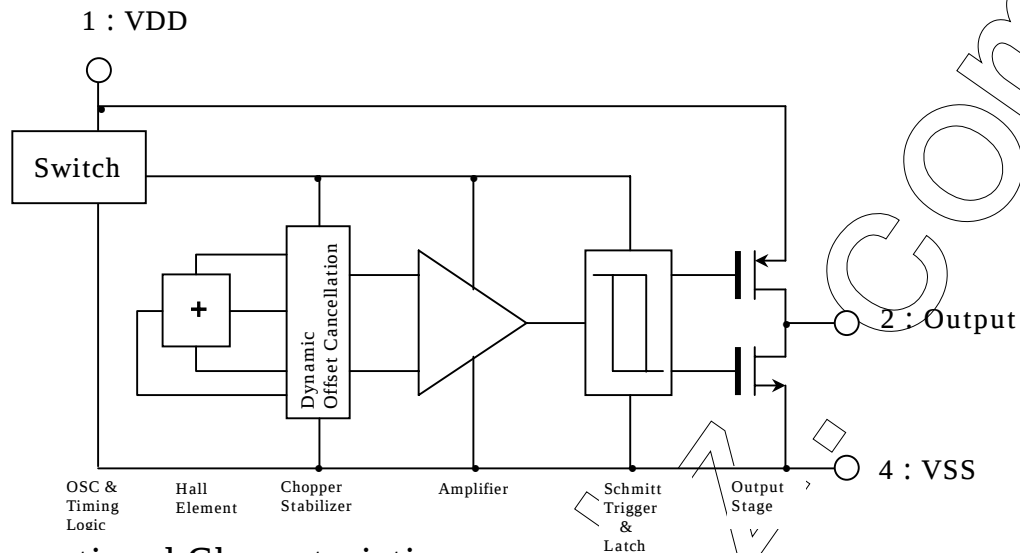


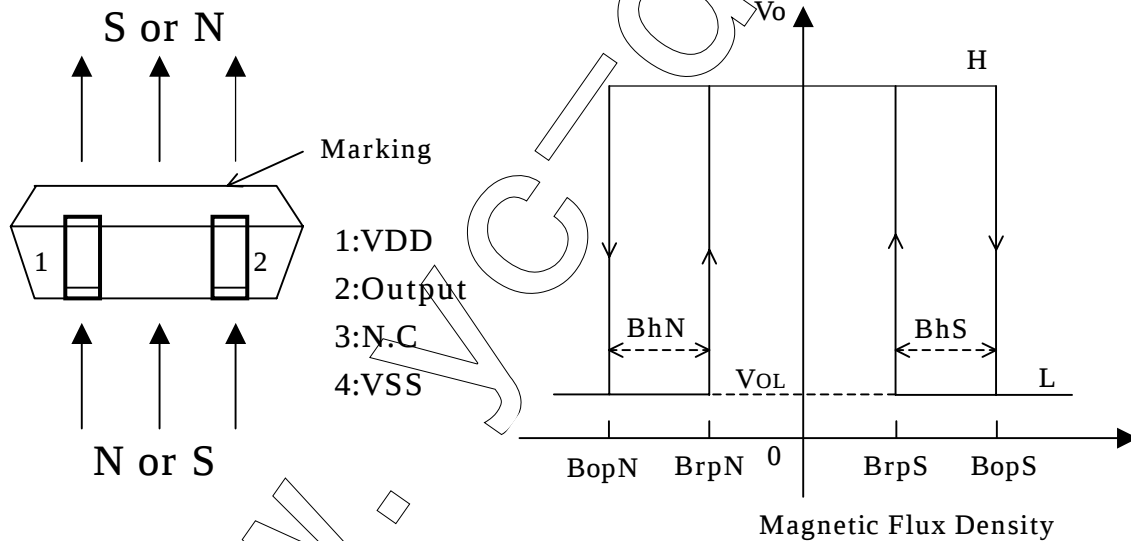
HALL IC EM-1681

Notice: It is requested to read and accept "IMPORTANT NOTICE" written in the page "IMPORTANT" on the top page of this web site .

