

AsahiKASEI Hall Effect Switch

EW-667 series

[New] EW-6671

[New] EW-6672

<http://www.asahi-kasei.co.jp/ake>

HALL EFFECT SWITCH EW-6671, EW-6672

◆ FEATURES

- Ultra-sensitive Hall effect SWITCH.....Non-contact magnetic switch
 - Suitable for battery operation.....Vdd=2.4V to 3.3V
 - Low power consumption.....Average 5 μ A (at Vdd=3V)
 - Extremely high-sensitive.....Operate with typical 1.5mT(EW-6672)
 - Wide operating temperature range.....-30°C to +85°C
 - Stable characteristics at wide temperature range
 - CMOS output

◆ MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	Limit	Unit
Supply Voltage	Vdd	-0.1 to +5	V
Output Current	Iout	± 1	mA
Operating Temperature Range	Topr	-30 to +85	°C
Storage Temperature Range	Tstg	-40 to +125	°C

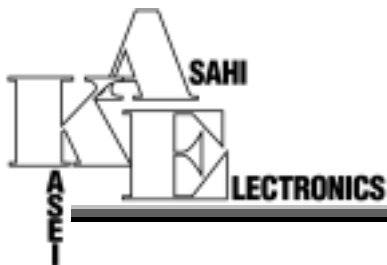
◆ ELECTRICAL CHARACTERISTICS (Ta=25°C Vdd=3V)

Item	Symbol	Unit	Conditions	EW6671			EW6672		
				Min.	Typ.	Max.	Min.	Typ.	Max.
Operate Point	Bop	mT		*2.0	3.0	4.6	*1.0	1.5	2.3
Release Point	Brp	mT		1.6	2.4	*3.7	0.8	1.2	*1.9
Hysteresis	Bh	mT		*0.3	0.6	*1.2	*0.1	0.3	*0.6
Period	Tp	ms		25	50	100	25	50	100
Output High Voltage	VOH	V	I _o = - 1.0mA	Vdd - 0.4			Vdd - 0.4		
Output Low Voltage	VOL	V	I _o =+1.0mA			0.4			0.4
Supply Current	Idd	μ A	Average		5	10		5	10
Supply Voltage	Vdd	V		2.4	3.0	3.3	2.4	3.0	3.3

Note*: These characteristics are design targets.

1mT=10Gauss

•This specification is subject to change without notice. February 17, 2003



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—REFERENCE— EW-6671, 6672

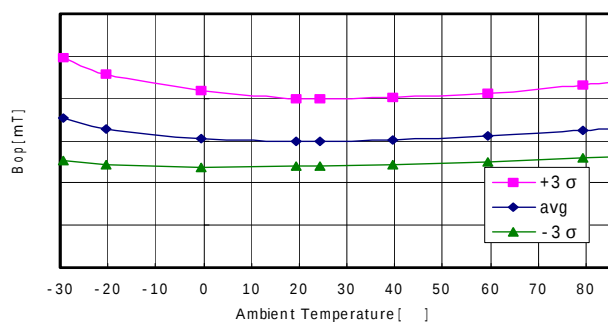
◆ MAGNETIC CHARACTERISTICS (Ta=-30°C to +85°C Vdd=3V)

Item	Symbol	Unit	EW6671			EW6672		
			Min.	Typ.	Max.	Min.	Typ.	Max.
Operate Point	Bop	mT	1.9	3.0	5.7	0.9	1.5	2.9
Release Point	Brp	mT	1.6	2.4	4.6	0.8	1.2	2.3
Hysteresis	Bh	mT	0.3	0.6	1.5	0.1	0.3	0.8

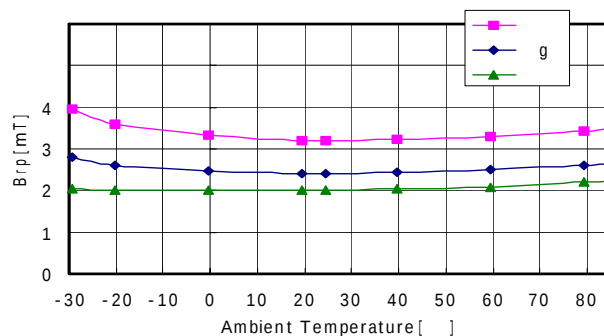
Note: These characteristics are design targets.

