

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.

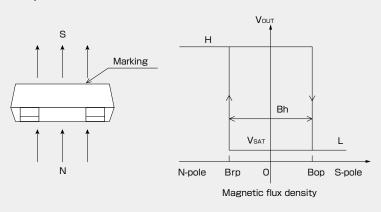
Bipolar Hall Effect Latch Supply Voltage 3~26.4V

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°C)

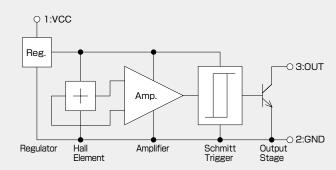
Item	Symbol	Min.	Max.	Unit	
Supply Voltage	Vcc	-0.3	26.4(*)	٧	
Output H Voltage	Vo(off)	-0.3	Vcc	V	
Output L Current	Isink	0	10	mA	
Storage Temperature Range	Тѕтс	-40	+125	°C	

 $^{(*) \ \}mathsf{Please} \ \mathsf{refer} \ \mathsf{to} \ \mathsf{Supply} \ \mathsf{Voltage} \ \mathsf{Derating} \ \mathsf{Curve}.$

Recommended Operating Conditions

Item	Symbol	Min.	Тур.	Max.	Unit
Supply Voltage	Vcc	3	12	26.4	V
Operating Temperature Range	Topr	-40	+25	+115	°C

●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°C)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Operating Point	Вор	Vcc=12V	1	3	6	mT
Releasing Point	Brp	Vcc=12V	-6	-3	-1	mT
Hysteresis	Bh	Vcc=12V	2	6		mT
Output Saturation Voltage	VSAT	Vcc=12V,OUT"L",Isink =10mA			0.4	٧
Output Leakage Current	utput Leakage Current ILEAK VCC=12V,OUT"H",VOUT=12V				1	μΑ
Supply Current	Icc	Vcc=12V,OUT"H"		5	6	mA

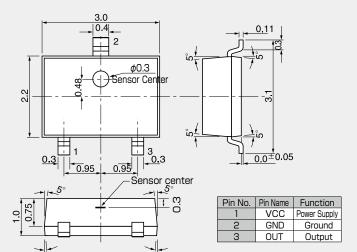
1 [mT] =10 [Gauss]

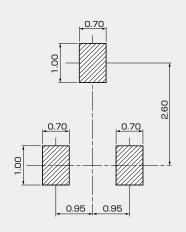
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●Package (Unit:mm)

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



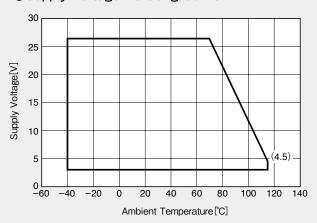


Note 1) The sensor center is located within the ϕ 0.3mm circle.

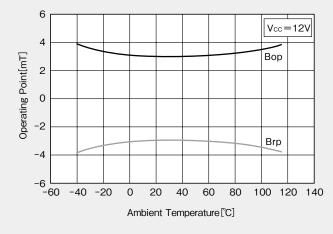
Note2) The tolerances of dimensions with no mentions is ± 0.1 mm.

Note3) The sensor part is located 0.3mm(typ.) far from marking surface.

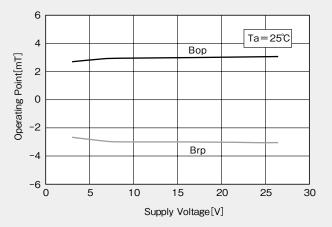
●Supply Voltage Derating Curve



●Temperature Dependence of Bop. Brp



●Supply Voltage Dependence of Bop. Brp



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