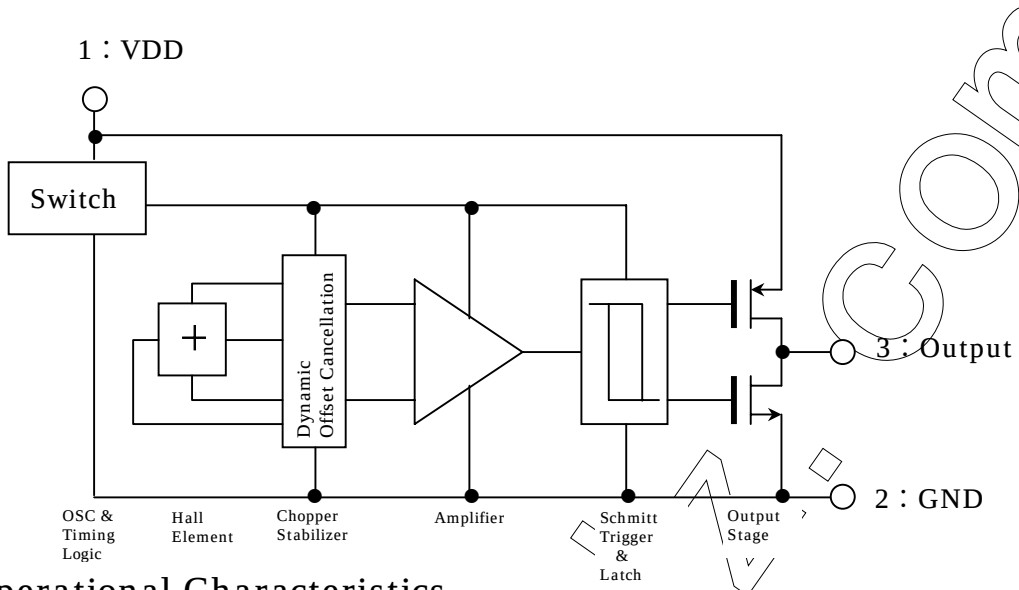
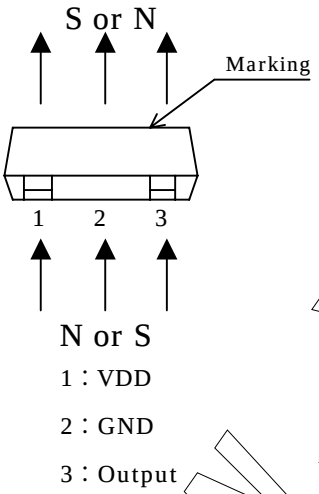
HALL IC EM-6681

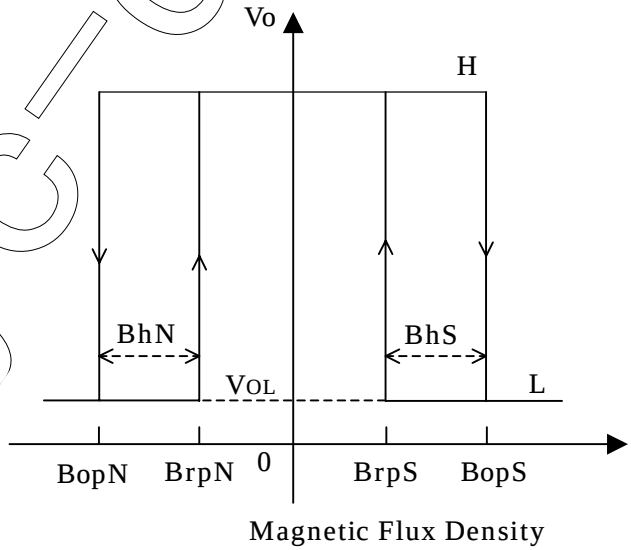
Notice: It is requested to read and accept "IMPORTANT NOTICE" written in the page "IMPORTANT" on the top page of this web site