◆ TYPICAL CHARACTERISTICS vs. TEMPERATURE (Vdd=3V)

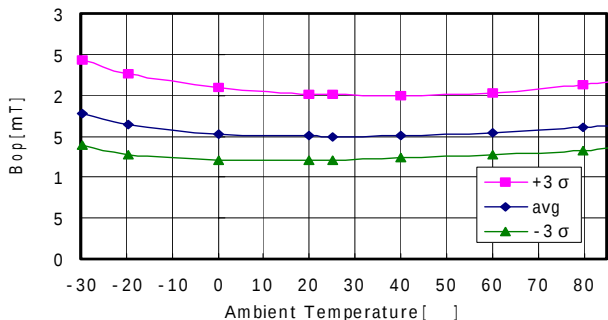
W 6 6 7 1 Operate Point vs. Temperature



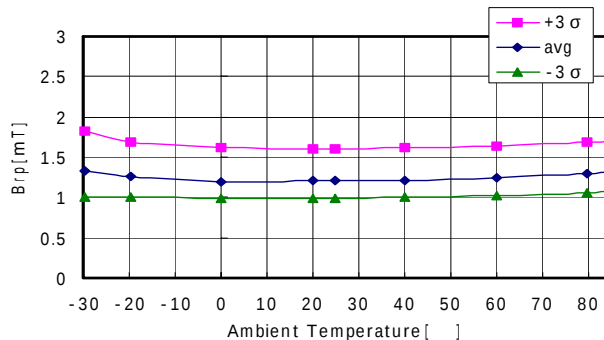
W 6 6 7 1 Release Point vs. Temperature



EW 6 6 7 2 Operate Point vs. Temperature



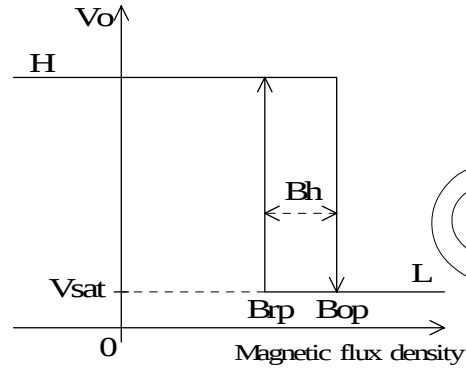
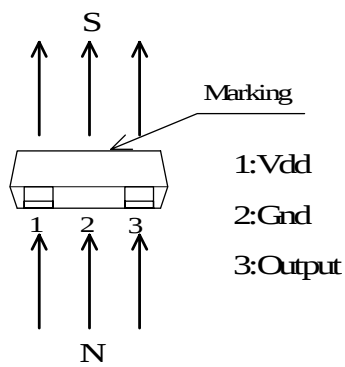
EW 6 6 7 2 Release Point vs. Temperature



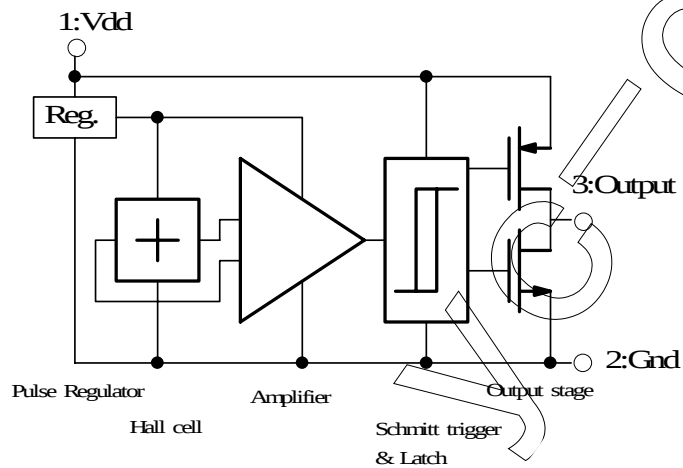
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--EW-667 SERIES COMMON SPECIFICATION--

