

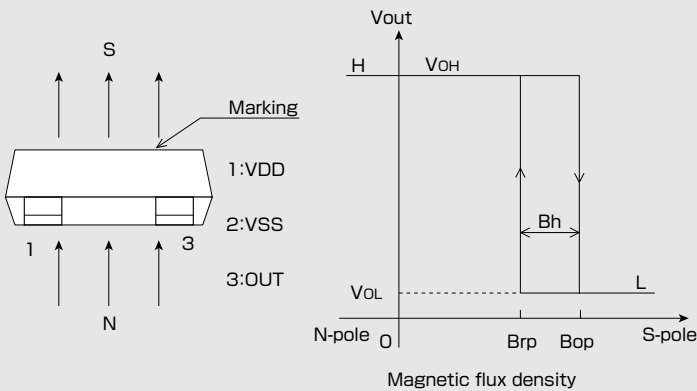
EW-6672

Shipped in packet-tape reel(3000pcs/Reel)

EW-6672 is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

Unipolar Hall Effect Switch	Supply Voltage 2.4~3.3V	Hall Element Pulse Excitation	Ultra High Sensitivity Bop: 1.5mT	Output CMOS	SMT
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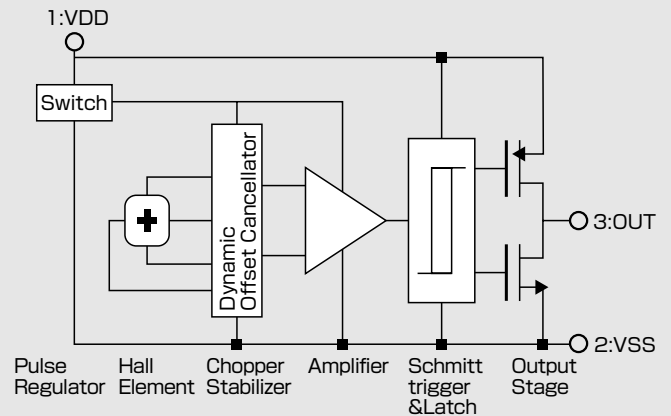
●Operational Characteristics



●Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Limit	Unit
Supply Voltage	VDD	-0.1 ~ 5.0	V
Output Current	I _{out}	±1	mA
Operating Temperature Range	Topr	-30 ~ 85	°C
Storage Temperature Range	Tstg	-40 ~ 125	°C

●Functional Block Diagram



●Magnetic ① and Electrical Characteristics (Ta=25°C VDD=3V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	VDD		2.4	3.0	3.3	V
Operating Point	B _{OP}		1.0*	1.5	2.3	mT
Release Point	B _{RP}		0.8	1.2	1.9*	mT
Hysteresis	B _H		0.1*	0.3	0.6*	mT
Period	T _p			50	100	ms
Output High Voltage	VOH	I _o =-1.0mA	VDD - 0.4			V
Output Low Voltage	VOL	I _o =+1.0mA			0.4	V
Supply Current	IDD	Average		5	10	μA

1 [mT]=10 [Gauss]

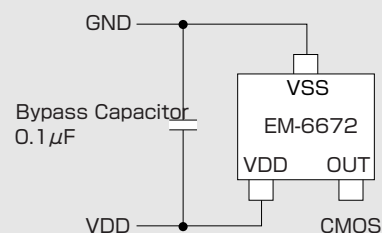
The characteristics with [*] marks are design targets.

●Magnetic Characteristics ② (Ta=-30°C~85°C VDD=3V)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	B _{OP}		0.9	1.5	2.9	mT
Release Point	B _{RP}		0.8	1.2	2.3	mT
Hysteresis	B _H		0.1	0.3	0.8	mT

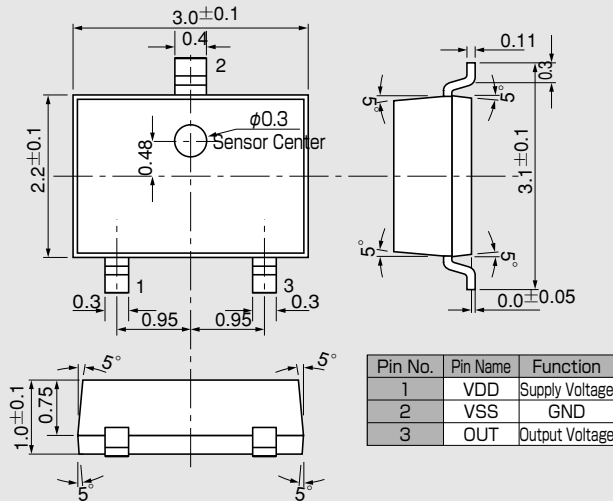
Note) The above specifications are design targets.

