

EZ-410

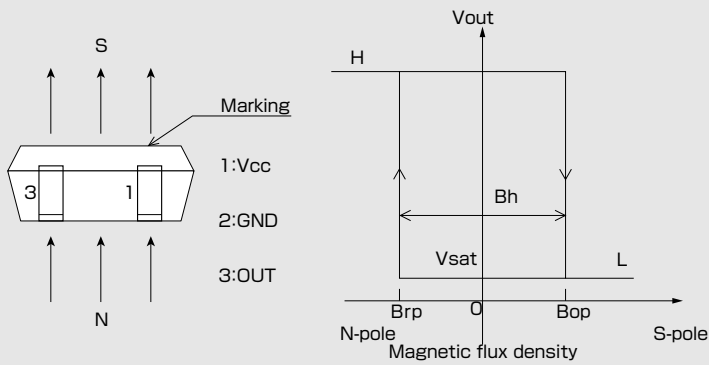
Shipped in packet-tape reel(5000pcs/Reel)

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
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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

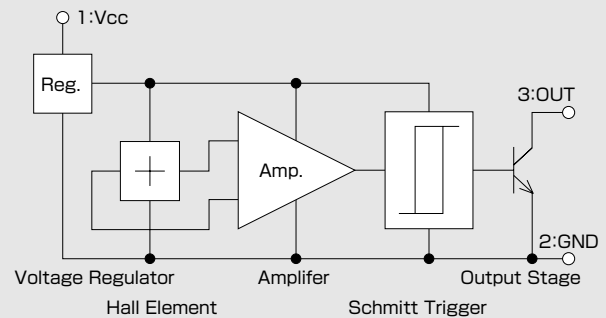


●Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Limit	Unit
Supply Voltage	V_{CC}	24 ^(*)	V
Output H Voltage	$V_{O(off)}$	V_{CC}	V
Output L Current	I_{sink}	10	mA
Operating Temperature Range	T_{opr}	-40 ~ 125	°C
Storage Temperature Range	T_{stg}	-40 ~ 150	°C

(*) Please refer to Supply Voltage Derating Curve.

●Functional Block Diagram



●Electrical Characteristics① (Ta=25°C, 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°C, 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 ^(*)	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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●Magnetic Characteristics① (Ta=25°C, Vcc=12V)

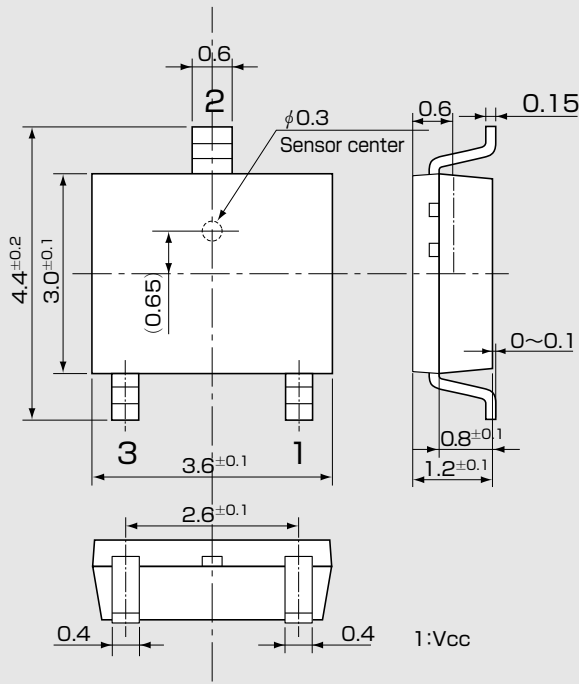
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	B _{op}		1	4.2	7.5	mT
Release Point	B _{rp}		-7.5	-4.2	-1	mT
Hysteresis	B _h		2	8.4	15	mT

●Magnetic Characteristics② (Ta=-40~125°C, 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 _{rp}		-8.5	-4.2	-0.5	mT
Hysteresis	B _{op}		1	8.4	17	mT

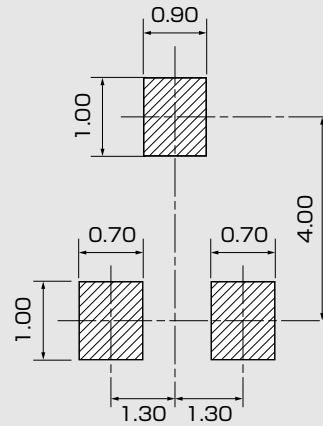
(*) Please refer to Supply Voltage Derating Curve.

●Package (Unit:mm)

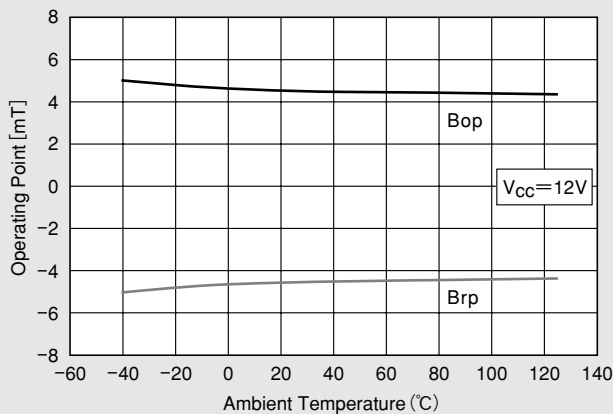


Note) The sensor center is located within the φ0.3mm circle.
1:Vcc
2:GND
3:OUT

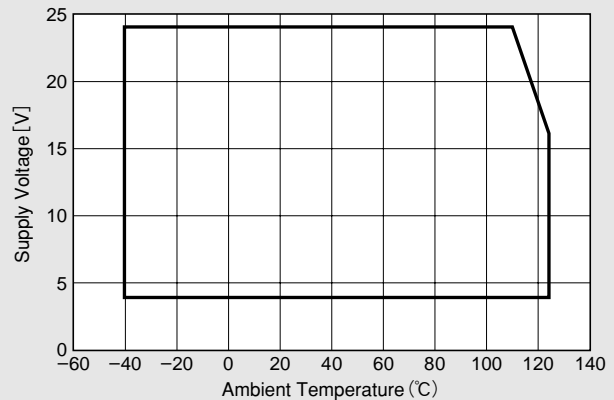
●(For reference only)Land Pattern (Unit:mm)



●Temperature Dependence of Bop, Brp



●Supply Voltage



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April 4, 2012