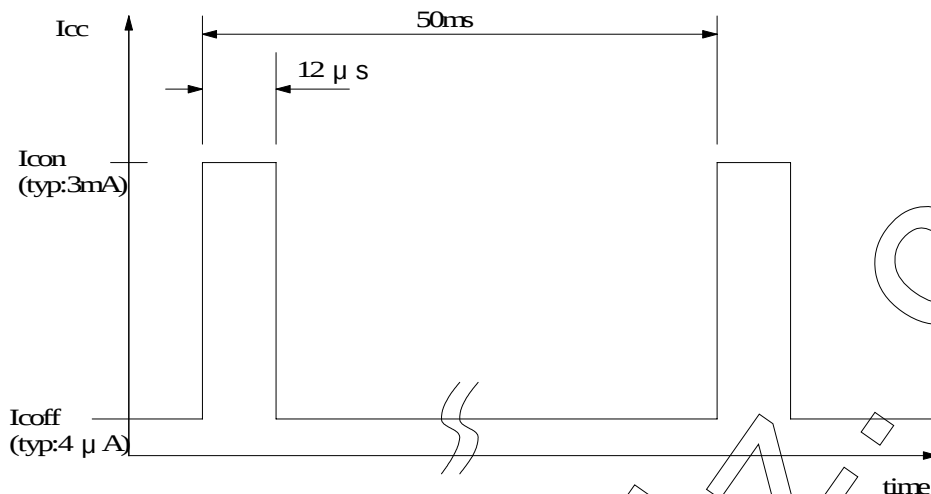
◆ OPERATIONAL CHARACTERISTICS



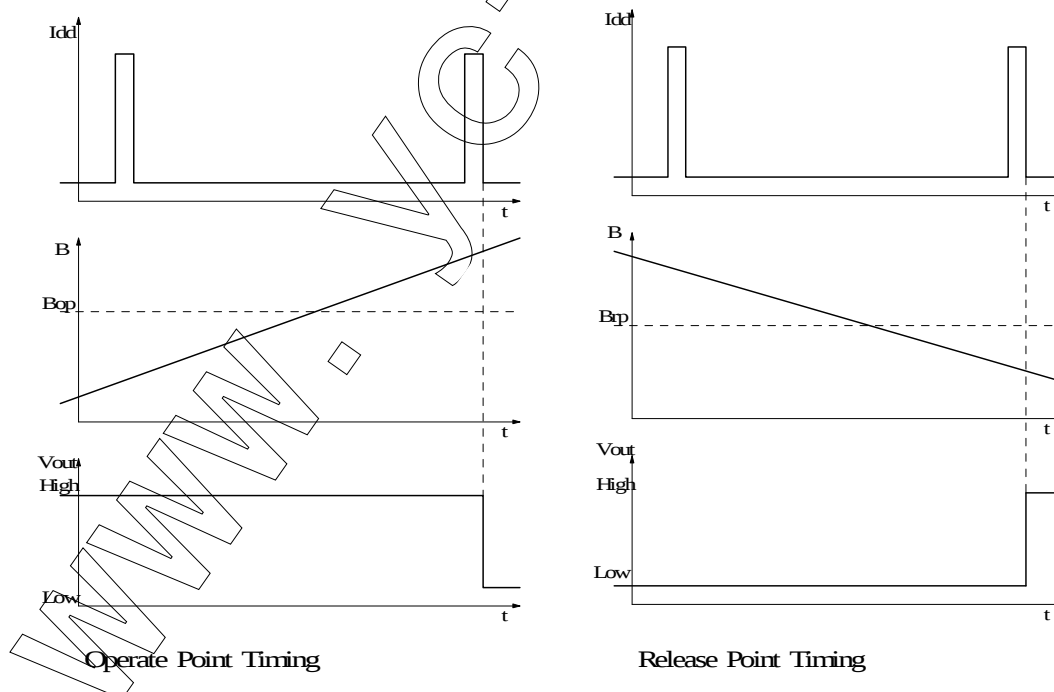
◆ FUNCTIONAL BLOCK DIAGRAM



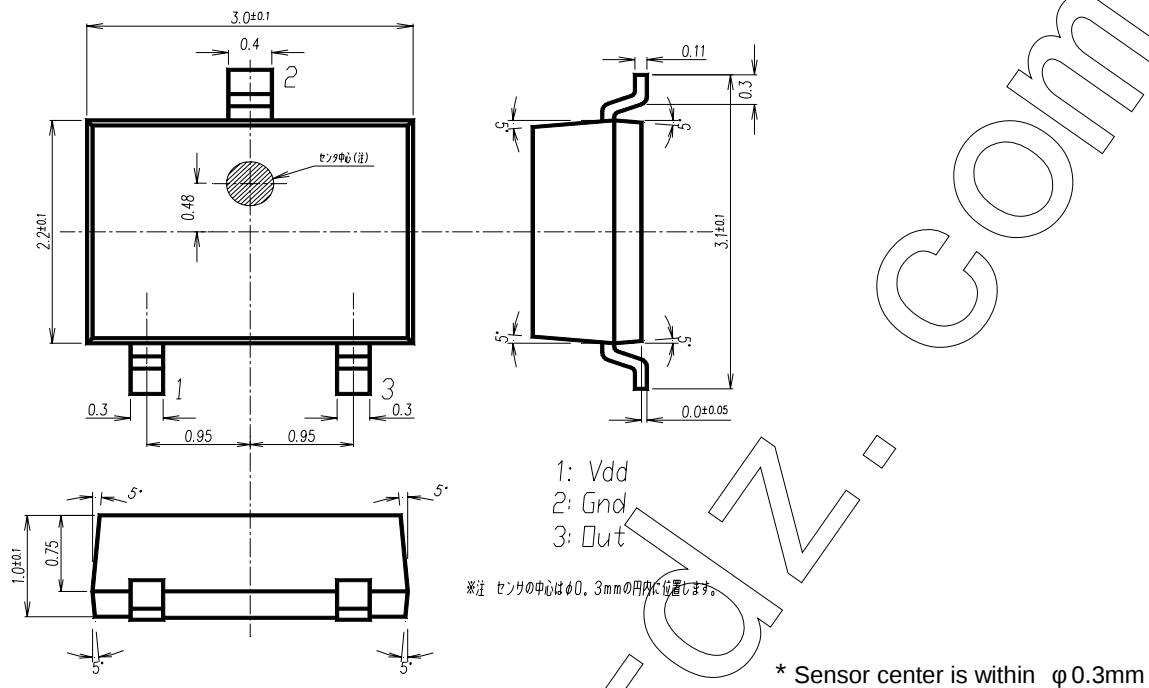
◆ Idd PULSE DRIVING



◆ FUNCTION TIMING CHART



◆ DIMENSIONS (Unit: mm)



◆ CARRIER TAPE

◆ REEL

