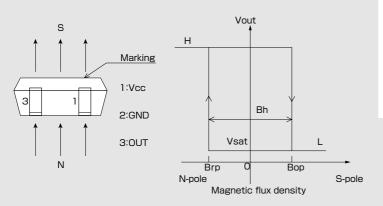


Shipped in packet-tape reel(5000pcs/Reel)

EW-400 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 4.5~18V	Hall Element Continuous Excitation	Low Sensitivity Bop:10mT	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℃)

Item	Symbol	Limit	Unit	
Supply Voltage	V _{CC}	18 ^(*)	V	
Output H Voltage	V _{o(off)}	V _{cc}	V	
Output L Current	Isink	15	mA	
Operating Temperature Range	Topr	−20 ~ 115	°C	
Storage Temperature Range	Tstg	-40 ~ 125	Ĵ	

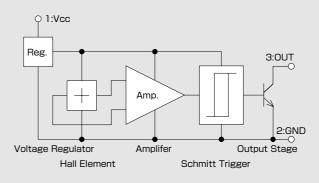
(*) Please refer to Supply Voltage Derating Curve.

●Magnetic and Electrical Characteristics (Ta=25℃)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Supply Voltage	V _{CC}		4.5	12	18	V
Operating Point	B _{OP}	V _{CC} =12V	5		20	mT
Release Point	B _{rp}	V _{CC} =12V	-20		-5	mT
Hysteresis	Bh	V _{CC} =12V	10			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	Icc	V _{CC} =12V,OUT"H"			8	mA
1[mT]=10[Gauss]						

1 [mT] =10 [Gauss]

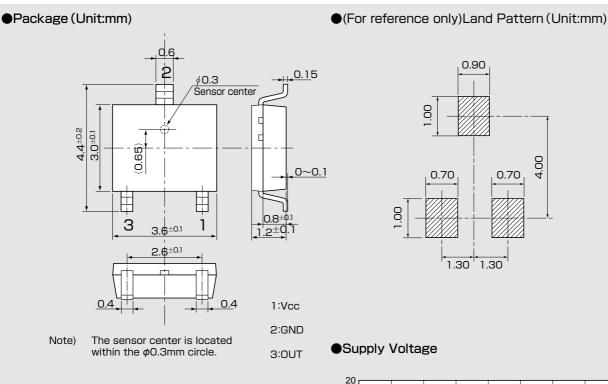
Functional Block Diagram



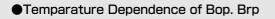
ASAHI KASEI MICRODEVICES

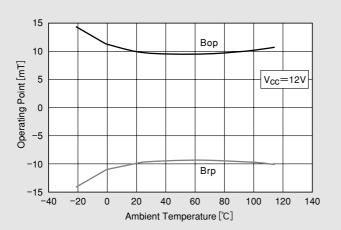
•Please be aware that our products are not intended for use in life support equipment, devices, or systems. Use of our products in such applications requires the

advance written approval of our sales staff. Certain applications using semiconductor devices may involve potential risks of personal injury, property damage, or loss of life. In order to minimize these risks, adequate design and operating safeguards should be provided by the customer to minimize inherent or procedural hazards. Inclusion of our products in such applications is understood to be fully at the risk of the customer using our devices or systems.

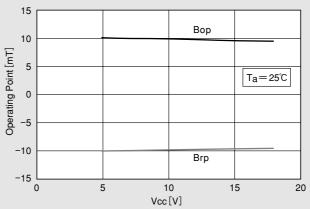


20 18 16 Supply Voltage [V] 14 12 10 8 6 4 2 <u>0</u> _40 -200 20 40 60 80 100 120 Ambient Temperature [°C]





Supply Voltage Dependence of Bop. Brp



С

р

IMPORTANT NOTICE

- These products and their specifications are subject to change without notice. When you consider any use or application of these products, please make inquiries the sales office of ASAHI KASEI MICRODEVICES CORPORATION (AKM) or authorized distributors as to current status of the products.
- AKM assumes no liability for infringement of any patent, intellectual property, or other rights in the application or use of any information contained herein.
- Any export of these products, or devices or systems containing them, may require an
 export license or other official approval under the law and regulations of the country of
 export pertaining to customs and tariffs, currency exchange, or strategic materials.
- AKM products are neither intended nor authorized for use as critical components_{Note1}) in any safety, life support, or other hazard related device or system_{Note2}), and AKM assumes no responsibility for such use, except for the use approved with the express written consent by Representative Director of AKM. As used here:

Note1) A critical component is one whose failure to function or perform may reasonably be expected to result, whether directly or indirectly, in the loss of the safety or effectiveness of the device or system containing it, and which must therefore meet very high standards of performance and reliability.

Note2) A hazard related device or system is one designed or intended for life support or maintenance of safety or for applications in medicine, aerospace, nuclear energy, or other fields, in which its failure to function or perform may reasonably be expected to result in loss of life or in significant injury or damage to person or property.

 It is the responsibility of the buyer or distributor of AKM products, who distributes, disposes of, or otherwise places the product with a third party, to notify such third party in advance of the above content and conditions, and the buyer or distributor agrees to assume any and all responsibility and liability for and hold AKM harmless from any and all claims arising from the use of said product in the absence of such notification.

ASAHI KASEI MICRODEVICES CORPORATION

Headquarters

1-105 Kanda, Jinbocho, Chiyoda-ku, Tokyo 101-8101, Japan

TEL:+81-3-3296-3961 FAX:+81-3-3296-3962

Osaka Office

3-23 Nakanoshima 3-Chome, Kita-ku,Osaka 530-8205,Japan

TEL:+81-6-7636-3133 FAX:+81-6-7636-3132

URL http://www.asahi-kasei.co.jp/ake/en/

Europe Office

Market House, 19/21 Market Place, Wokingham, Berkshire, RG40 1AP, U.K.

TEL:+44-118-979-5777 FAX:+44-118-979-7885

URL http://www.akm.com/

Shanghai Office

Room2321,Shanghai Central Plaza,381 Huaihai Zhong Road,Shanghai 200020,China TEL:+86-21-6391-6111 FAX:+86-21-6391-6686

URL http://www.akm.com/

Seoul Office

8th fi.,KTP B/D,27-2 Yoido-dong,Youngdungpo-gu,Seoul 150-742,Korea TEL:+82-2-3775-0990 FAX:+82-2-3775-1991

AKM Semiconductor,Inc

```
Western US Sales

1731 Technology Drive Suite 500 San Jose,CA95110,USA

TEL: +1-408-436-8580 FAX: +1-408-436-7591

Eastern US Sales

629 Bamford Road Cherry Hill,NJ 08003,USA

TEL: +1-856-424-7211 FAX: +1-856-424-7344

URL http://www.akm.com/
```