

EW-500

Shipped in bulk(500pcs/Bag)

EW-500 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 4.5~18V

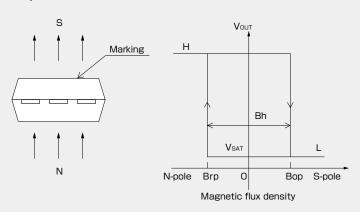
Hall Element Continuous Excitation

Low Sensitivity Bop: 10mT

Output Open Collector SIP

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)

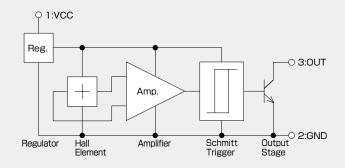
Item	Symbol	Min.	Max.	Unit	
Supply Voltage	Vcc	-0.3	18 (*)	V	
Output H Voltage	Vo(off)	-0.3	Vcc	٧	
Output L Current	Isink	0	15	mA	
Storage Temperature Range	Тѕтс	-40	+125	°C	

^(*) Please refer to Supply Voltage Derating Curve.

Recommended Operating Conditions

Item	Symbol	Min.	Тур.	Max.	Unit
Supply Voltage	Vcc	4.5	12	18	٧
Operating Temperature Range	Topr	-30	+25	+115	$^{\circ}$

Functional Block Diagram



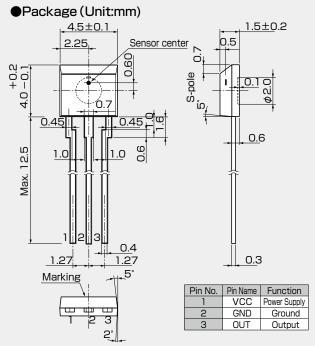
● Magnetic and Electrical Characteristics (Ta=25°C)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Operating Point	Вор	Vcc=12V	5	10	20	mT
Releasing Point	Brp	Vcc=12V	-20	-10	-5	mT
Hysteresis	Bh	Vcc=12V	10	20		mT
Output Saturation Voltage	VSAT	Vcc=12V,OUT"L", Isink =10mA			0.4	٧
Output Leakage Current	ILEAK	Vcc=12V,OUT"H",VouT=12V			1	μΑ
Supply Current	Icc	Vcc=12V,OUT"H"			8	mA

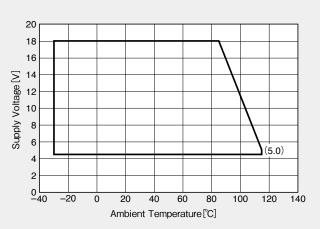
1 [mT] =10 [Gauss]

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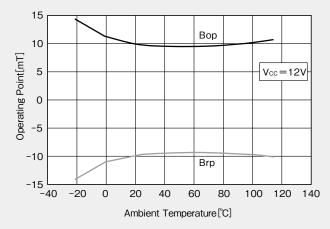
●Supply Voltage Derating Curve



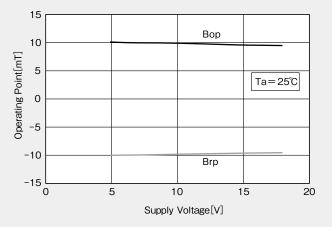
Note 1) The sensor center is located within the ϕ 0.3mm circle.

Note2) The sensor part is located 0.5mm(typ.) far from marking surface.

●Temperature Dependence of Bop. Brp



Supply Voltage Dependence of Bop. Brp



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