



EW-632

Shipped in packet-tape reel(3000pcs/Reel)

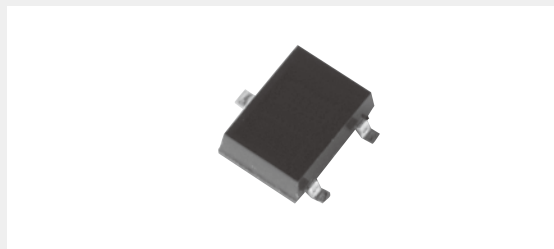
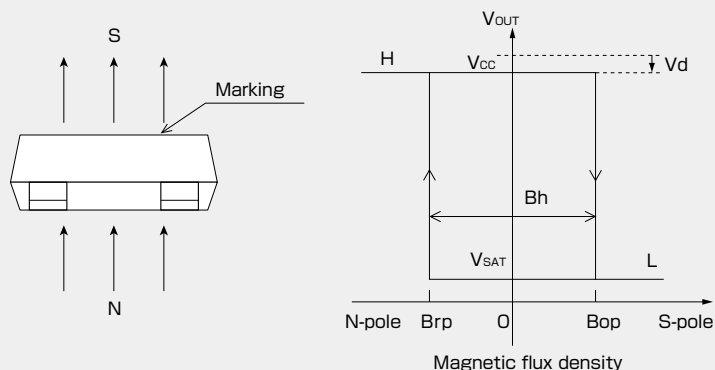
EW-632 is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

Bipolar Hall
Effect LatchSupply Voltage
2.2~18VHall Element
Continuous
ExcitationHigh Sensitivity
Bop:3mTOutput
Pull-up resistor

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)

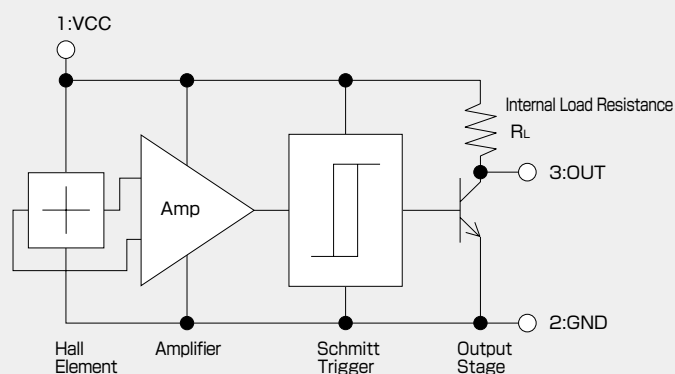
Item	Symbol	Min.	Max.	Unit
Supply Voltage	V _{CC}	-0.3	18 ^(*)	V
Output H Voltage	V _{O(off)}	-0.3	V _{CC}	V
Output L Current	I _{SINK}	0	12	mA
Storage Temperature Range	T _{STG}	-40	+125	°C

(*) Please refer to Supply Voltage Derating Curve.

●Recommended Operating Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	V _{CC}	2.2	12	18	V
Operating Temperature Range	T _{opr}	-30	+25	+115	°C

●Functional Block Diagram



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

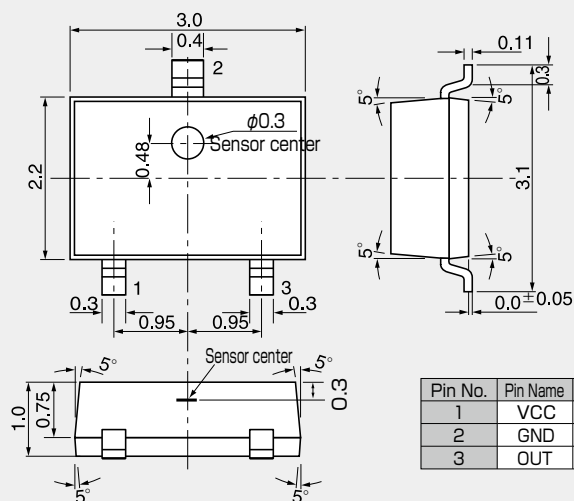
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	B _{op}	V _{CC} =12V		3	6	mT
Releasing Point	B _{rp}	V _{CC} =12V	-6	-3		mT
Hysteresis	B _h	V _{CC} =12V		6		mT
Output Saturation Voltage	V _{SAT}	V _{CC} =12V, OUT="L"			0.4	V
Supply Current	I _{CC}	V _{CC} =12V, OUT="H"			8	mA
Output Down Voltage	V _d	V _{CC} =12V, OUT="H"			20	mV
Internal Load Resistance	R _L		6		14	kΩ

