EW-610B

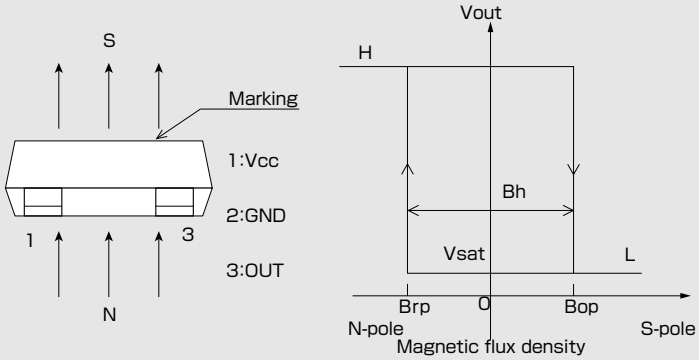
Shipped in packet-tape reel(3000pcs/Reel)

EW-610B 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	SMT

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

●Operational Characteristics

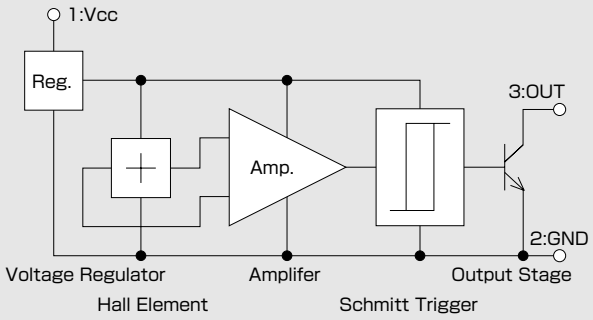


●Absolute Maximum Ratings (Ta=25℃)

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



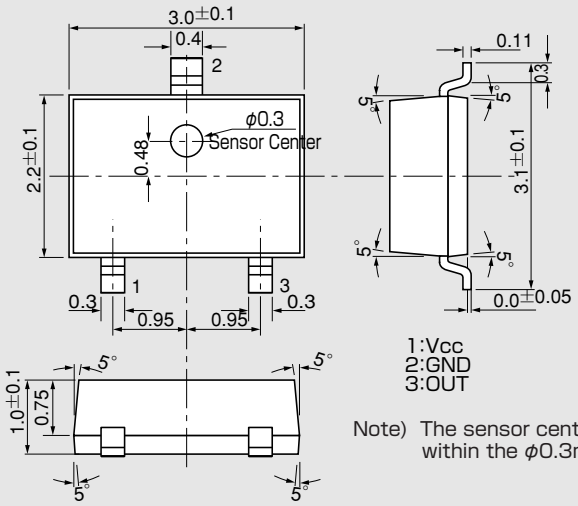
Another product type with pulled-up resistor(EW-612B).
Please contact AKM to obtain the detail information.

●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	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",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

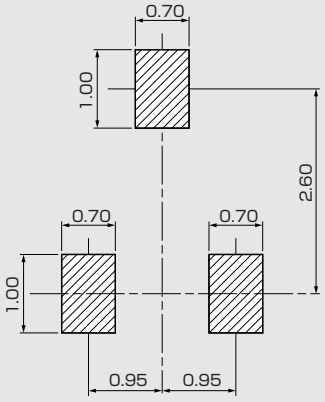
1 [mT] =10 [Gauss]

●Package (Unit:mm)

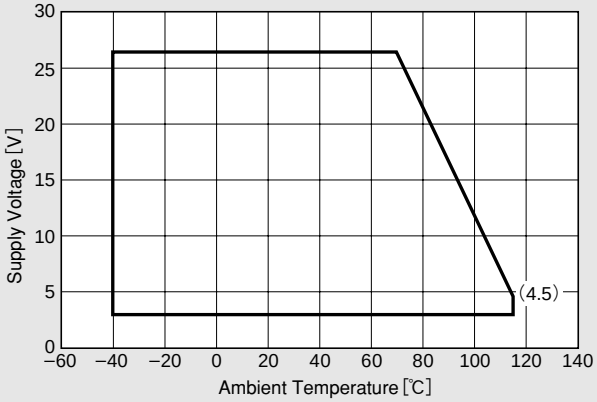


Note) The sensor center is located within the φ0.3mm circle.

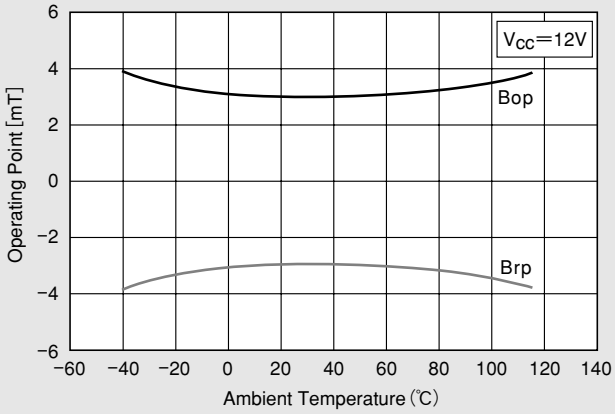
●(For reference only)Land Pattern (Unit:mm)



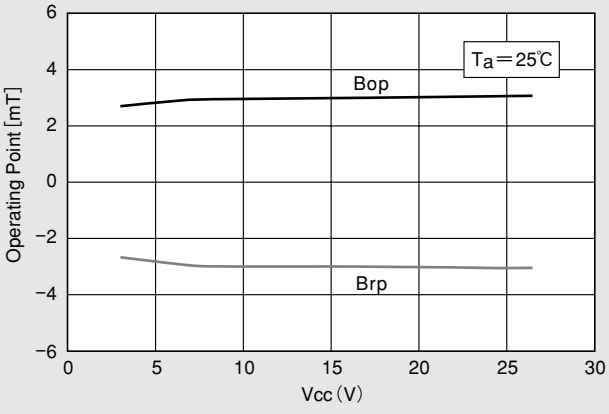
●Supply Voltage



●Temparature Dependence of Bop. Brp



●Supply Voltage Dependence of Bop. Brp



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April 4, 2012