



EW-6672

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

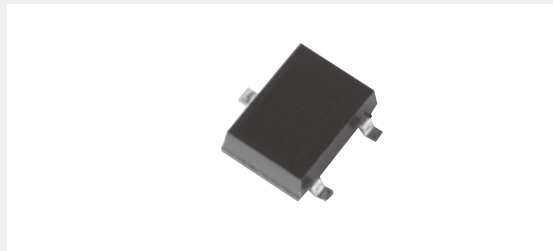
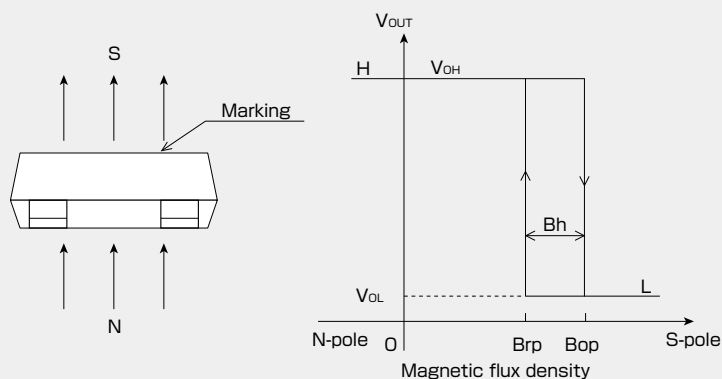
EW-6672 is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

Unipolar Hall
Effect SwitchSupply Voltage
2.4~3.3VHall Element
Pulse
ExcitationUltra High Sensitivity
Bop: 1.5mTOutput
CMOS

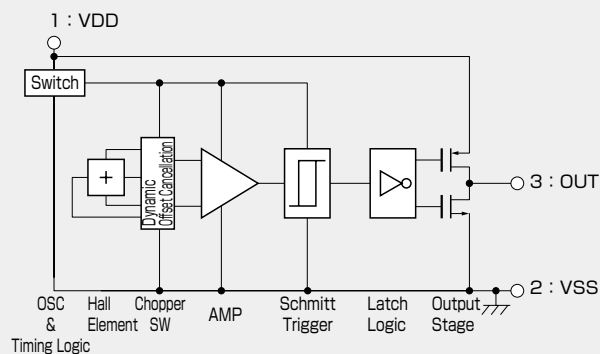
SMT

Notice:It is requested to read and accept "IMPORTANT NOTICE" written on the back of the front cover of this catalogue.

●Operational Characteristics



●Functional Block Diagram



●Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

Item	Symbol	Min.	Max.	Unit
Supply Voltage	V_{DD}	-0.1	5.0	V
Output H Voltage	I_{OUT}	-1.0	+1.0	mA
Storage Temperature Range	T_{STG}	-40	+125	$^\circ\text{C}$

●Recommended Operating Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	V_{CC}	2.4	3.0	3.3	V
Operating Temperature Range	T_{opr}	-30	+25	+85	$^\circ\text{C}$

●Magnetic ① and Electrical Characteristics ($T_a=25^\circ\text{C}$ $V_{DD}=3\text{V}$)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	Bop		1.0*	1.5	2.3	mT
Releasing Point	Brp		0.8	1.2	1.9*	mT
Hysteresis	Bh		0.1*	0.3	0.6*	mT
Period	T_p			50	100	ms
Output High Voltage	V_{OH}	$I_o = -1.0\text{mA}$	$V_{DD} - 0.4$			V
Output Low Voltage	V_{OL}	$I_o = +1.0\text{mA}$			0.4	V
Supply Current	I_{DD}	Average		5	10	μA

The characteristics with[*] marks are design targets.

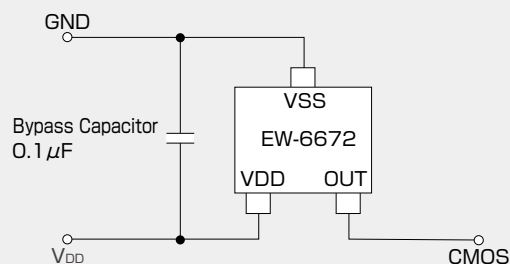
1 [mT] = 10 [Gauss]

●Magnetic Characteristics ② ($T_a=-30\sim+85^\circ\text{C}$ $V_{DD}=3\text{V}$)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Point	Bop		0.9	1.5	2.9	mT
Releasing Point	Brp		0.8	1.2	2.3	mT
Hysteresis	Bh		0.1	0.3	0.8	mT

Note) The above specifications are design targets.

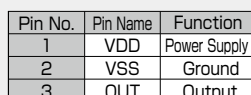
●Application Circuit



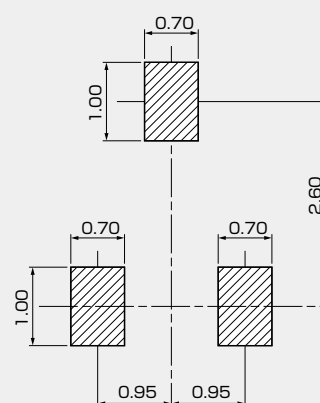
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●(For reference only)Land Pattern (Unit:mm)

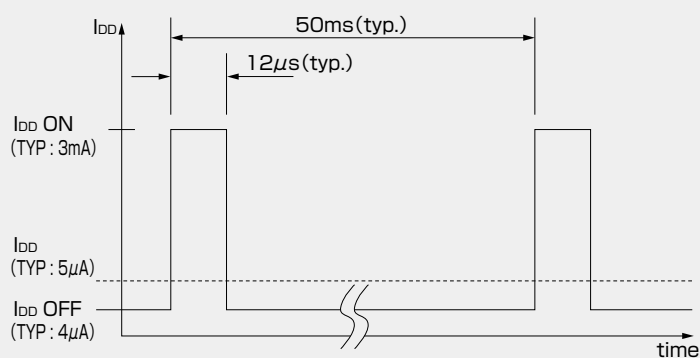


Note3) The sensor part is located 0.3mm(typ.) far from marking surface.



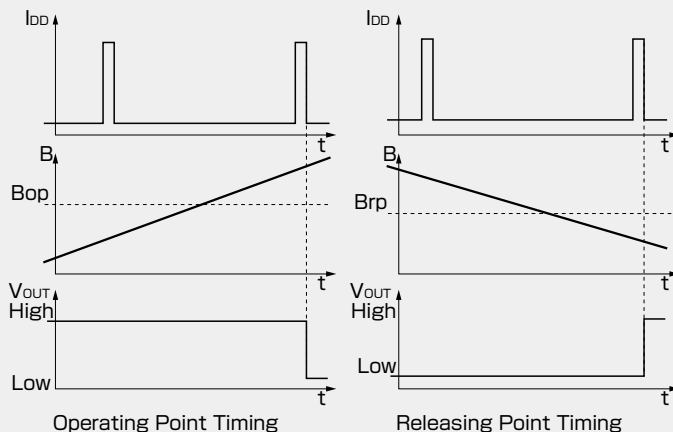
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●IDD Pulse Driving ($V_{DD}=3V$)



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●Function Timing Chart



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