1 [mT] = 10 [Gauss]

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●Package (Unit:mm)

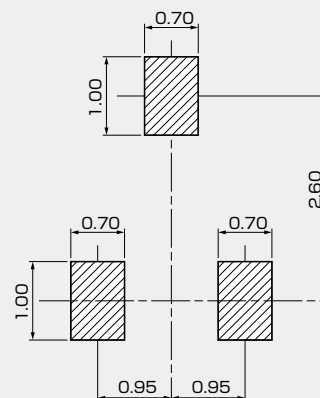


Note1) The sensor center is located within the $\phi 0.3\text{mm}$ circle.

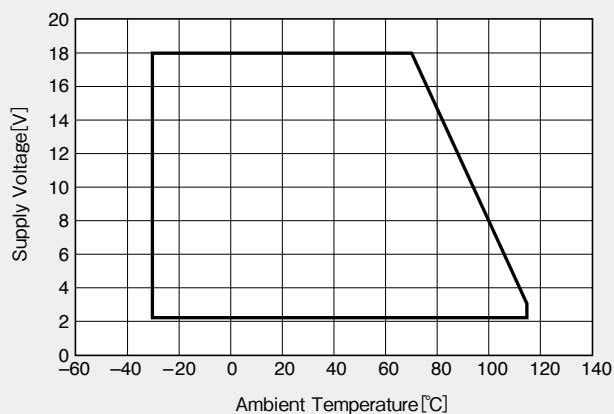
Note2) The tolerances of dimensions with no mentions is ± 0.1 mm.

Note3) The sensor part is located 0.3mm(typ.) far from marking surface.

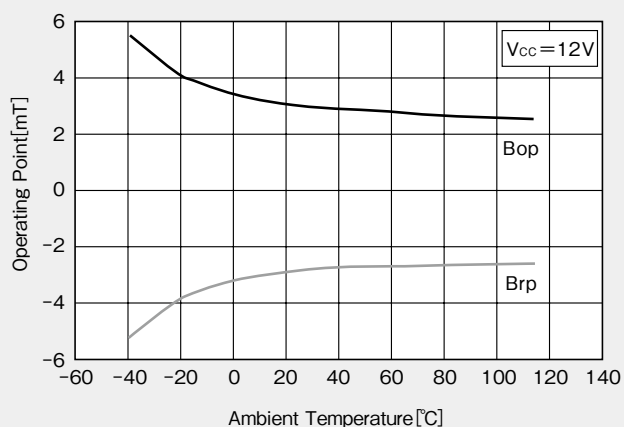
●(For reference only)Land Pattern (Unit:mm)



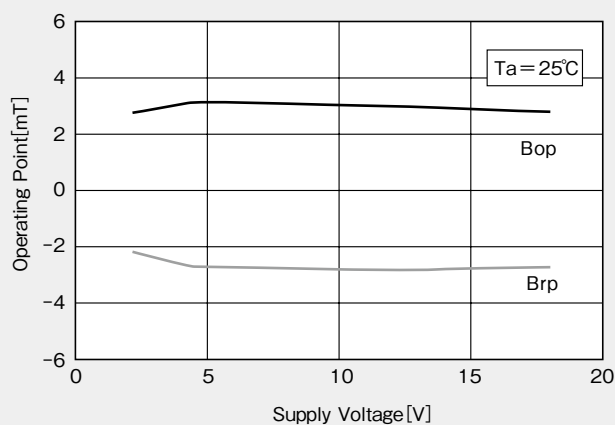
●Supply Voltage Derating Curve



●Temperature Dependence of Bop. Brp



●Supply Voltage Dependence of Bop. Brp



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