

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.

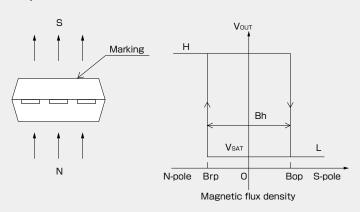
Bipolar Hall Effect Latch Supply Voltage 4.5~18V

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)

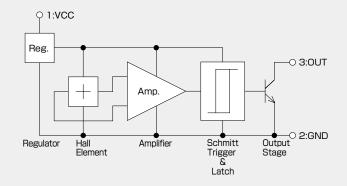
Item	Symbol	Min.	Max.	Unit	
Supply Voltage	Vcc	-0.3	18 (*)	٧	
Output H Voltage	Vo(off)	-0.3	Vcc	V	
Output L Current	Isink	0	15	mA	
Storage Temperature Range	Тѕтс	-40	+125	င	

(*) 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	င္

Functional Block Diagram



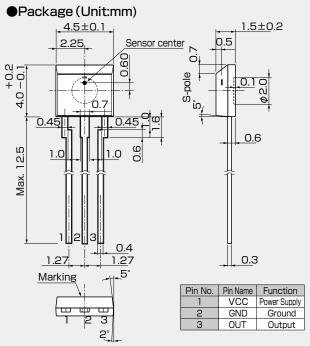
● Magnetic and Electrical Characteristics (Ta=25°C)

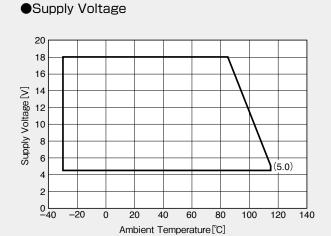
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Operating Point	Вор	Vcc=12V	5	10	20	mT
Releasing Point	Brp	Vcc=12V	-20	-10	-5	mT
Hysteresis	Bh	Vcc=12V	10	20		mT
Output Saturation Voltage	VSAT	Vcc=12V,OUT"L", Isink =10mA			0.4	٧
Output Leakage Current	ILEAK	Vcc=12V,OUT"H",VouT=12V			1	μΑ
Supply Current	Icc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

1 [mT] =10 [Gauss]

•Please be aware that our products are not intended for use in life support equipment, devices, or systems. Use of our products in such applications requires the advance written approval of our sales staff.

Certain applications using semiconductor devices may involve potential risks of personal injury, property damage or loss of life. In order to minimize these risks, adequate design and operating safeguards should be provided by the customer to minimize inherent or procedural hazards. Inclusion of our products in such applications is understood to be fully at the risk of the customer using our devices or systems.

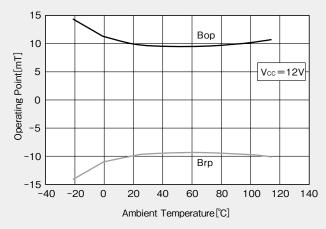




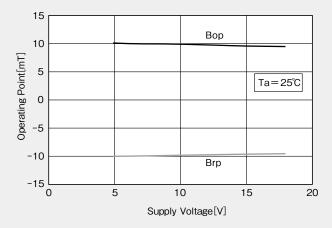
Note 1) The sensor center is located within the ϕ 0.3mm circle.

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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