●Application Circuit



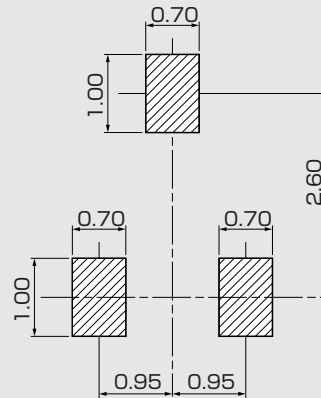
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●Package (Unit:mm)

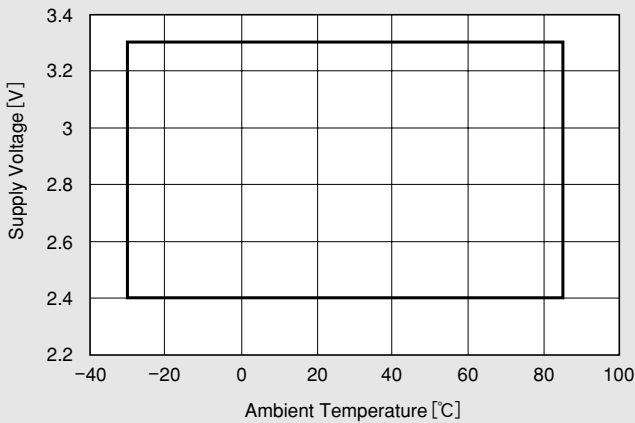


Note) The sensor center is located within the $\phi 0.3$ mm circle.

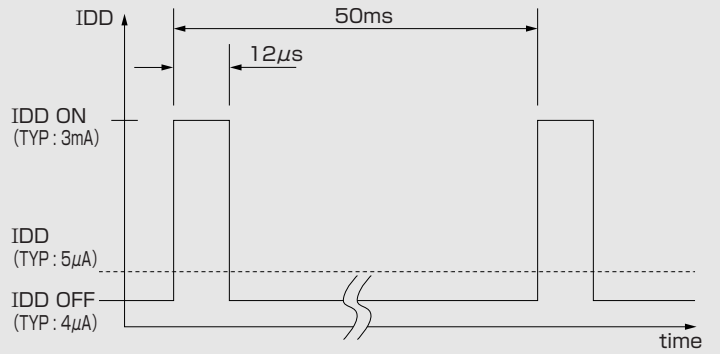
●(For reference only)Land Pattern (Unit:mm)



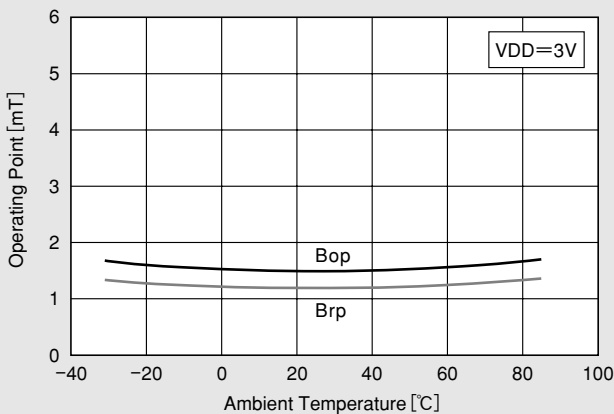
●Supply Voltage



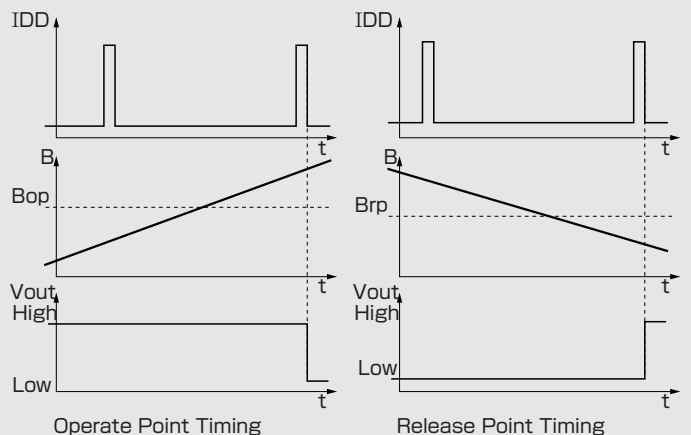
●IDD Pulse Driving (VDD=3V)



●Temperature Dependence of Bop. Brp



●Function Timing Chart



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April 4, 2012