

EW-463

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

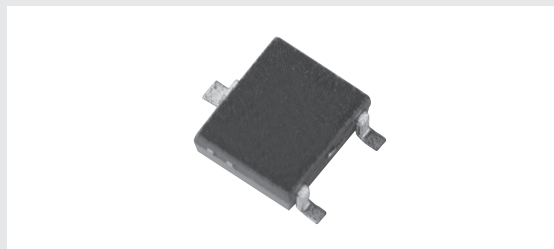
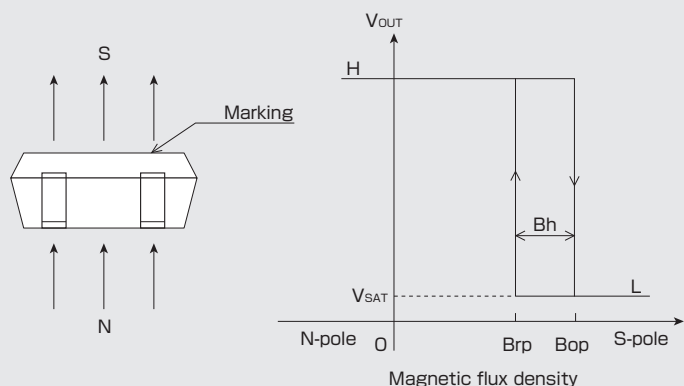
EW-463 is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

Unipolar Hall
Effect SwitchSupply Voltage
2.5~5.5VHall Element
Continuous
ExcitationHigh Sensitivity
Bop:3mTOutput
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)

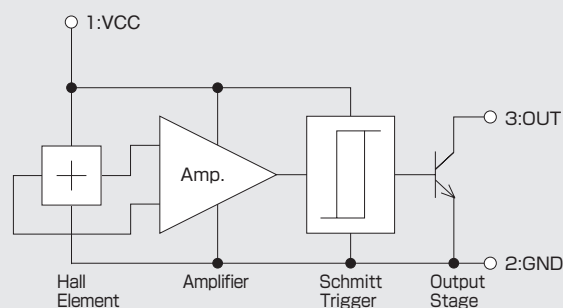
Item	Symbol	Min.	Max.	Unit
Supply Voltage	V_{CC}	-0.3	5.5 ^(*)	V
Output H Voltage	$V_{O(off)}$	-0.3	V_{CC}	V
Output L Current	I_{SINK}	0	15	mA
Storage Temperature Range	T_{STG}	-40	+125	°C

(*) Please refer to Supply Voltage Derating Curve.

●Recommended Operating Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	V_{CC}	2.5	3	5.5	V
Operating Temperature Range	T_{opr}	-30	+25	+115	°C

●Functional Block Diagram



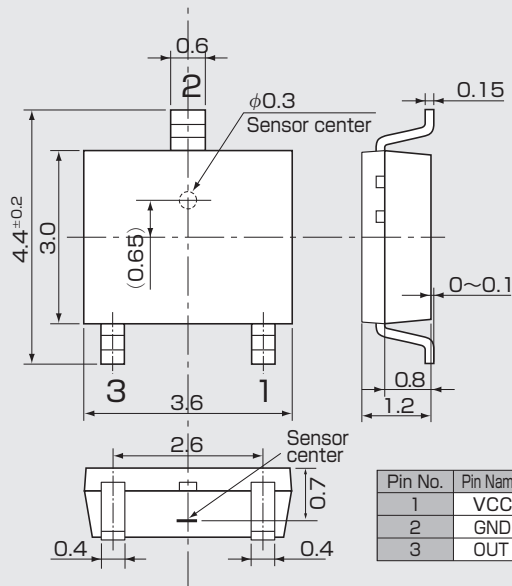
●Magnetic and Electrical Characteristics (Ta=25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	Bop	$V_{CC}=3V$		3	6	mT
Releasing Point	Brp	$V_{CC}=3V$	0.5	2		mT
Hysteresis	Bh	$V_{CC}=3V$	0.2	1		mT
Output Saturation Voltage	V_{SAT}	$V_{CC}=3V, OUT="L", I_{SINK}=10mA$			0.4	V
Output Leakage Current	I_{LEAK}	$V_{CC}=3V, OUT="H", V_{OUT}=3V$			1	μA
Supply Current	I_{CC}	$V_{CC}=3V, OUT="H"$			8	mA

