EZ-470

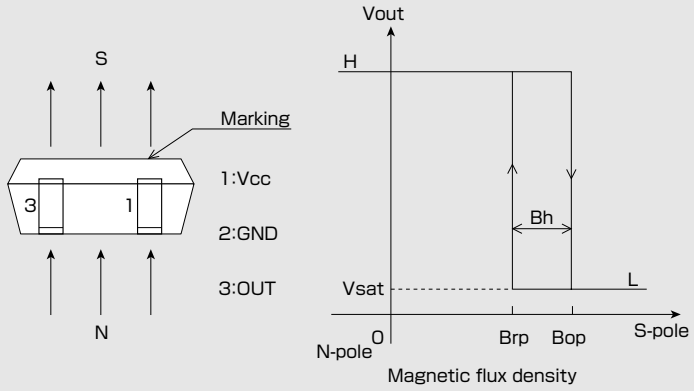
Shipped in packet-tape reel(5000pcs/Reel)

EZ-470 is composed of an InAs Hall Element and a signal processing IC chip in a package

Unipolar Hall Effect Latch	Supply Voltage 2~24V	Hall Element Continuous Excitation	Ultra Low Sensitivity Bop:26mT	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

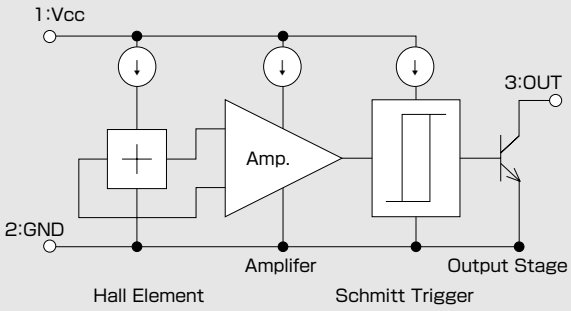


●Absolute Maximum Ratings (Ta=25℃)

Item	Symbol	Limit	Unit
Supply Voltage	V_{CC}	28(*)	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 Characteristics (Ta=−40~125℃, Vcc=2~24V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Current	V_{CC}		2	12	24(*1)	V
Output Leakage Current	I_{leak}	OUT="H"			10	μA
Output Saturation Voltage	V_{sat}	OUT="L", I_{out}=10mA			0.8	V
Supply Current	I_{CC}	OUT="H"		3	6	mA

(*) Please refer to Supply Voltage Derating Curve.

●Magnetic Characteristics (Ta=−40~85℃, Vcc=2~24V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	B_{op}		21	26	33	mT
Release Point	B_{rp}		14	20	25	mT
Hysteresis	B_n		4	6	11	mT

(*) Please refer to Supply Voltage Derating Curve.

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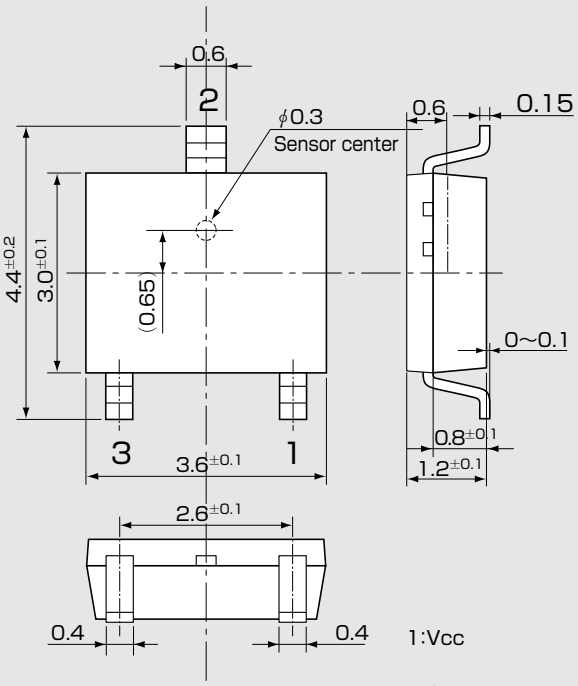
•This product contains galium arsenide(GaAs).Handling and discarding precsutions required.

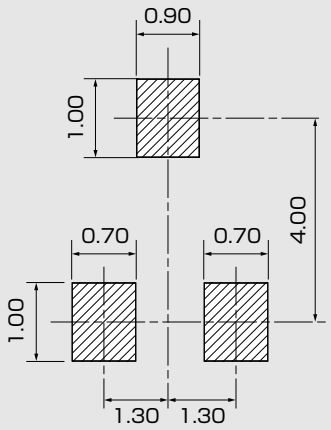
●Package (Unit:mm)



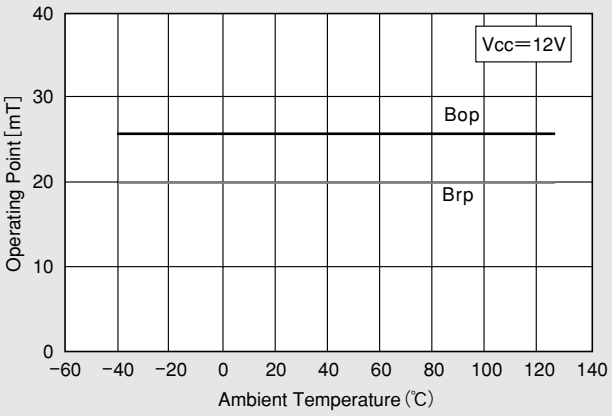
1:Vcc
2:GND
3:OUT

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

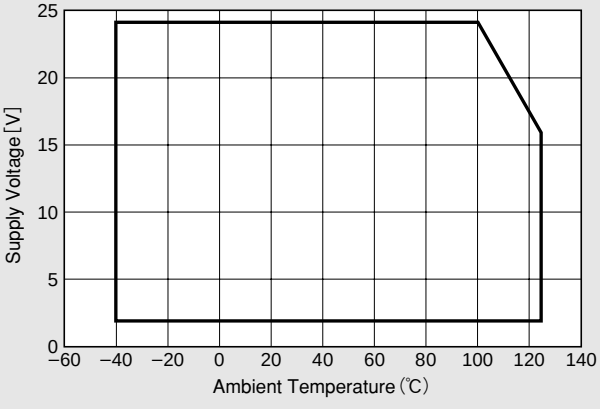
●(For reference only)Land Pattern (Unit:mm)



●Temparature Dependence of Bop. Brp



●Supply Voltage



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April 4, 2012