EW-432

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

EW-432 is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

### Operational Characteristics

- **Marking**
  - 1: Vcc
  - 2: GND
  - 3: OUT

- **Magnetic flux density**
  - N-pole
  - S-pole

- **H**
- **Vcc**
- **Bh**
- **Vd**

### Absolute Maximum Ratings (Ta=25°C)

<table>
<thead>
<tr>
<th>Item</th>
<th>Symbol</th>
<th>Limit</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>Vcc</td>
<td>18</td>
<td>V</td>
</tr>
<tr>
<td>Output H Voltage</td>
<td>Vout</td>
<td>Vcc</td>
<td>V</td>
</tr>
<tr>
<td>Output L Current</td>
<td>Iink</td>
<td>12</td>
<td>mA</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>Top</td>
<td>-30 ~ 115</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>Tstg</td>
<td>-40 ~ 125</td>
<td>°C</td>
</tr>
</tbody>
</table>

(*Please refer to Supply Voltage Derating Curve.*

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Symbol</th>
<th>Conditions</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>Vcc</td>
<td></td>
<td>2.2</td>
<td>12</td>
<td>18</td>
<td>V</td>
</tr>
<tr>
<td>Operating Point</td>
<td>Bop</td>
<td>Vcc=12V</td>
<td>3</td>
<td>6</td>
<td></td>
<td>mT</td>
</tr>
<tr>
<td>Release Point</td>
<td>Bp</td>
<td>Vcc=12V</td>
<td>-6</td>
<td>-3</td>
<td></td>
<td>mT</td>
</tr>
<tr>
<td>Hysteresis</td>
<td>Bh</td>
<td>Vcc=12V</td>
<td>6</td>
<td></td>
<td></td>
<td>mT</td>
</tr>
<tr>
<td>Output Saturation Voltage</td>
<td>Vsat</td>
<td>Vcc=12V,OUT&quot;L&quot;</td>
<td>0.4</td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Supply Current</td>
<td>Icc</td>
<td>Vcc=12V,OUT&quot;H&quot;</td>
<td>8</td>
<td></td>
<td></td>
<td>mA</td>
</tr>
<tr>
<td>Output Down Voltage</td>
<td>Vd</td>
<td>Vcc=12V,OUT&quot;H&quot;</td>
<td>20</td>
<td></td>
<td></td>
<td>mV</td>
</tr>
<tr>
<td>Internal Load Resistance</td>
<td>RL</td>
<td></td>
<td>6</td>
<td></td>
<td>14</td>
<td>kΩ</td>
</tr>
</tbody>
</table>

1 (mT) = 10 (Gauss)
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**Package (Unit:mm)**

![Package Diagram](image)

**Note:** The sensor center is located within the ø0.3mm circle.

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

![Land Pattern Diagram](image)

**Supply Voltage**

![Supply Voltage Graph](image)

**Temperature Dependence of Bop. Brp**

![Temperature Dependence Graph](image)

**Supply Voltage Dependence of Bop. Brp**

![Supply Voltage Dependence Graph](image)
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