

EW-712B

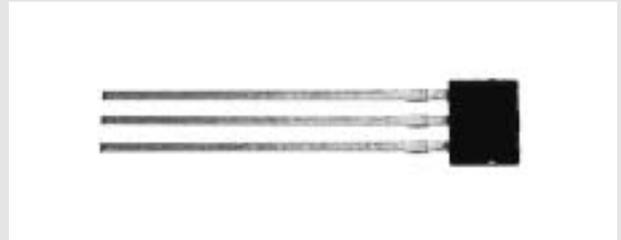
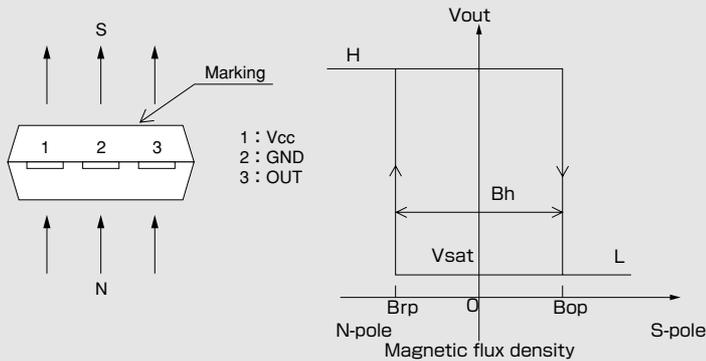
Shipped in bulk(500pcs/Bag)

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

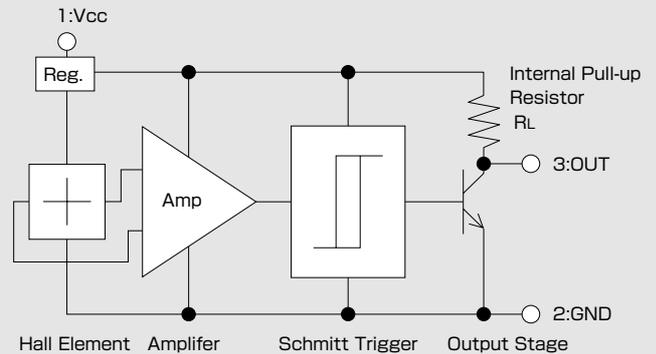


●Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Limit	Unit
Supply Voltage	V _{CC}	26.4 ^(*)	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



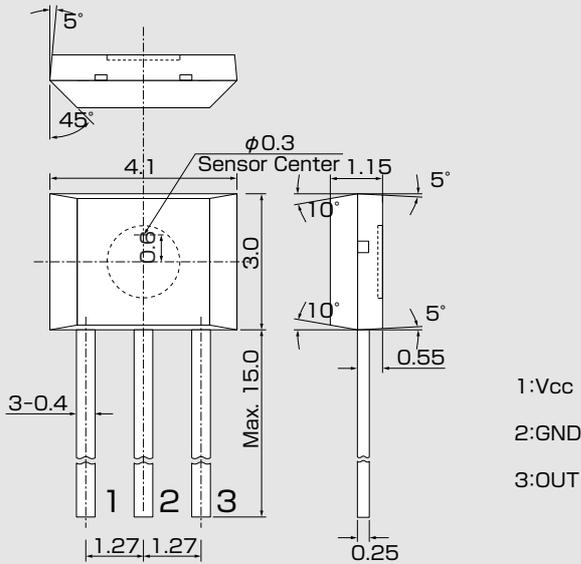
●Magnetic and Electrical Characteristics (Ta=25°C)

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]

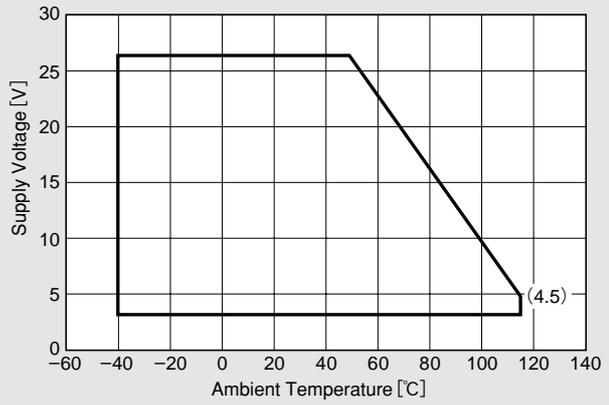
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●Package (Unit:mm)

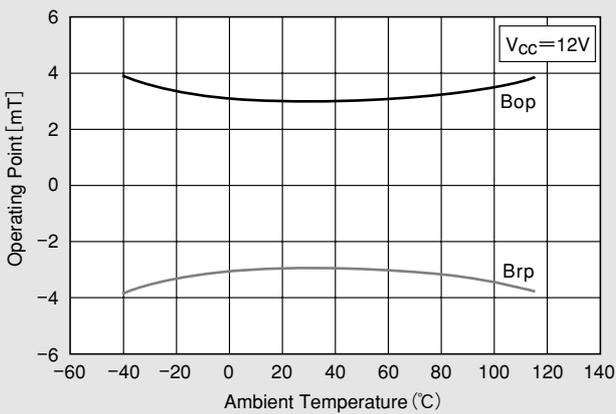


Note) The sensor center is located within the $\phi 0.3$ mm circle.

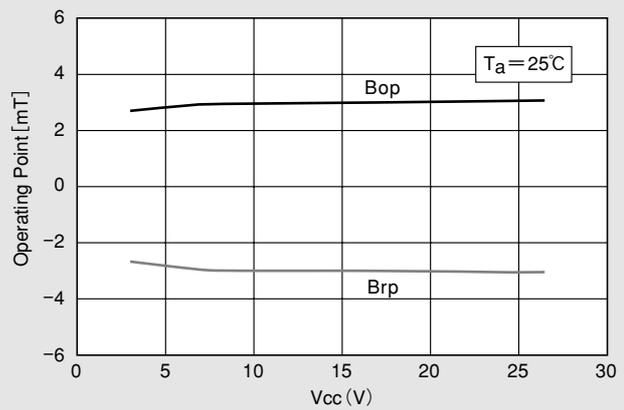
●Supply Voltage



●Temperature Dependence of Bop, Brp



●Supply Voltage Dependence of Bop, Brp



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June 2, 2010