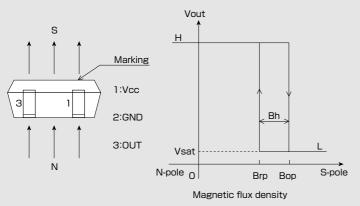
EW-450

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

EW-450 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 4.5~18V	Hall Element Continuous Excitation	Low Sensitivity Bop: 1 OmT	Output Open Collector	SMT	
Notice: It is requested to	o read and accept "IMPOF	TANT NOTICE" written o	n the back of the front cov	ver of this catalogue.		

Operational Characteristics





●Absolute Maximum Ratings (Ta=25℃)

Item	Symbol	Limit	Unit	
Supply Voltage	V _{cc}	18 ^(*)	V	
Output H Voltage	V _{o(off)}	V _{CC}	V	
Output L Current	Isink	15	mA	
Operating Temperature Range	Topr	$-20 \sim 115$	Ĉ	
Storage Temperature Range	Tstg	−40 ~ 125	Ĵ	

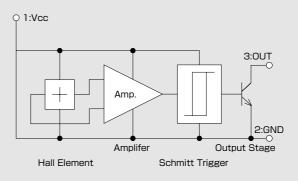
(*) Please refer to Supply Voltage Derating Curve.

●Magnetic and Electrical Characteristics (Ta=25℃)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Supply Voltage	V _{CC}		4.5	12	18	V
Operating Point	B _{OP}	V _{CC} =12V			20	mT
Release Point	B _{rp}	V _{CC} =12V	5			mT
Hysteresis	Bh	V _{CC} =12V	1.5			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	Icc	V _{CC} =12V,OUT"H"			8	mA
1 [mT]=10 [Gauss]						

1 [mT] =10 [Gauss]

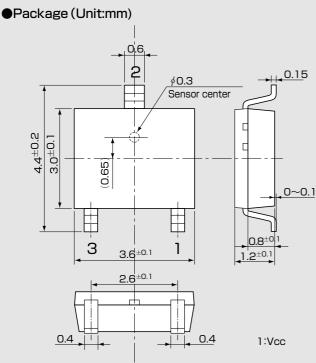
•Functional Block Diagram



ASAHI KASEI MICRODEVICES

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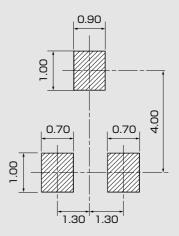


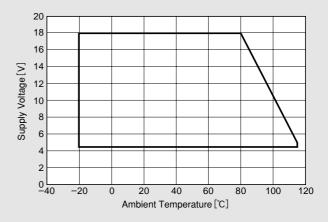
Note) The sensor center is located within the ϕ 0.3mm circle.

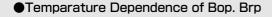


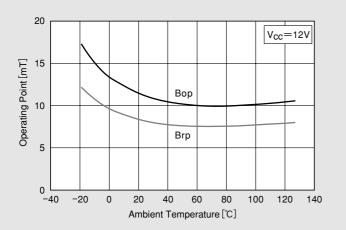
Supply Voltage

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

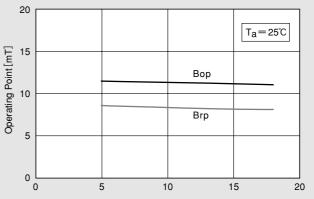








Supply Voltage Dependence of Bop. Brp



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