



EZ-470

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

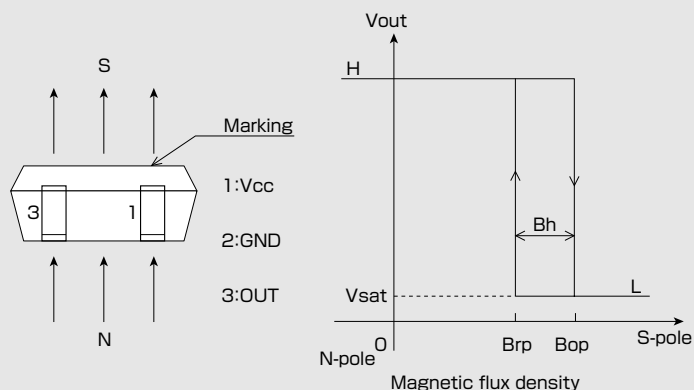
EZ-470 is composed of an InAs Hall Element and a signal processing IC chip in a package

Unipolar Hall
Effect LatchSupply Voltage
2~24VHall Element
Continuous
ExcitationUltra Low Sensitivity
Bop:26mTOutput
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

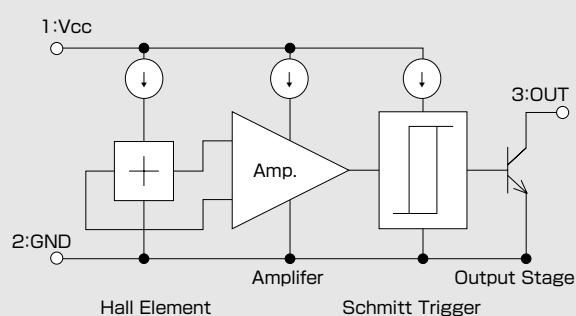


●Absolute Maximum Ratings (Ta=25°C)

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

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Current	V_{CC}		2	12	24 ^(*)	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°C, 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_h		4	6	11	mT

(*) Please refer to Supply Voltage Derating Curve.

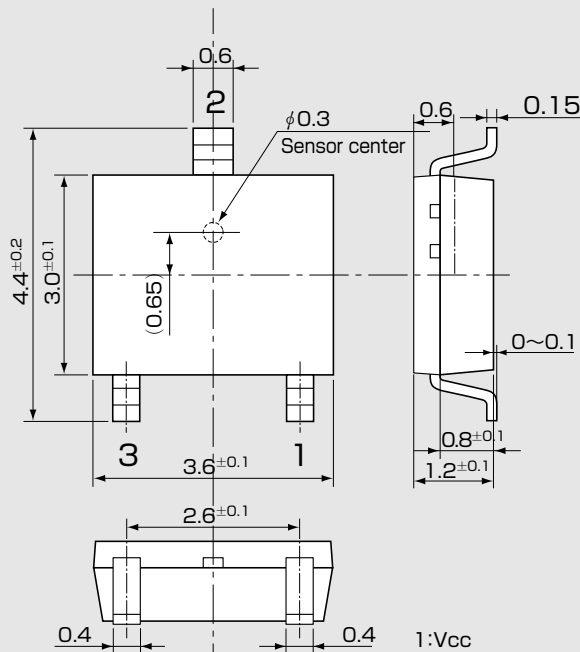
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Certain applications using semiconductor devices may involve potential risks of personal injury, property damage, or loss of life. In order to minimize these risks, adequate design and operating safeguards should be provided by the customer to minimize inherent or procedural hazards. Inclusion of our products in such

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

a

●Package (Unit:mm)

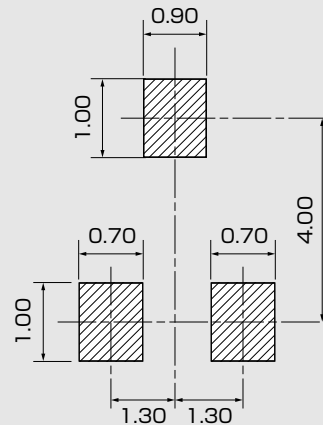


Note) The sensor center is located within the $\phi 0.3\text{mm}$ circle.

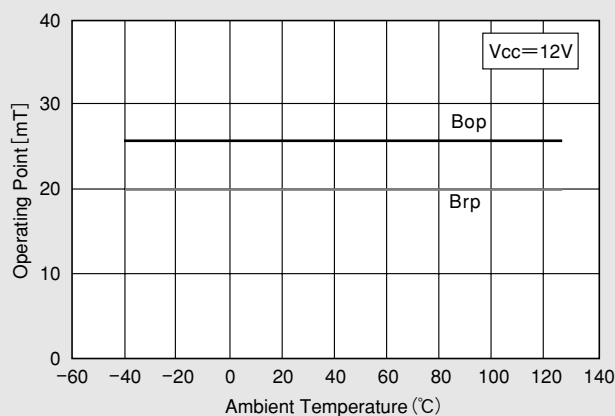
2:GND

3:OUT

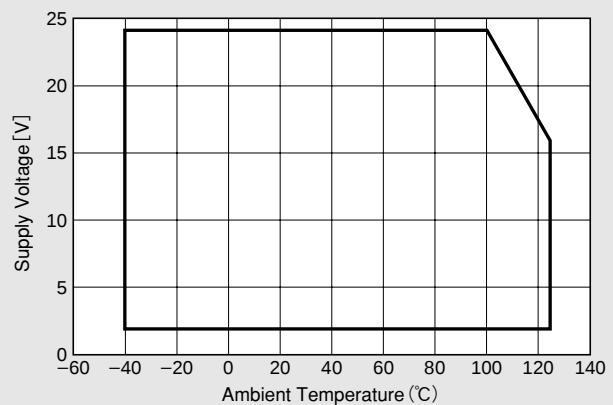
●(For reference only)Land Pattern (Unit:mm)



●Temperature Dependence of Bop. Brp



●Supply Voltage



h

O

p

q

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April 4, 2012