

EW-452, EW-552

UNIPOLAR HALL EFFECT LATCHES

ASAHI HALL EFFECT ICs

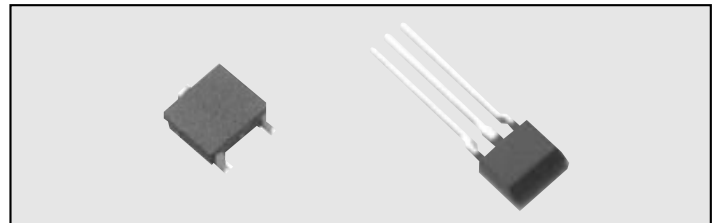
ASAHI KASEI ELECTRONICS Hall Effect ICs are composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package. ASAHI KASEI ELECTRONICS Hall Effect ICs have high sensitivity and good stability.

FEATURES

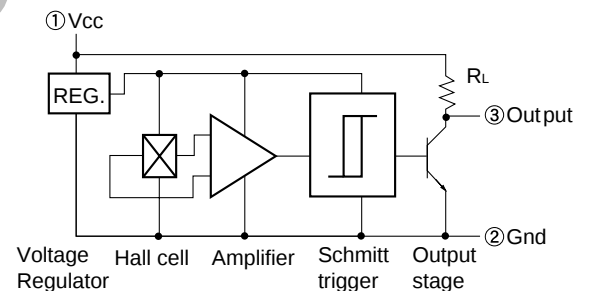
- Bop(max):20mT
- Effective Performance at Low Magnetic Field
- 4.5V to 18V Operation
- Highly Resistant to Mechanical Stress
- Stable Operation in Broad Temperature Range
- Compact Size
- With Load Resistance

APPLICATIONS

- Rotor Position Sensor for Precision Motors.
- Stroke Sensor
- Proximity Switch
- Encoder
- Current Switch etc.



FUNCTIONAL BLOCK DIAGRAM

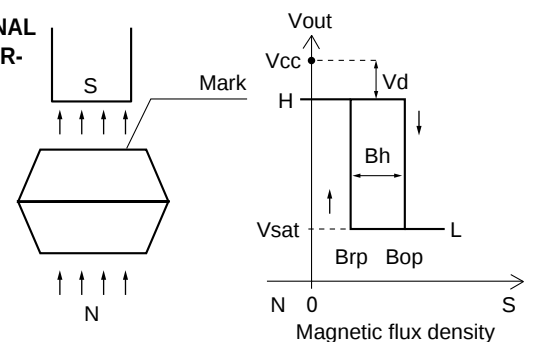


ABSOLUTE MAXIMUM RATINGS(Ta = 25 °C)

Item	Symbol	Limit	Unit
Supply Voltage * 1	Vcc	18	V
Output "OFF" Voltage	Vo(off)	18	V
Output "ON" Current	I sink	15	mA
Operating Temperature Range	Topr	- 20 ~ + 115	
Storage Temperature Range	Tstg	- 40 ~ + 125	

* 1:Please refer to(Fig 1) DERATING CURVE "

OPERATIONAL CHARACTERISTICS



ELECTRICAL CHARACTERISTICS(Ta = 25 °C , Vcc = 4.5 ~ 18V DC.)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operate Point	Bop	Vcc=12V			20	mT
Release Point	Brp	Vcc=12V	5			mT
Hysteresis	Bh		1.5			mT
Output Saturation Voltage	Vsat	Output"L", Vcc=12V			0.4	V
Supply Current	I cc	Output"H", Vcc=12V			8	mA
Internal Load Resistance	RL		7		13	KΩ
Output Down Voltage	Vd				20	mV

1mT = 10Gauss

