EZ-410

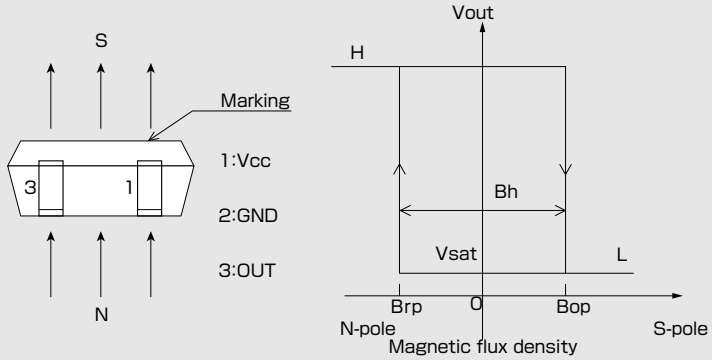
Shipped in packet-tape reel(5000pcs/Reel)

EZ-410 is composed of an InAs Hall Element and a signal processing IC chip in a package

Bipolar Hall Effect Latch	Supply Voltage 3.8~24V	Hall Element Continuous Excitation	Standard Sensitivity Bop:5mT	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

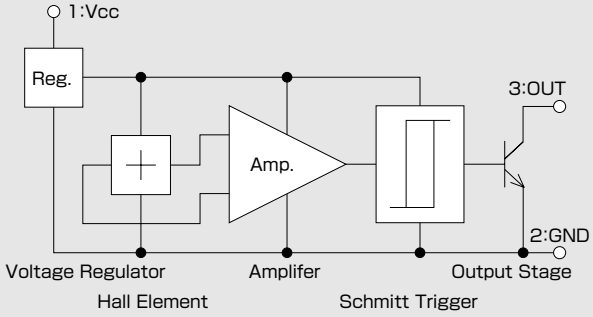


●Absolute Maximum Ratings (Ta=25℃)

Item	Symbol	Limit	Unit
Supply Voltage	V_{CC}	24(*)	V
Output H Voltage	$V_{O(off)}$	V_{CC}	V
Output L Current	Isink	10	mA
Operating Temperature Range	Topr	−40 ～ 125	℃
Storage Temperature Range	Tstg	−40 ～ 150	℃

(*) Please refer to Supply Voltage Derating Curve.

●Functional Block Diagram



●Electrical Characteristics① (Ta=25℃, Vcc=12V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	V_{CC}		3.8	12	24	V
Output Leakage Current	I_{leak}	OUT="H"			1	μA
Output Saturation Voltage	V_{sat}	OUT="L", I_{out}=10mA			0.4	V
Supply Current	I_{CC}	OUT="H"		5	9	mA

●Electrical Characteristics② (Ta=−40~125℃, Vcc=3.8~24V)

項 目	記号	測 定 条 件	最小	標準	最大	単位
Supply Voltage	V_{CC}		3.8	12	24(*1)	V
Output Leakage Current	I_{leak}	OUT="H"			10	μA
Output Saturation Voltage	V_{sat}	OUT="L"			0.8	V
Supply Current	I_{CC}	OUT="H"		5	9	mA

(*) Please refer to Supply Voltage Derating Curve.

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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

•This product contains galium arsenide(GaAs).Handling and discarding precsutions required.

●Magnetic Characteristics① (Ta=25℃, Vcc=12V)

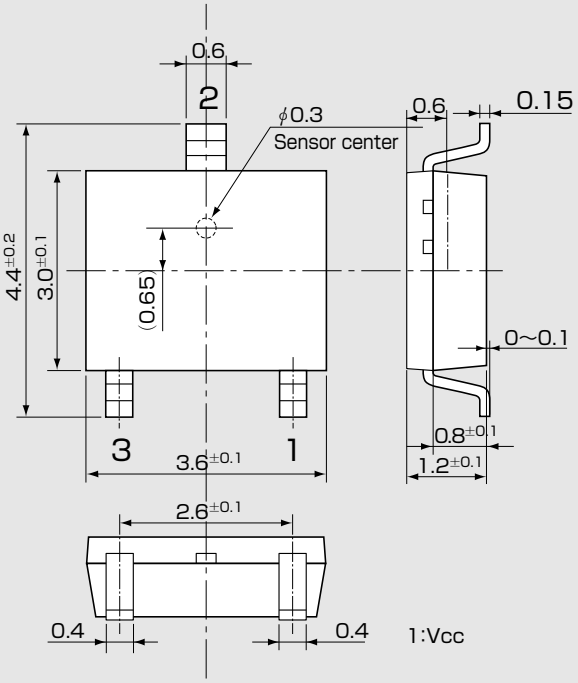
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	B_{op}		1	4.2	7.5	mT
Release Point	B_{rp}		−7.5	−4.2	−1	mT
Hysteresis	B_h		2	8.4	15	mT

●Magnetic Characteristics② (Ta=−40~125℃, Vcc=3.8~24V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	B_{op}		0.5	4.2	8.5	mT
Release Point	B_{op}		−8.5	−4.2	−0.5	mT
Hysteresis	B_{op}		1	8.4	17	mT

(＊) Please refer to Supply Voltage Derating Curve.

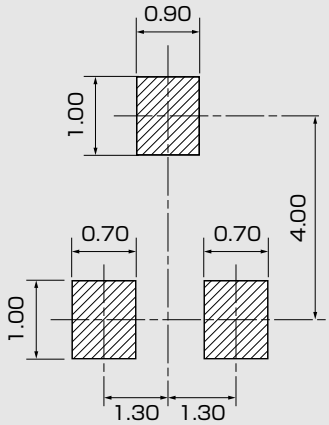
●Package (Unit:mm)



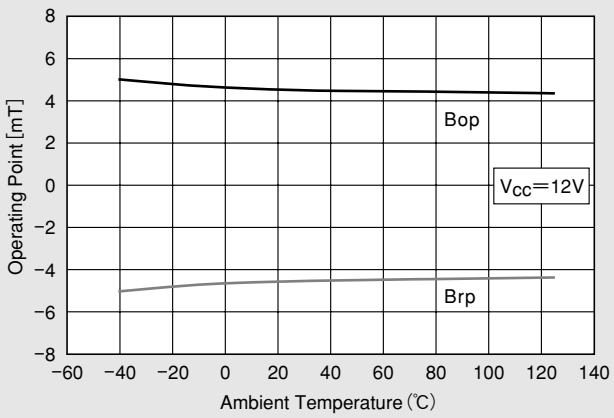
1:Vcc
2:GND
3:OUT

Note) The sensor center is located within the ϕ0.3mm circle.

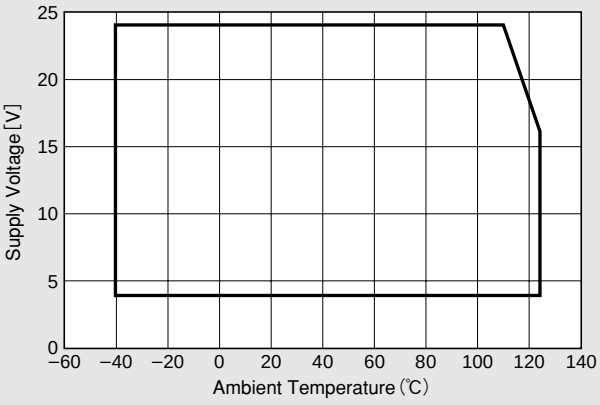
●(For reference only)Land Pattern (Unit:mm)



●Temparature Dependence of Bop. Brp



●Supply Voltage



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April 4, 2012