◆Functional Block Diagram

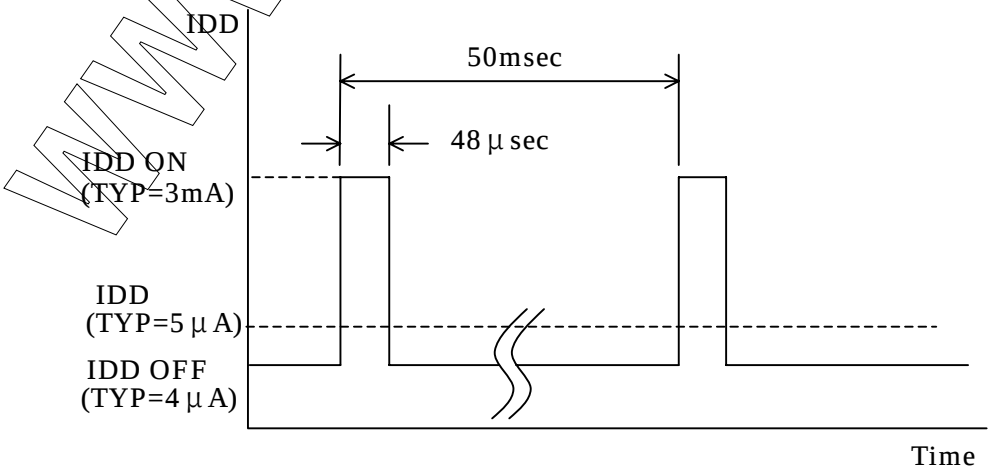


◆ Operational Characteristics





◆ Idd Pulse Driving



◆ Absolute Maximum Ratings （Ta=25°C）

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

◆Magnetic Specifications① and Electrical Specifications

（Ta=25°C 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	V_{OH}	Io=-1.0mA	Vdd-0.4			V
Output Low Voltage	V_{OL}	Io=+1.0mA			0.4	V
Supply Current	Idd	Average		5	7	μA

※1mT=10Gauss

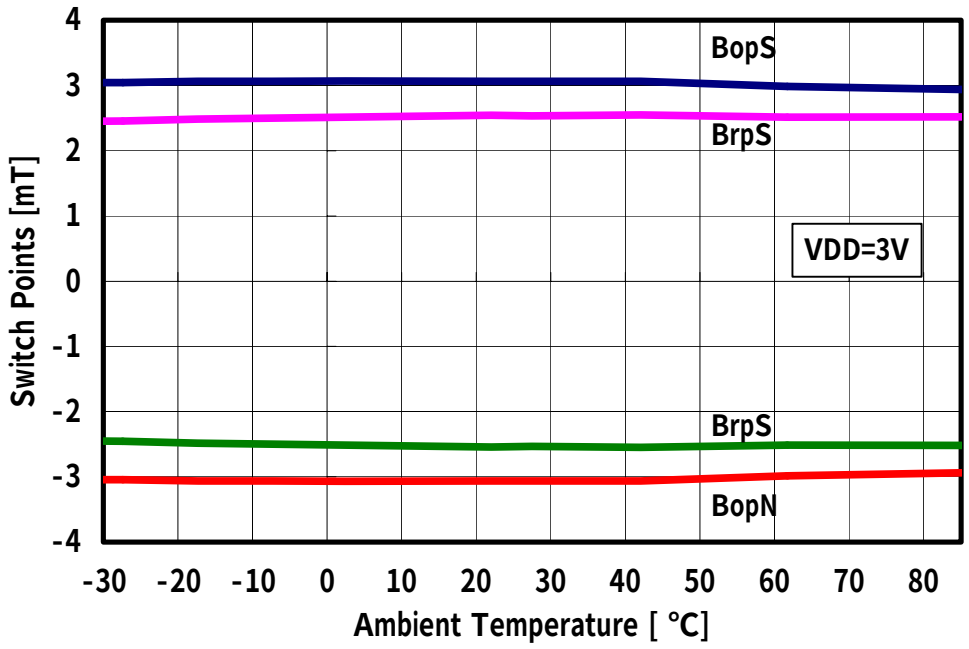
The characteristics with 「*」 marks are design targets.

