

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.

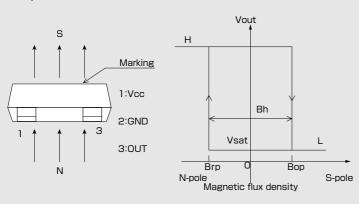
Bipolar Hall Effect Latch Supply Voltage 3~26.4V

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



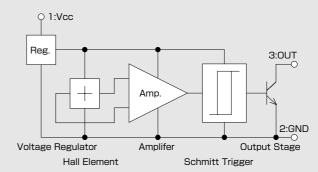


● Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	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	C	
Storage Temperature Range	Tstg	−40 ~ 125	°C	

 $^{(\}ensuremath{\boldsymbol{\ast}})$ Please refer to Supply Voltage Derating Curve.

Functional Block Diagram



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

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

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Supply Voltage	V _{CC}		3	12	26.4	٧
Operating Point	B _{OP}	V _{CC} =12V	1	3	6	mT
Release Point	B _{rp}	V _{CC} =12V	-6	-3	-1	mT
Hysteresis	Bh	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	μΑ
Supply Current	I_{CC}	V _{CC} =12V,OUT"H"		5	6	mA

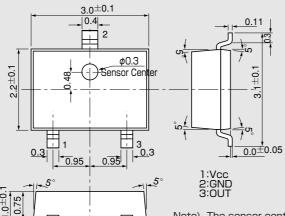
1 [mT] =10 [Gauss]

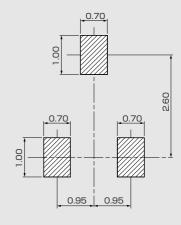
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●Package (Unit:mm)

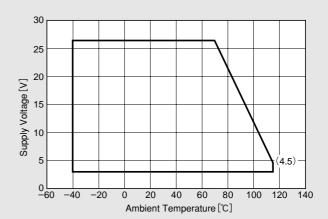
●(For reference only)Land Pattern (Unit:mm)



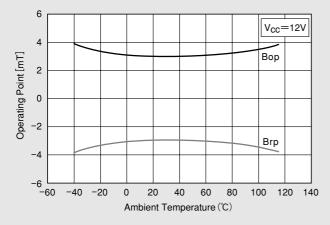


Note) The sensor center is located within the ϕ 0.3mm circle.

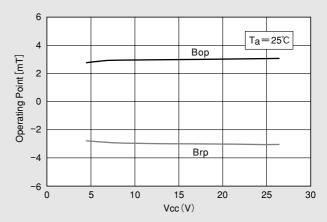
Supply Voltage



●Temparature Dependence of Bop. Brp



Supply Voltage Dependence of Bop. Brp



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