

EW-410, EW-510

BIPOLAR HALL EFFECT LATCHES

ASAHI HALL EFFECT ICs

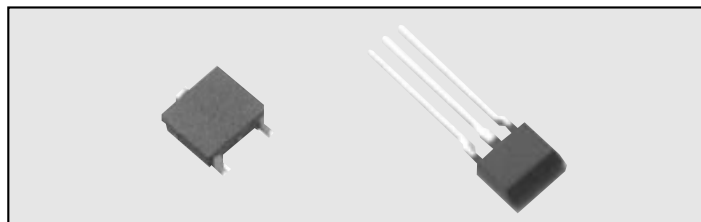
ASAHI KASEI ELECTRONICS Hall Effect ICs are composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package. ASAHI KASEI ELECTRONICS Hall Effect ICs have high sensitivity and good stability.

FEATURES

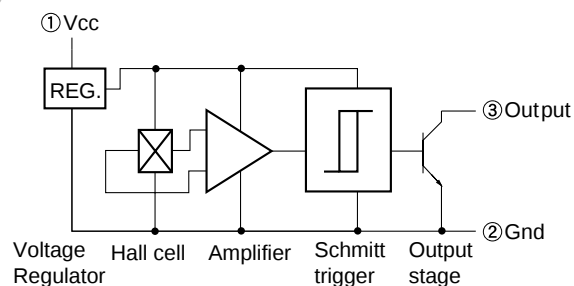
- High Sensitivity (Bop:1mT to 6mT)
- 4.5V to 18V Operation
- Highly Resistant to Mechanical Stress
- Stable Operation in Broad Temperature Range
- Compact Size
- Open Collector

APPLICATIONS

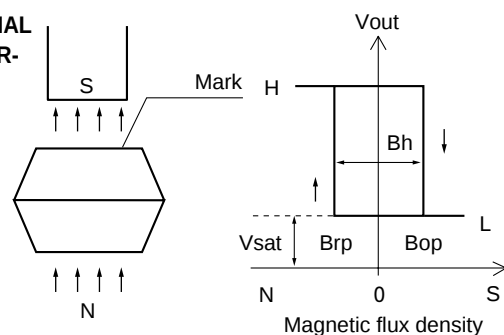
- Rotor Position Sensor for Precision Motors.
- Stroke Sensor
- Proximity Switch
- Encoder
- Current Switch etc.



FUNCTIONAL BLOCK DIAGRAM



OPERATIONAL CHARACTERISTICS



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	- 30 ~ + 115	
Storage Temperature Range	Tstg	- 40 ~ + 125	

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

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

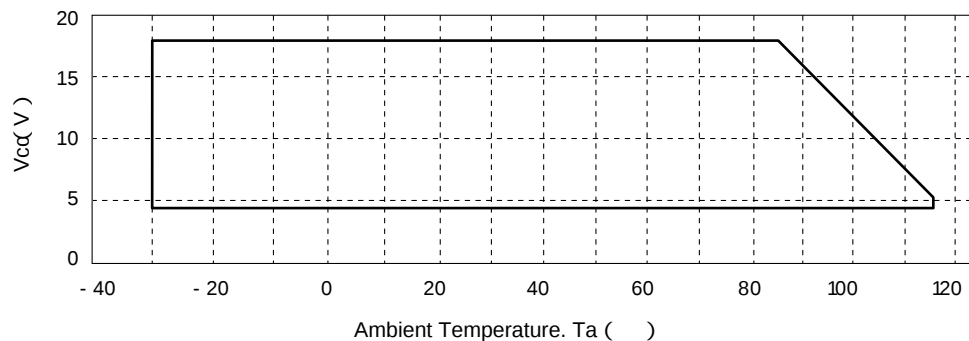
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operate Point	Bop	Vcc=12V	1		6	mT
Release Point	Brp	Vcc=12V	- 6		- 1	mT
Hysteresis	Bh		2			mT
Output Saturation Voltage	Vsat	Output"L", I sink=10mA			0.4	V
Supply Current	I cc	Output"H", Vcc=12V			8	mA
Output Leakage Current	I leak	Output"H", Vo=12V			1	μ A