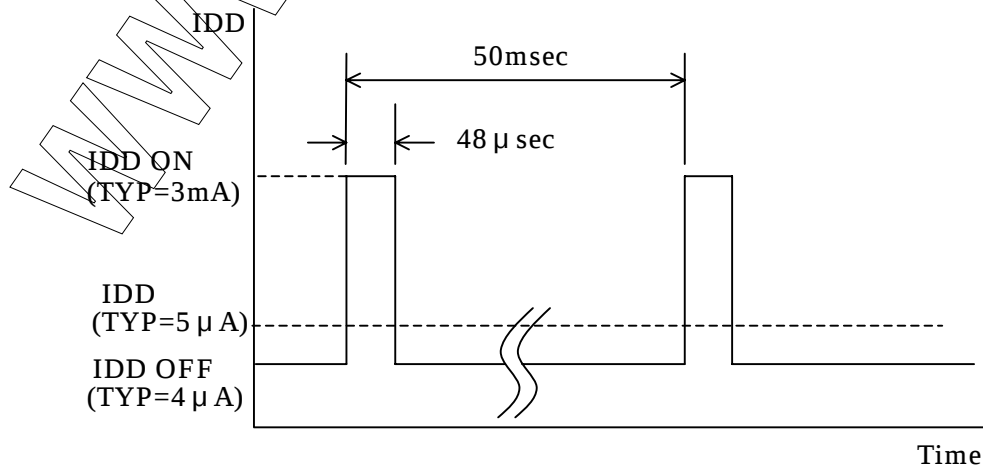
Functional Block Diagram



Operational Characteristics



Idd Pulse Driving



Absolute Maximum Ratings (Ta=25)

Parameter	Symbol	Limit	Unit
Supply Voltage	Vdd	-0.1 ~ 5.0	V
Output Current	Iout	± 1	mA
Operating Temperature Range	Topr	- 30 ~ +85	
Storage Temperature Range	Tstg	- 40 ~ +125	

Magnetic Specifications and Electrical Specifications
(Ta=25 Vdd=3.0V)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	Vdd		2.4	3.0	3.3	V
Operating Point	BopS BopN		* 2.0	3.0	4.0	mT
Release Point	BrpS BrpN		1.2	2.2	* 3.2	mT
Hysteresis	BhS BhN		* 0.3	0.8	* 1.5	mT
Period	Tp			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	7	μA

1mT=10Gauss

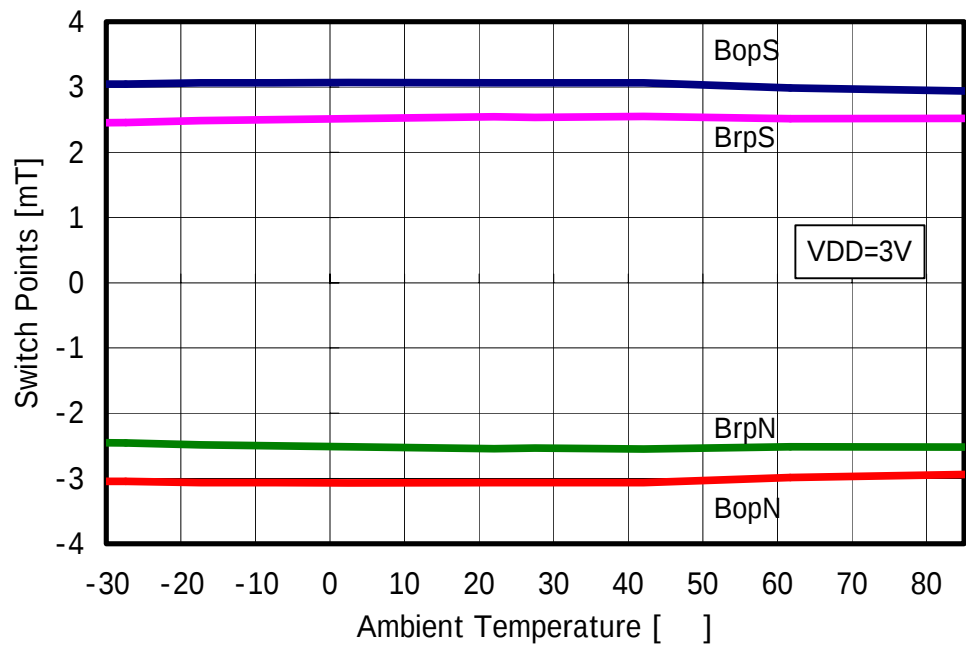
The characteristics with 「*」 marks are design targets.

