EW-500

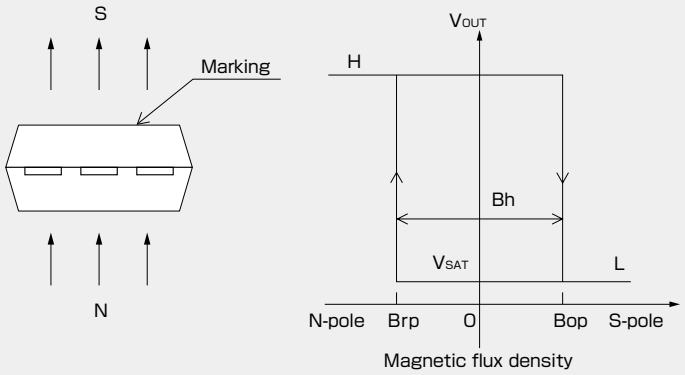
Shipped in bulk(500pcs/Bag)

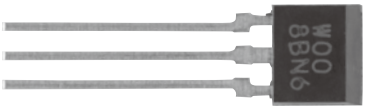
EW-500 is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

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



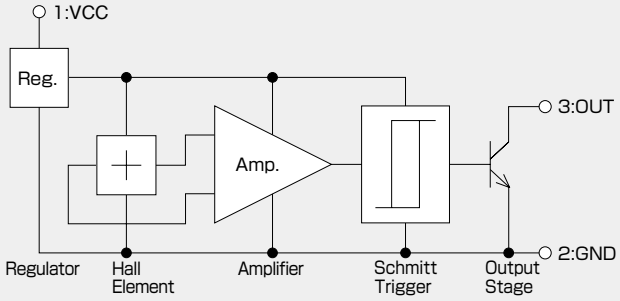


●Absolute Maximum Ratings(Ta=25℃)

Item	Symbol	Min.	Max.	Unit
Supply Voltage	V_{CC}	−0.3	18(*)	V
Output H Voltage	$V_{O(off)}$	−0.3	V_{CC}	V
Output L Current	I_{SINK}	0	15	mA
Storage Temperature Range	T_{STG}	−40	+125	℃

(*) Please refer to Supply Voltage Derating Curve.

●Functional Block Diagram



●Recommended Operating Conditions

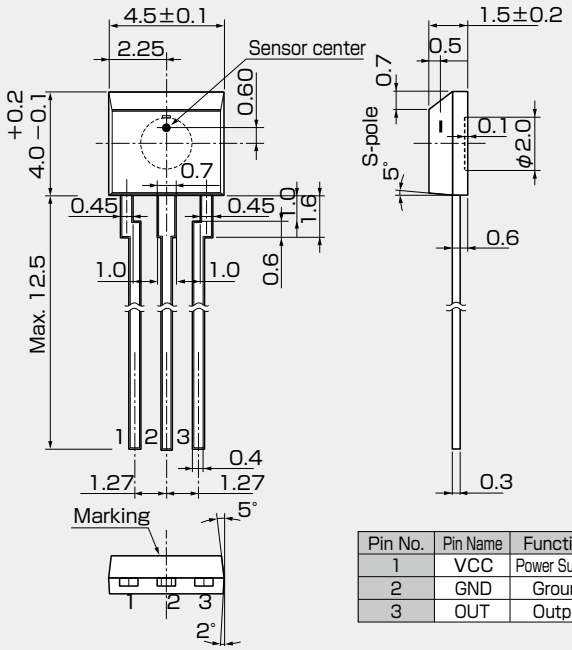
Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	V_{CC}	4.5	12	18	V
Operating Temperature Range	Topr	−30	+25	+115	℃

●Magnetic and Electrical Characteristics (Ta=25℃)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	Bop	V_{CC}=12V	5	10	20	mT
Releasing Point	Brp	V_{CC}=12V	−20	−10	−5	mT
Hysteresis	Bh	V_{CC}=12V	10	20		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	I_{CC}	V_{CC}=12V,OUT"H"			8	mA

1 [mT] =10 [Gauss]

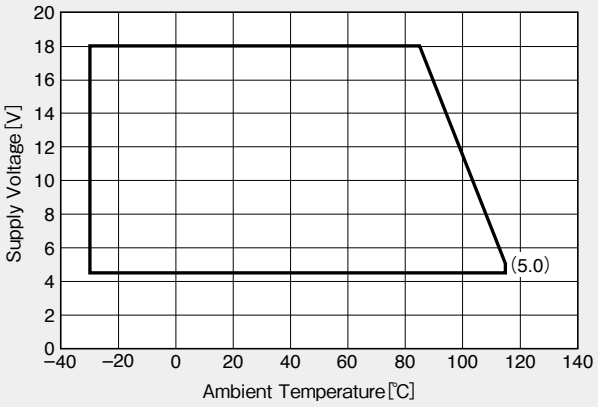
●Package (Unit:mm)



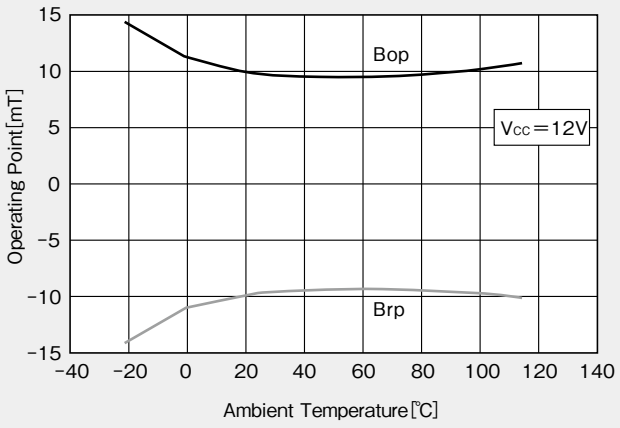
Pin No.	Pin Name	Function
1	VCC	Power Supply
2	GND	Ground
3	OUT	Output

Note1) The sensor center is located within the φ0.3mm circle.
Note2) The sensor part is located 0.5mm(typ.) far from marking surface.

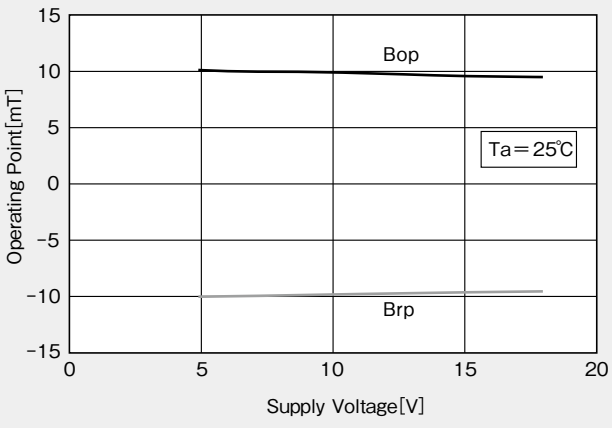
●Supply Voltage Derating Curve



●Temperature Dependence of Bop. Brp



●Supply Voltage Dependence of Bop. Brp



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