

# EW-632

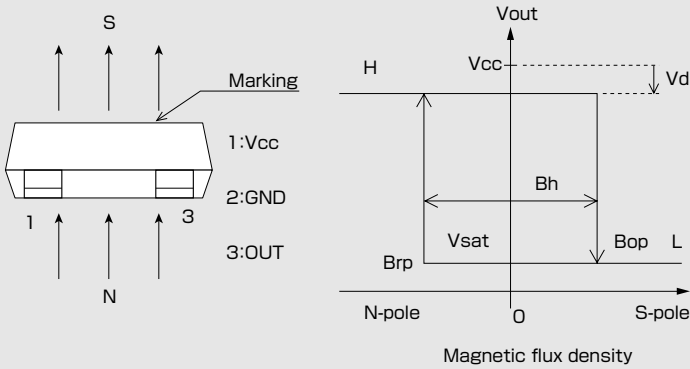
Shipped in packet-tape reel(3000pcs/Reel)

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

Bipolar Hall Effect Latch	Supply Voltage 2.2~18V	Hall Element Continuous Excitation	High Sensitivity Bop:3mT	Output With Pull-up Resistor	SMT
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Notice:It is requested to read and accept "IMPORTANT NOTICE" written on the back of the front cover of this catalogue.

## Operational Characteristics

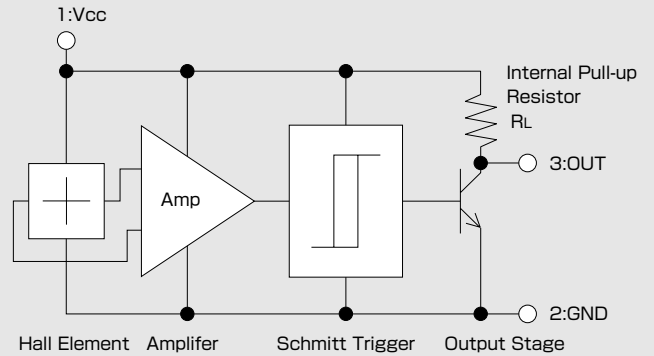


## Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Limit	Unit
Supply Voltage	V <sub>CC</sub>	18 <sup>(*)</sup>	V
Output H Voltage	V <sub>O(off)</sub>	V <sub>CC</sub>	V
Output L Current	I <sub>sink</sub>	12	mA
Operating Temperature Range	Topr	-30 ~ 115	°C
Storage Temperature Range	Tstg	-40 ~ 125	°C

(\*) Please refer to Supply Voltage Derating Curve.

## Functional Block Diagram



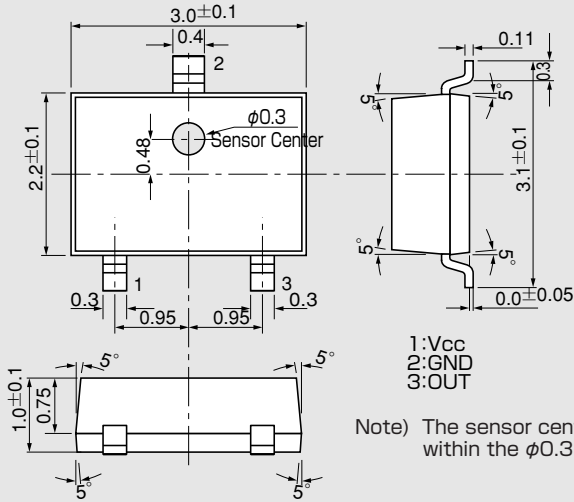
## Magnetic and Electrical Characteristics (Ta=25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	V <sub>CC</sub>		2.2	12	18	V
Operating Point	B <sub>OP</sub>	V <sub>CC</sub> =12V		3	6	mT
Release Point	B <sub>rp</sub>	V <sub>CC</sub> =12V	-6	-3		mT
Hysteresis	B <sub>h</sub>	V <sub>CC</sub> =12V		6		mT
Output Saturation Voltage	V <sub>sat</sub>	V <sub>CC</sub> =12V, OUT="L"			0.4	V
Supply Current	I <sub>CC</sub>	V <sub>CC</sub> =12V, OUT="H"			8	mA
Output Down Voltage	V <sub>d</sub>	V <sub>CC</sub> =12V, OUT="H"			20	mV
Internal Load Resistance	R <sub>L</sub>		6		14	kΩ

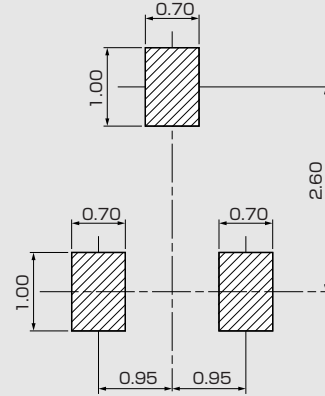
1 [mT] = 10 [Gauss]

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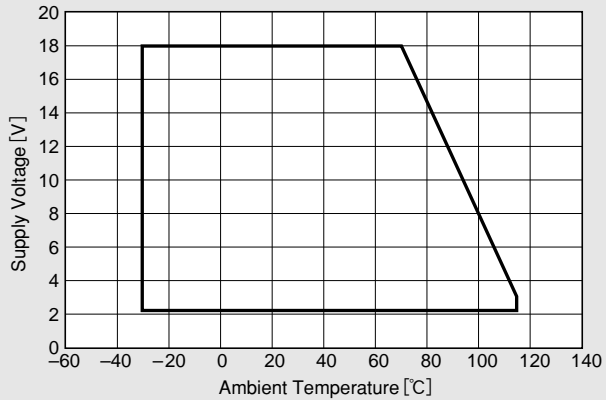
●Package (Unit:mm)



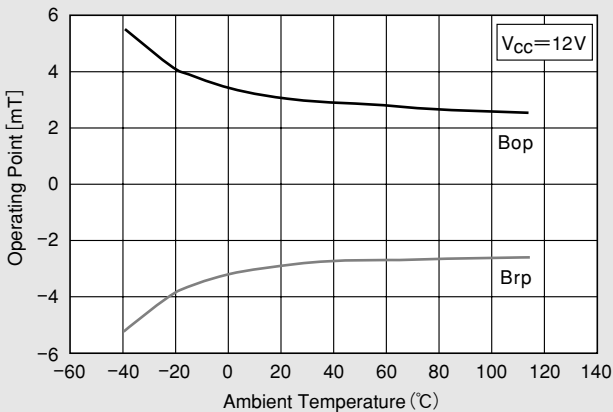
●(For reference only)Land Pattern (Unit:mm)



●Supply Voltage



●Temperature Dependence of Bop, Brp



●Supply Voltage Dependence of Bop, Brp