1mT = 10Gauss

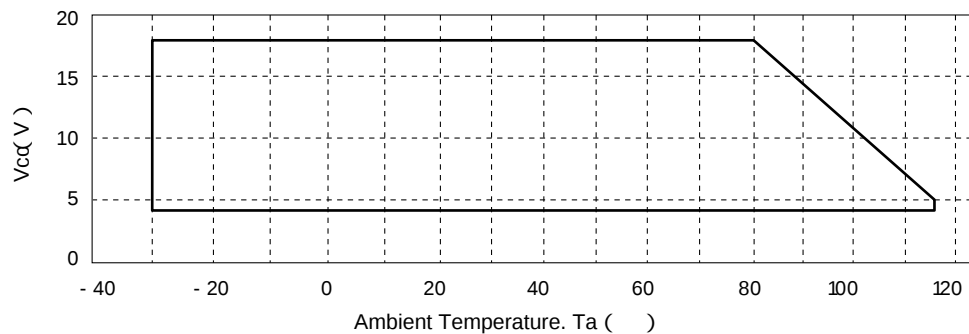
SUPPLY VOLTAGE DERATING CURVE

(Fig. 1)

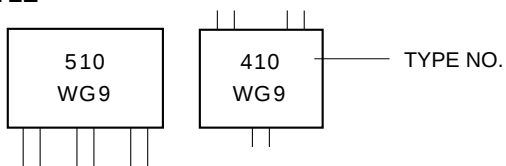
EW-510



EW-410

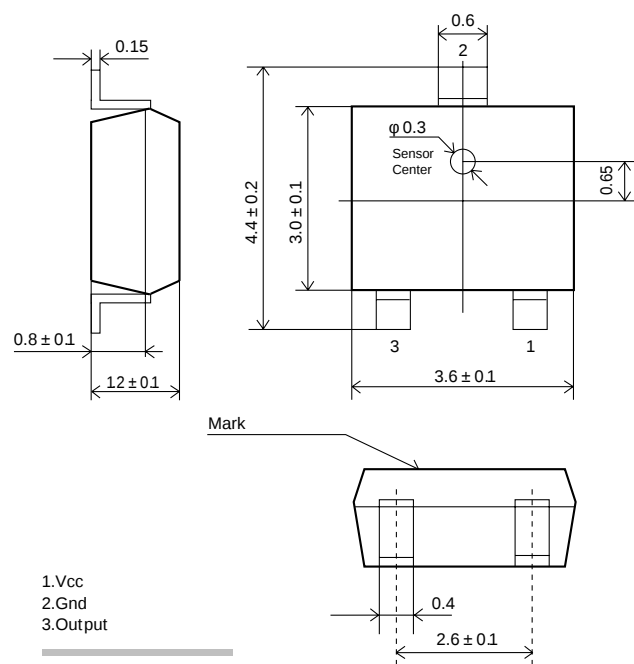


MARK AND SUPPLY STYLE



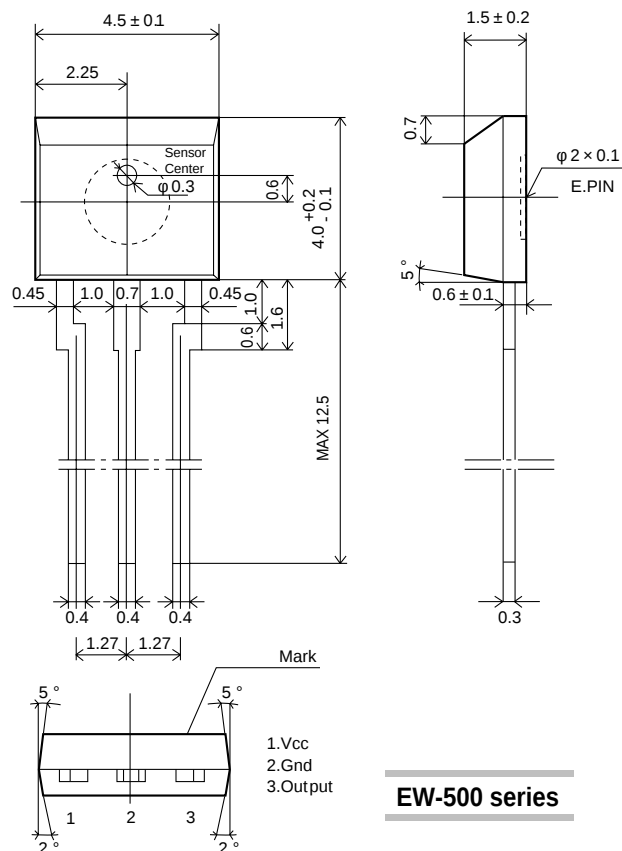
Supplied by
EW-510:500pcs. / Pack.
EW-410:5000pcs. / Reel

PACKAGE [Unit : mm]



- 1.Vcc
- 2.Gnd
- 3.Output

EW-400 series



- 1.Vcc
- 2.Gnd
- 3.Output

EW-500 series