

EW-750B

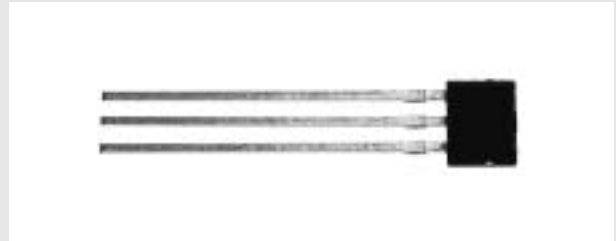
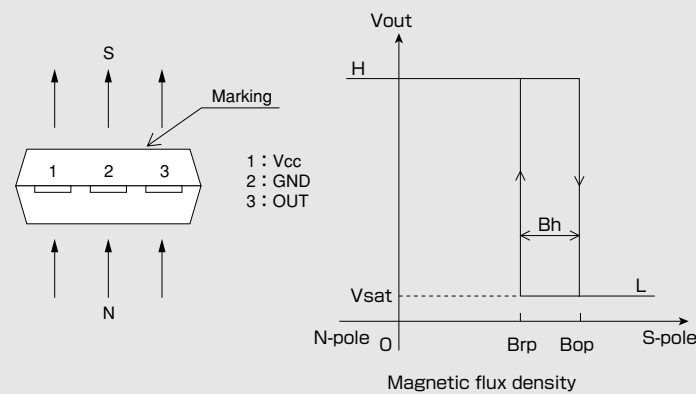
Shipped in bulk(500pcs/Bag)

EW-750B 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 3~26.4V | Hall Element Continuous Excitation | Standard Sensitivity Bop:6mT | 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

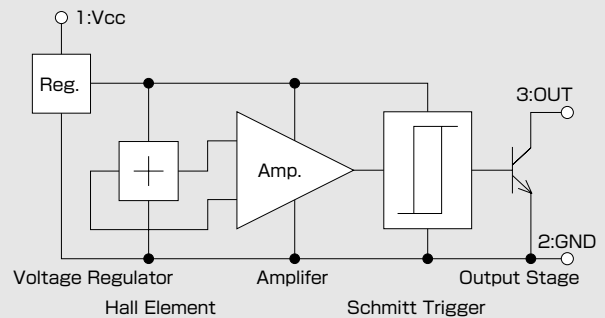


Absolute Maximum Ratings (Ta=25°C)

| Item | Symbol | Limit | Unit |
|-----------------------------|--------------|-----------|------|
| Supply Voltage | V_{CC} | 26.4(*) | V |
| Output H Voltage | $V_{O(off)}$ | V_{CC} | V |
| Output L Current | I_{sink} | 10 | mA |
| Operating Temperature Range | T_{opr} | -40 ~ 115 | °C |
| Storage Temperature Range | T_{stg} | -40 ~ 125 | °C |

(*) Please refer to Supply Voltage Derating Curve.

Functional Block Diagram



Another product type with pulled-up resistor(EW-752B). Please contact AKM to obtain the detail information.

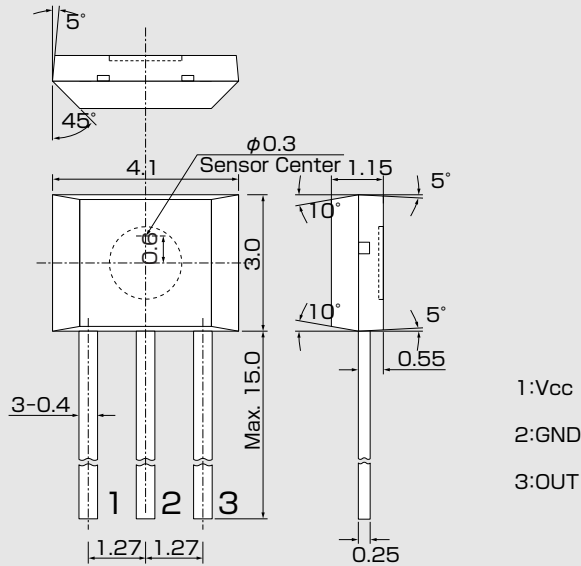
Magnetic and Electrical Characteristics (Ta=25°C)

| Item | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|---------------------------|------------|-------------------------------------|------|------|------|---------|
| Supply Voltage | V_{CC} | | 3 | 12 | 26.4 | V |
| Operating Point | B_{OP} | $V_{CC}=12V$ | 3 | 6 | 10 | mT |
| Release Point | B_{rp} | $V_{CC}=12V$ | 2.5 | 5 | 9.5 | mT |
| Hysteresis | B_h | $V_{CC}=12V$ | 0.5 | 1.1 | 2.5 | 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} | $V_{CC}=12V, OUT"H"$ | | 5 | 6 | mA |

1 [mT] = 10 [Gauss]

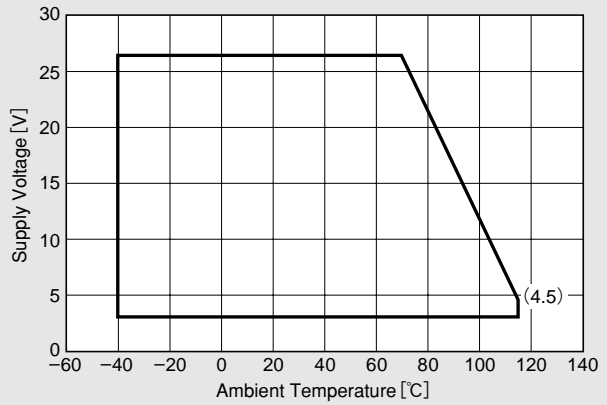
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●Package (Unit:mm)

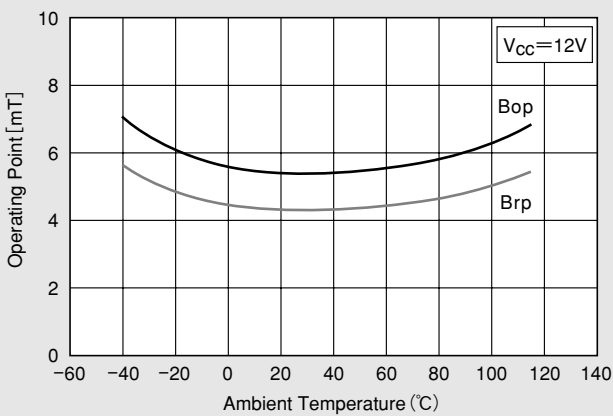


Note) The sensor center is located within the $\phi 0.3$ mm circle.

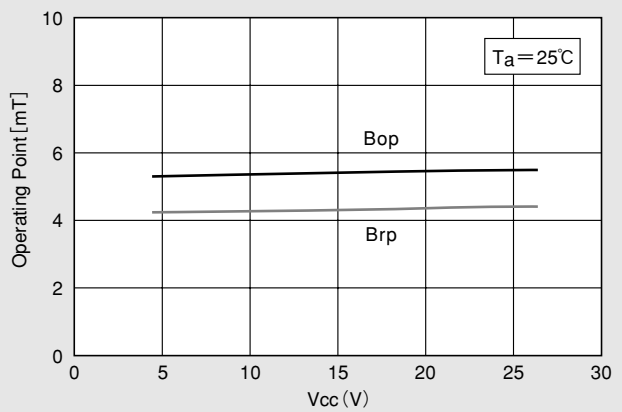
●Supply Voltage



●Temperature Dependence of Bop, Brp



●Supply Voltage Dependence of Bop, Brp



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April 4, 2012