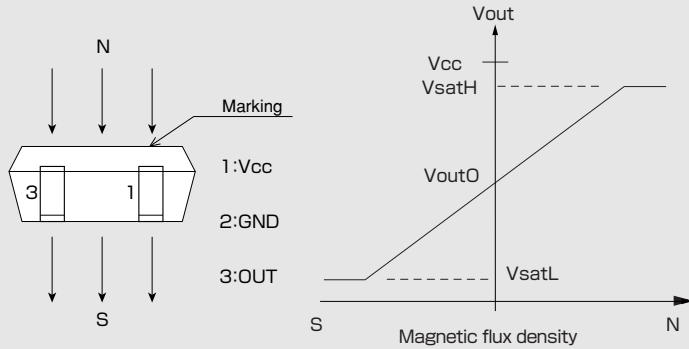


EQ-411L

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

EQ-411L is composed of a InAs Quantum Well Hall Element and a signal processing IC chip in a package
 Notice:It is requested to read and accept "IMPORTANT NOTICE" written on the back of the front cover of this catalogue.

●Operational Characteristics

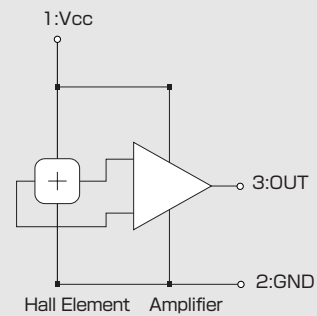


●Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limit	Unit
Supply Voltage	V_{CC}	6	V
Output Current	I_{out}	$\pm 1.2^{(*)}$	mA
Operational Temperature Range	T_{opr}	-30 ~ 100	°C
Storage Temperature Range	T_{stg}	-40 ~ 125	°C

(*) $V_{CC}=5V$

●Functional Block Diagram



●Magnetic and Electrical Characteristics (Ta=25°C Vcc=5V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	V_{CC}		3	5	5.5	V
Supply Current	I_{CC}			9	12	mA
Offset Voltage	V_{out0}		2.35	2.5	2.65	V
Magnetic Sensitivity	V_H	$B=25mT$	50	65	80	mV/mT
Output Saturation Voltage 1 ^(*)	V_{satH}	$I_{out}=-0.5mA$	$V_{CC}-0.3$		V_{CC}	V
Output Saturation Voltage 2 ^(*)	V_{satL}	$I_{out}=0.5mA$	0		0.3	V
Output Bandwidth ^(*)	fT	10% decrease frequency		50		kHz
Response Time ^(*)	T_r	90% arrival		5	7	μsec
Temp. coefficient of V_H ^(**)	αV_H	The maximum error from room temperature	-5	0	5	%
Temp. coefficient of V_{out0} ^(**)	αV_{out0}	$T_a=-30\sim 100^\circ C$ least squares approximation	-0.5	0	0.5	mV/°C

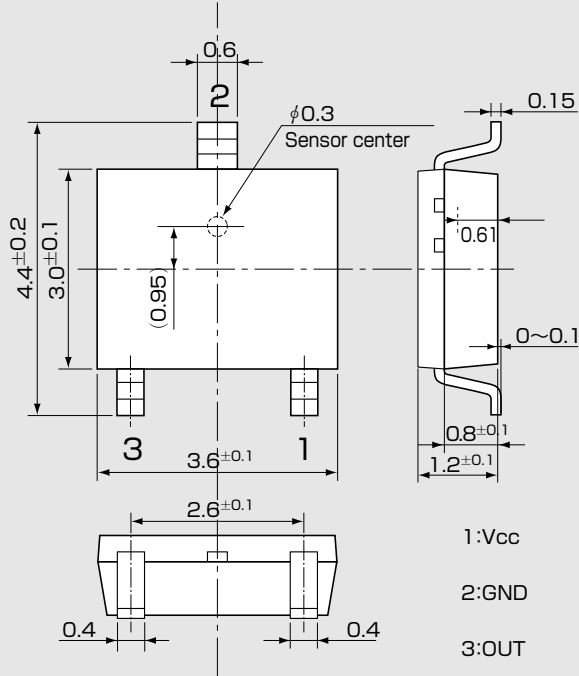
(*) : design targets

1 [mT]=10 [Gauss]

(**) : for reference only

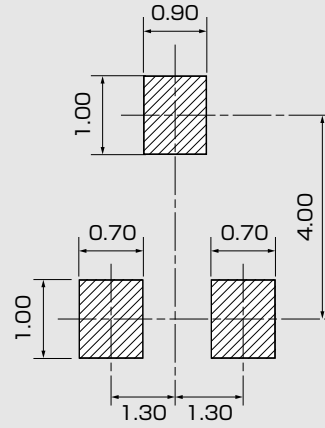
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Certain applications using semiconductor devices may involve potential risks of personal injury, property damage, or loss of life. In order to minimize these risks, adequate design and operating safeguards should be provided by the customer to minimize inherent or procedural hazards. Inclusion of our products in such
- This product contains gallium arsenide(GaAs).Handling and discarding precautions required.

