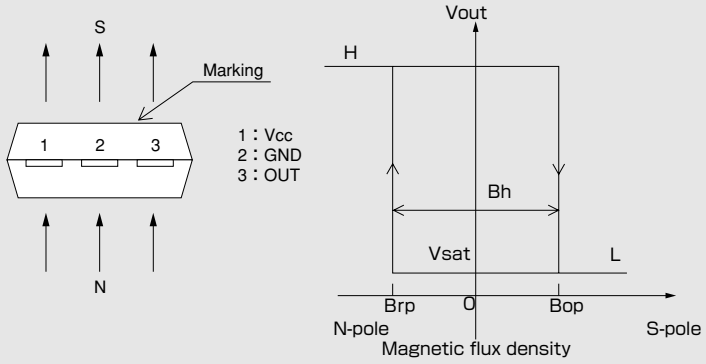
Shipped in bulk(500pcs/Bag)

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

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

●Operational Characteristics

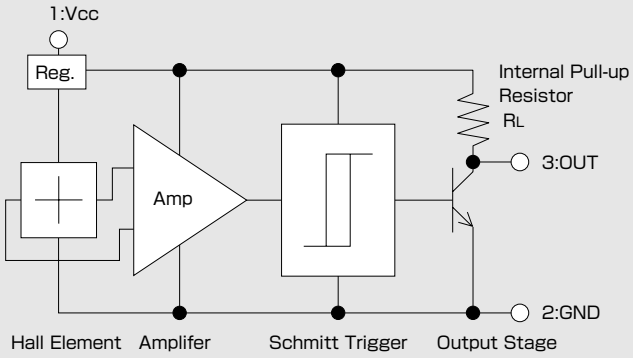


●Absolute Maximum Ratings (Ta=25℃)

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



●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	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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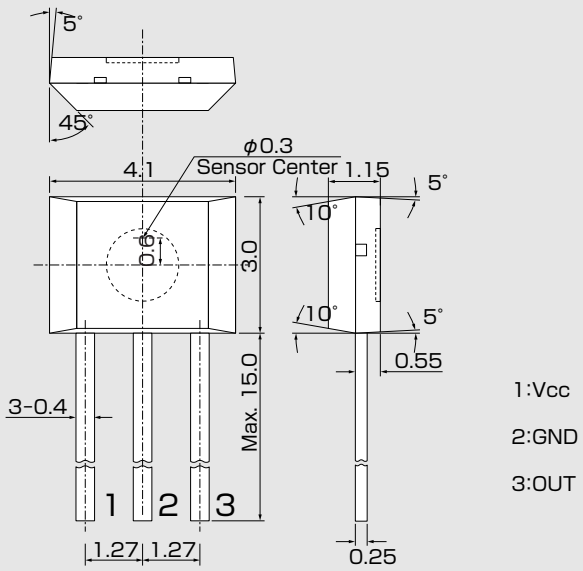
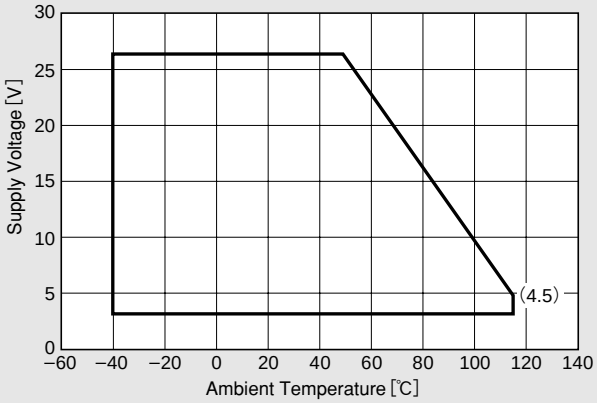
●Package (Unit:mm)



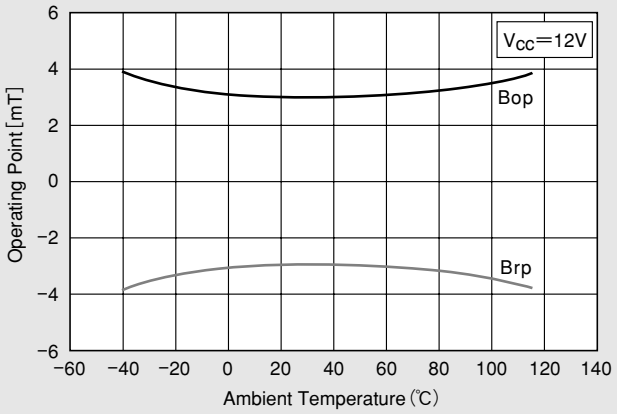
1:Vcc
2:GND
3:OUT

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

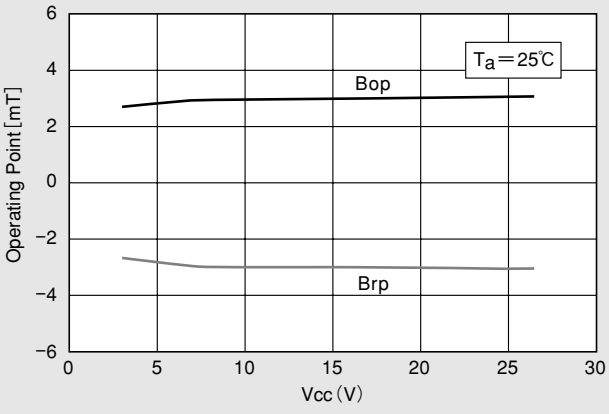
●Supply Voltage



●Temparature Dependence of Bop. Brp



●Supply Voltage Dependence of Bop. Brp



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June 2, 2010