

EZ-410

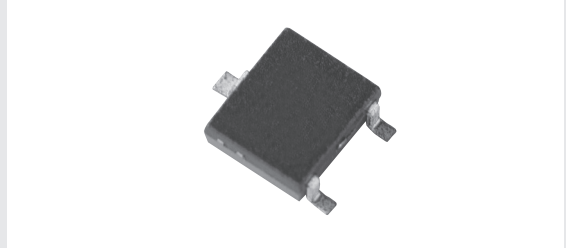
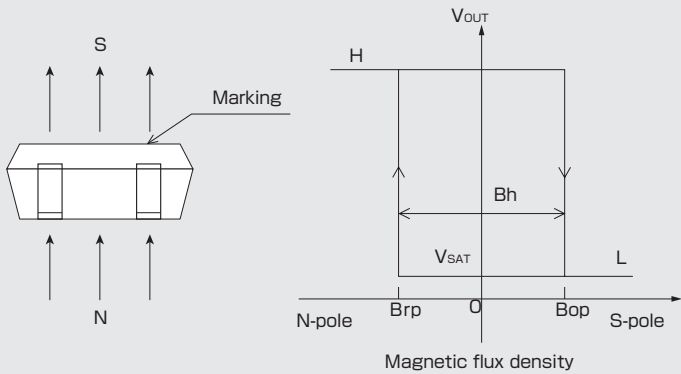
Shipped in packet-tape reel(5000pcs/Reel)

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	Min.	Max.	Unit
Supply Voltage	V _{CC}	-0.3	24 ^(*)	V
Output H Voltage	V _{O(off)}	-0.3	V _{CC}	V
Output L Current	I _{SINK}	0	10	mA
Storage Temperature Range	T _{STG}	-40	+150	°C

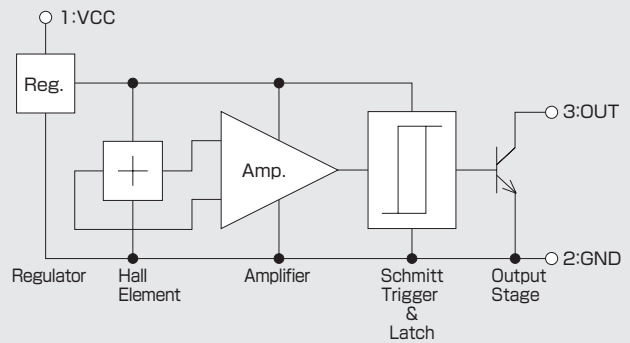
(*) Please refer to Supply Voltage Derating Curve.

●Recommended Operating Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	V _{CC}	3.8	12	24 ^(*)	V
Operating Temperature Range	T _{opr}	-40	+25	+125	°C

(*) Please refer to Supply Voltage Derating Curve.

●Functional Block Diagram



●Electrical Characteristics ① (Ta=25°C, V_{CC}=12V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
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 Characteristics ② (Ta=-40~+125°C, V_{CC}=3.8~24V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
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

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•This product contains gallium arsenide(GaAs).Handling and discarding precautions required.

●Magnetic Characteristics ① (Ta=25°C, Vcc=12V)

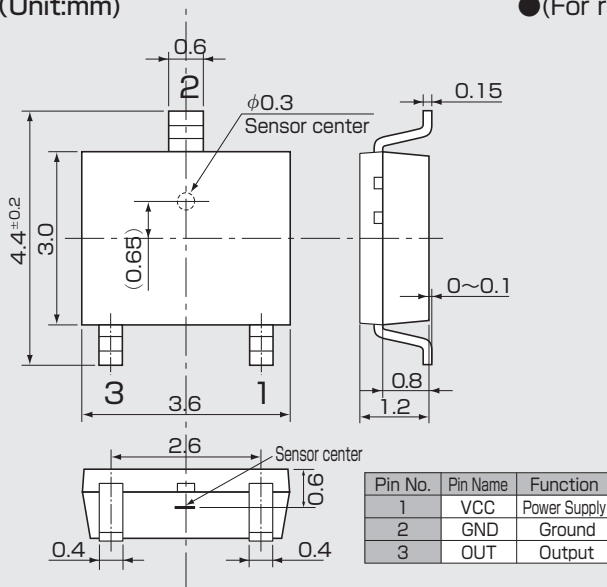
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	Bop		1	4.2	7.5	mT
Releasing Point	Brp		-7.5	-4.2	-1	mT
Hysteresis	Bh		2	8.4	15	mT

●Magnetic Characteristics ② (Ta=-40~+125°C, Vcc=3.8~24V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	Bop		0.5	4.2	8.5	mT
Releasing Point	Brp		-8.5	-4.2	-0.5	mT
Hysteresis	Bh		1	8.4	17	mT

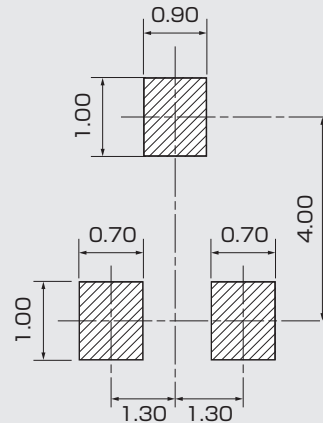
(*) Please refer to Supply Voltage Derating Curve.

●Package (Unit:mm)

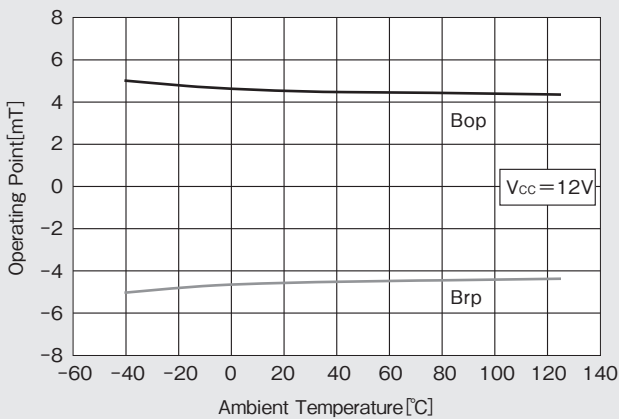


- Note1) The sensor center is located within the $\phi 0.3$ mm circle.
- Note2) The tolerances of dimensions with no mentions is ± 0.1 mm.
- Note3) The sensor part is located 0.6mm(typ.) far from marking surface.

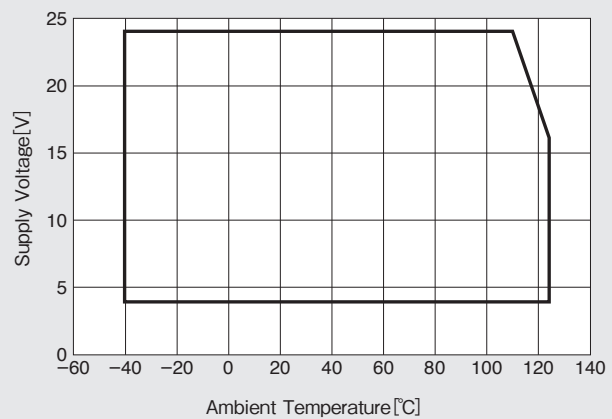
●(For reference only)Land Pattern (Unit:mm)



●Temperature Dependence of Bop, Brp



●Supply Voltage



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February 21, 2013

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