

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.

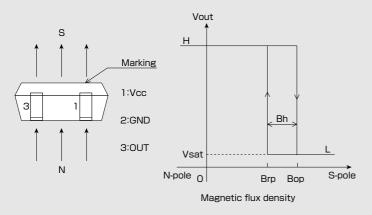
Unipolar Hall Effect Switch Supply Voltage 2.5~5.5V

Hall Element Continuous Excitation High Sensitivity Bop:3mT

Output 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



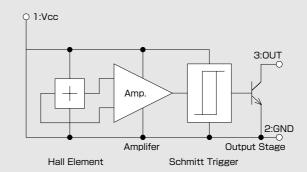


●Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Limit	Unit	
Supply Voltage	V _{cc}	5.5**	V	
Output H Voltage	V _{o(off)}	V _{cc}	V	
Output L Current	Isink	15	mA	
Operating Temperature Range	Topr	−30 ~ 115	°C	
Storage Temperature Range	Tstg	−40 ~ 125	°C	

 $^{(*) \ \}mathsf{Please} \ \mathsf{refer} \ \mathsf{to} \ \mathsf{Supply} \ \mathsf{Voltage} \ \mathsf{Derating} \ \mathsf{Curve}.$

•Functional Block Diagram



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

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Supply Voltage	V _{CC}		2.5	3	5.5	V
Operating Point	B _{OP}	V _{CC} =3V			6	mT
Release Point	B _{rp}	V _{CC} =3V	0.5			mT
Hysteresis	Bh	V _{CC} =3V	0.2			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	μΑ
Supply Current	I_{CC}	V _{CC} =3V,OUT"H"			8	mA

1 [mT] =10 [Gauss]

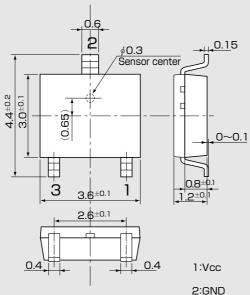
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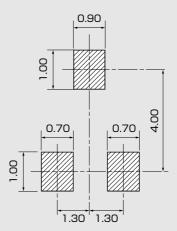
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●Package (Unit:mm)

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

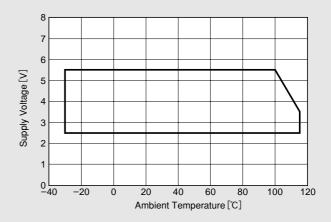




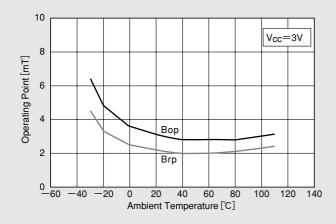
Note1) The sensor center is located within the ϕ 0.3mm circle. Note2) The metal portions on the package side (support lead) are connected to the internal circuits. The support lead should be isolate from the external circuit and the other support lead.

Supply Voltage

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●Temparature Dependence of Bop. Brp



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reliability.

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