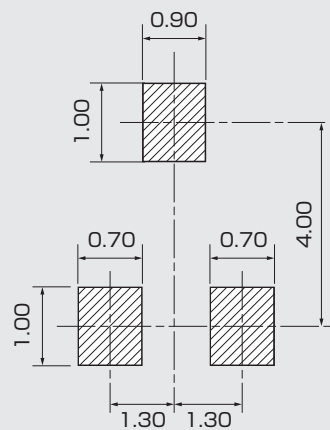
1 [mT] = 10 [Gauss]

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●Package (Unit:mm)

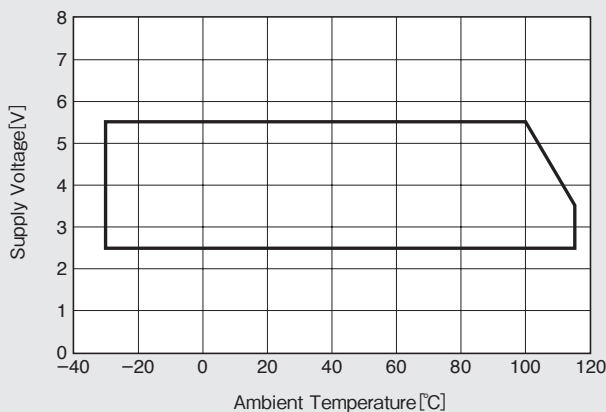


●(For reference only)Land Pattern (Unit:mm)

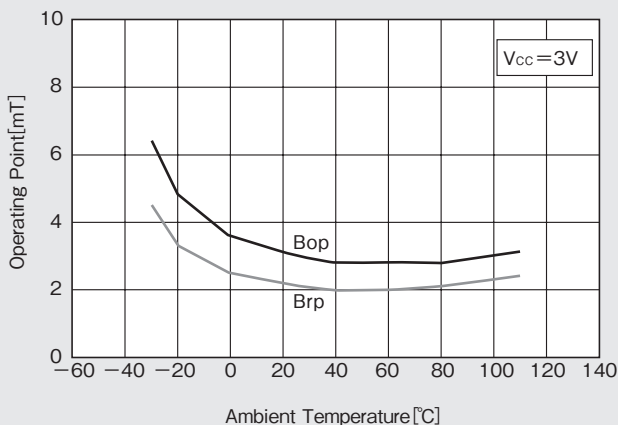


- Note1) The sensor center is located within the $\phi 0.3\text{mm}$ circle.
 Note2) The tolerances of dimensions with no mentions is $\pm 0.1\text{mm}$.
 Note3) The sensor part is located 0.7mm(typ.) far from marking surface.
 Note4) The metal portions on the package side (support lead) are connected to the internal circuits. The support lead should be isolate from the external circuit and the other support lead.

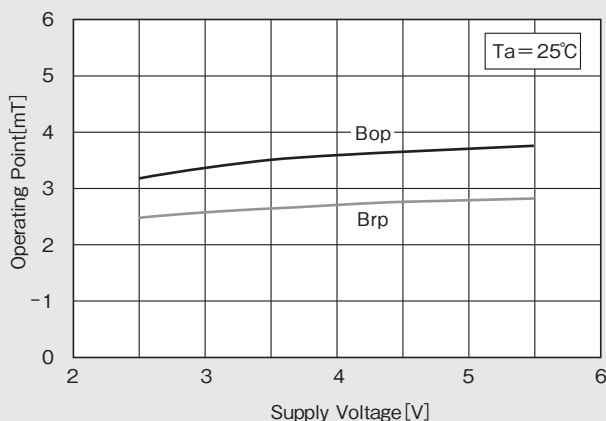
●Supply Voltage



●Temperature Dependence of Bop, Brp



●Supply Voltage Dependence of Bop, Brp



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February 21, 2013