●Package (Unit:mm)

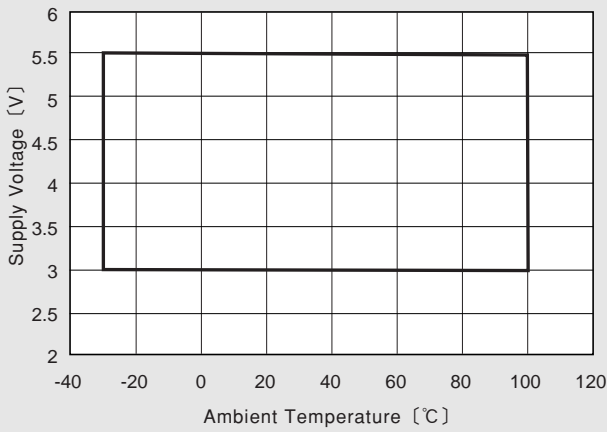


※The sensor center is located within the φ0.3mm circle.

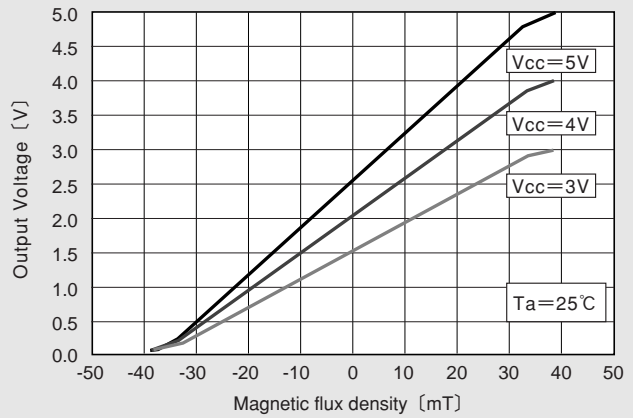
●(For reference only)Land Pattern (Unit:mm)



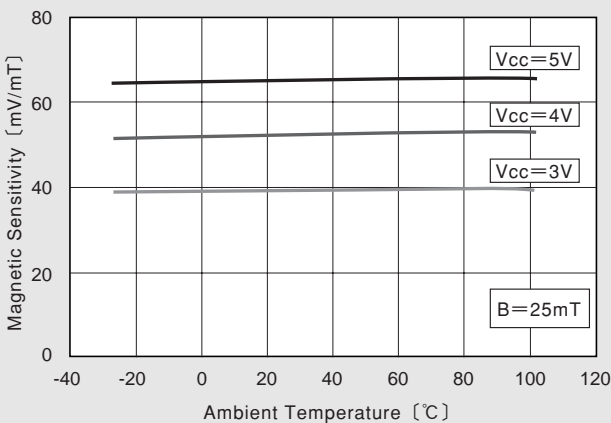
●Supply Voltage



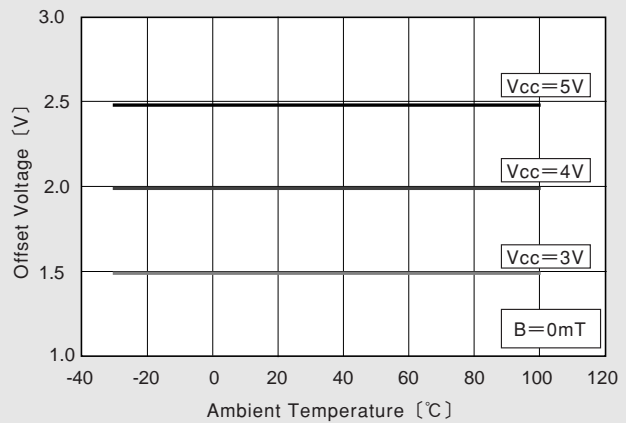
●Operational Characteristics



●Temperature dependence of VH



●(For reference only) Temperature dependence of Vout0



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