

EW-450B

Shipped in packet-tape reel(5000pcs/Reel)

EW-450B is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

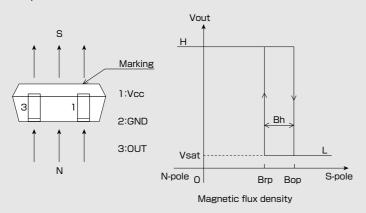
Unipolar Hall Effect Switch Supply Voltage 4.5~26.4V

Hall Element Continuous Excitation Standard Sensitivity
Bop:6mT

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



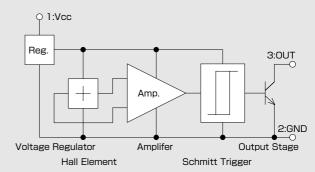


● Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Limit	Unit	
Supply Voltage	V _{cc}	26.4**	٧	
Output H Voltage	V _{o(off)}	V _{cc}	٧	
Output L Current	Isink	10	mA	
Operating Temperature Range	Topr	−40 ~ 115	°C	
Storage Temperature Range	Tstg	−40 ~ 125	°C	

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

•Functional Block Diagram



Another product type with pulled-up resistor(EW-452B). Please contact AKE to obtain the detail information.

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

Item	Symbol	bol Conditions		Тур.	Max.	Unit
Supply Voltage	V _{CC}		4.5	12	26.4	V
Operating Point	B _{OP}	V _{CC} =12V	3	6	10	mT
Release Point	B _{rp}	V _{CC} =12V	2.5	5	9.5	mT
Hysteresis	Bh	V _{CC} =12V	0.5	1.1	2.5	mT
Output Saturation Voltage	V _{sat}	V _{CC} =12V,OUT"L",I _{Sink} =10mA			0.4	٧
Output Leakage Curren	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]

h

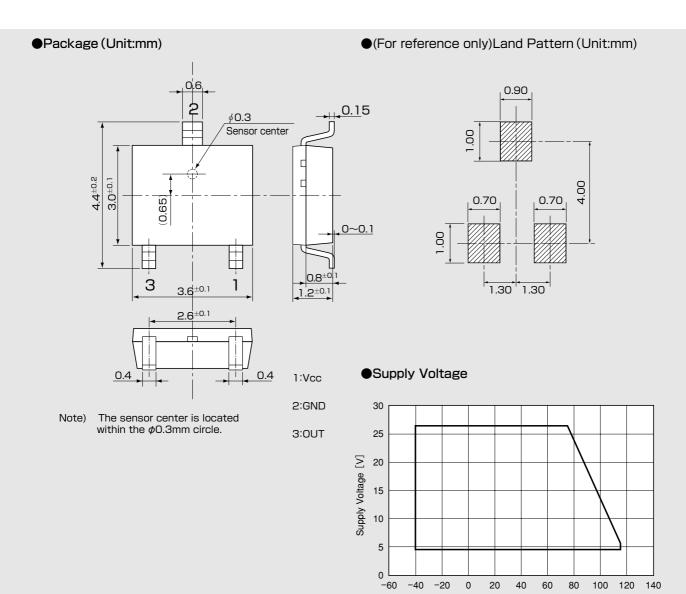
p

q

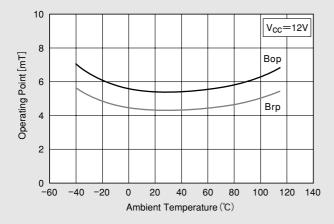
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●Temparature Dependence of Bop. Brp



Supply Voltage Dependence of Bop. Brp

Ambient Temperature $[^{\circ}C]$