Magnetic Specifications (Ta=-30 ~ +85 Vdd=3.0V)

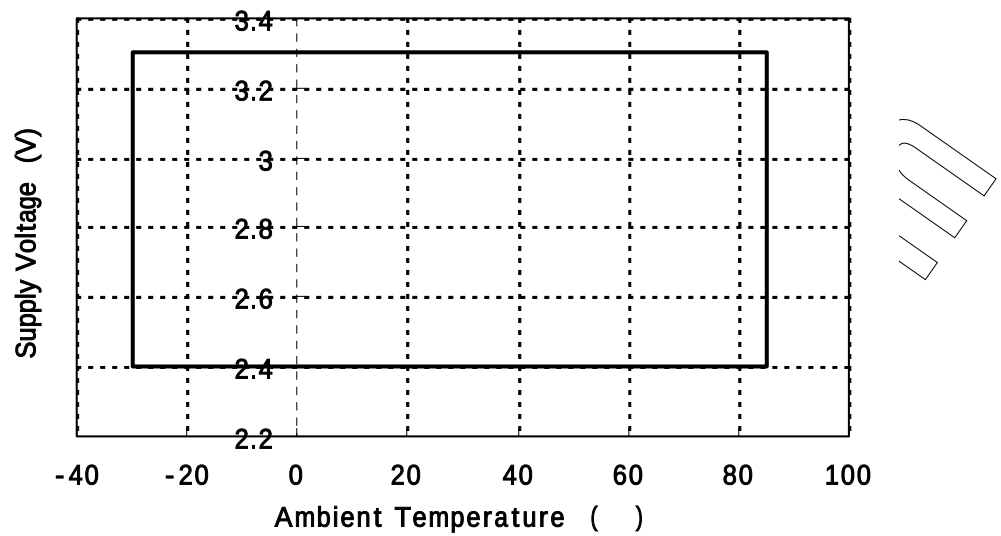
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Operating Point	BopS BopN		1.8	3.0	4.2	mT
Release Point	BrpS BrpN		1.0	2.2	3.4	mT
Hysteresis	BhS BhN		0.3	0.8	1.5	mT

*The above specifications are design targets.