◆ Magnetic Specifications②（Ta=-30℃～+85℃ Vdd=3.0V）

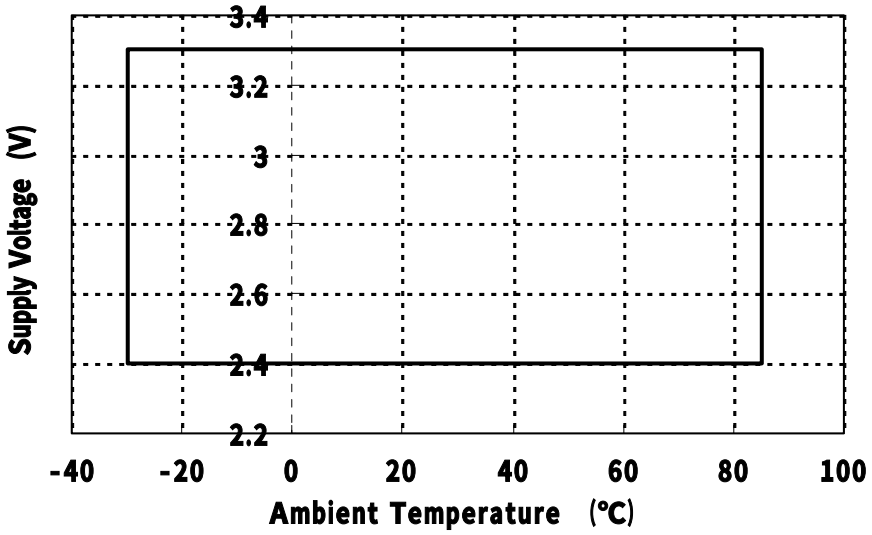
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Operating Point	BopS | BopN |		1.8	3.0	4.2	mT
Release Point	BrpS | BrpN |		1.0	2.2	3.4	mT
Hysteresis	BhS BhN		0.3	0.8	1.5	mT

*The above Specifications are design targets.