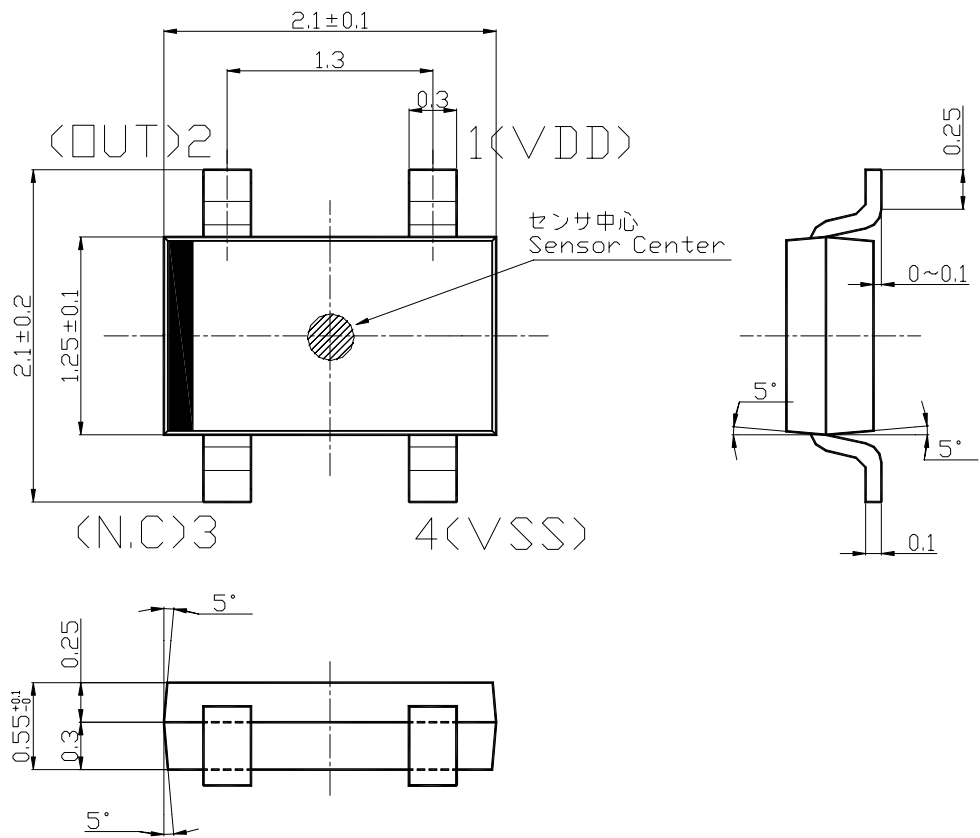
Typical Temperature Dependence



Supply Voltage

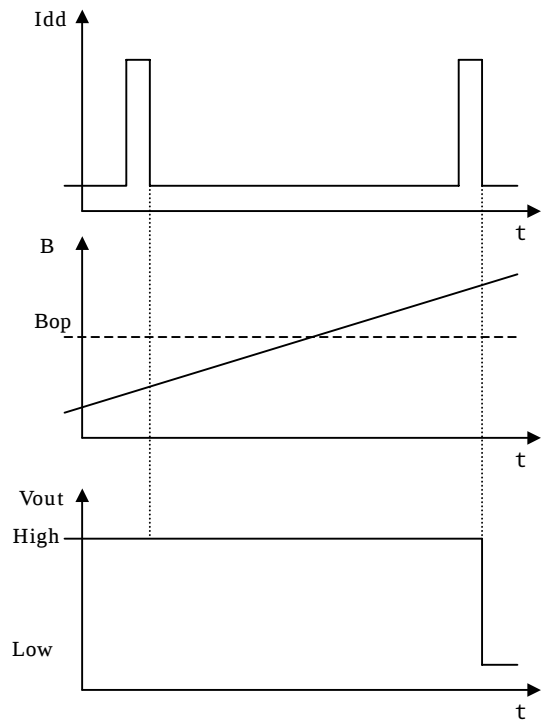


Package Dimensions (mm)

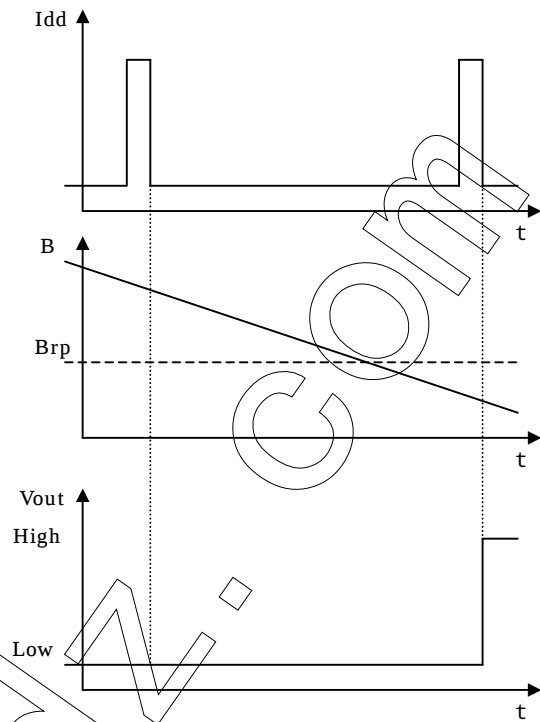


注) センサーの中心は半径0.3mmの円内に位置します。
Note) The sensor center is located within the $\phi 0.3\text{mm}$ circle.

Function Timing Chart



Operate Point Timing



Release Point Timing

Asahi Kasei Electronics reserves the right to revise the specification without notice.