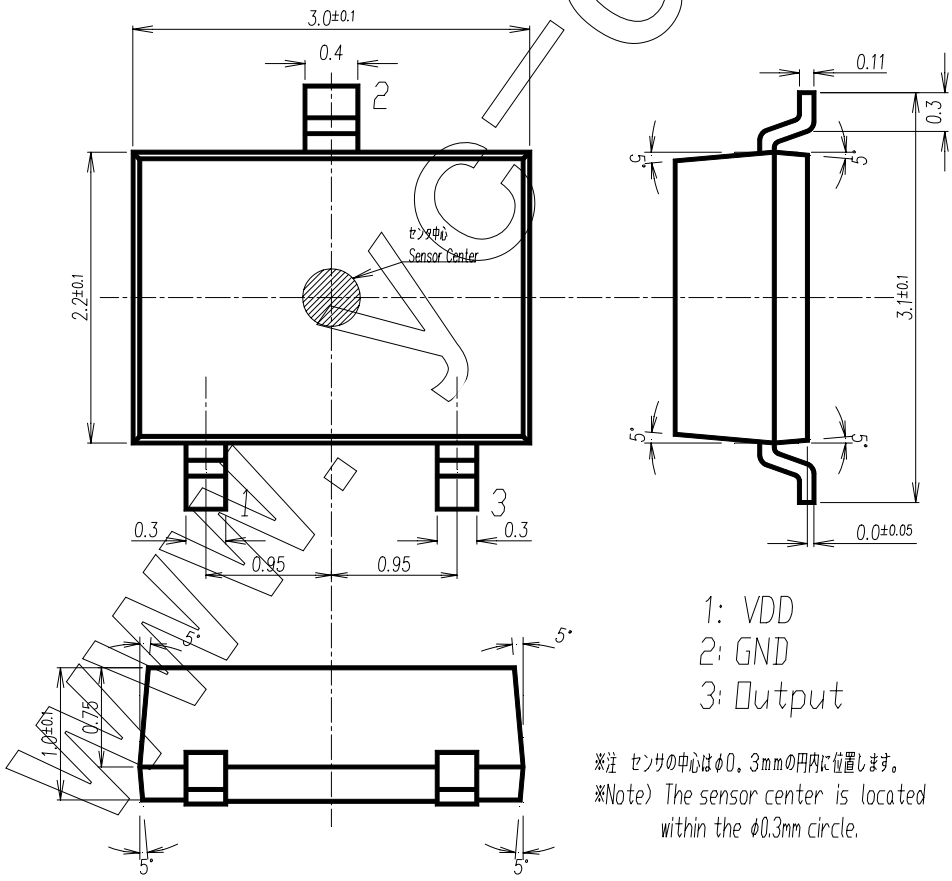
◆ Typical Temperature Dependance



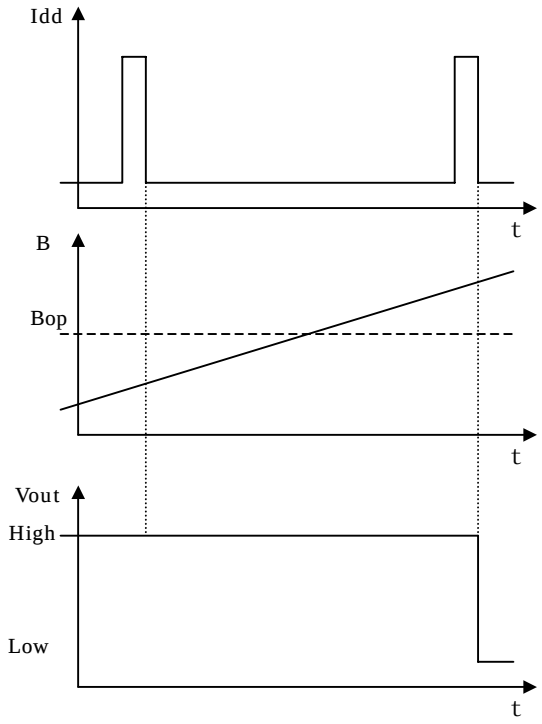
◆ Supply Voltage



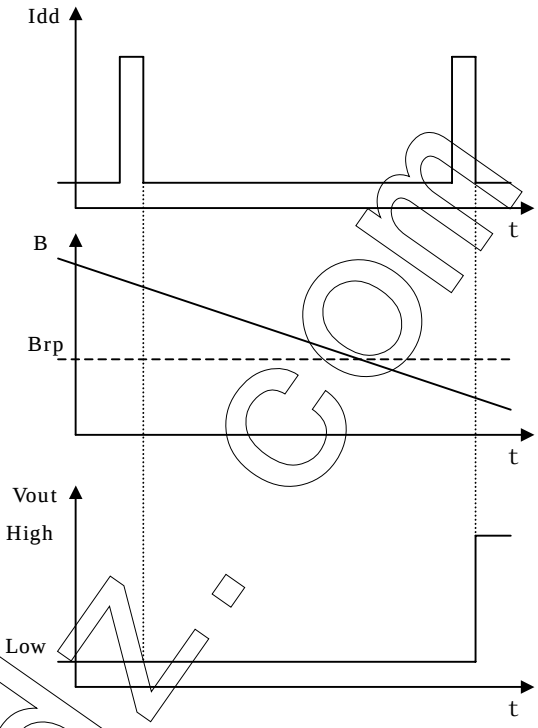
◆ Package Dimensions (mm)



◆ Function Timing Chart



Operate Point Timing



Release Point Timing

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