

EW-402, EW-502

BIPOLAR HALL EFFECT LATCHES

ASAHI HALL EFFECT ICs

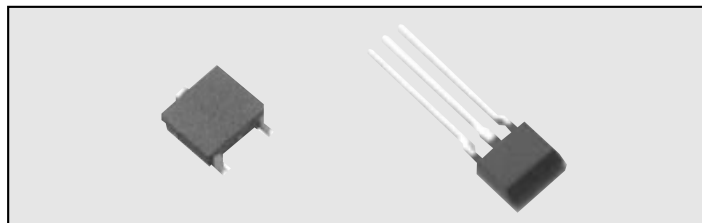
ASAHI KASEI ELECTRONICS Hall Effect ICs are composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package. ASahi KASEI ELECTRONICS Hall Effect ICs have high sensitivity and good stability.

FEATURES

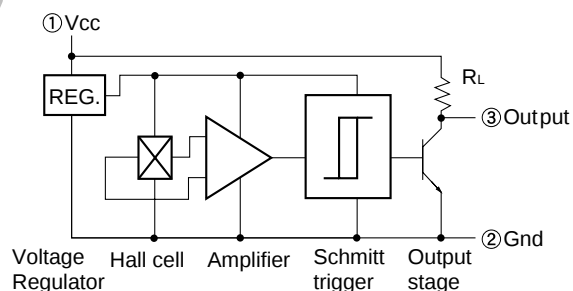
- Effective Performance at Low Magnetic Field (Bop:5mT to 20mT)
- 4.5V to 18V Operation
- Highly Resistant to Mechanical Stress
- Stable Operation in Broad Temperature Range
- Compact Size
- With Load Resistance

APPLICATIONS

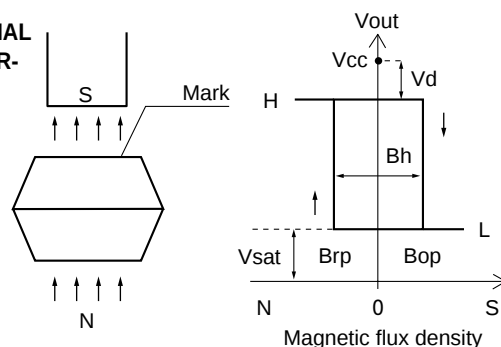
- Rotor Position Sensor for Precision Motors.
- Stroke Sensor
- Proximity Switch
- Encoder
- Current Switch etc.



FUNCTIONAL BLOCK DIAGRAM



OPERATIONAL CHARACTERISTICS



ABSOLUTE MAXIMUM RATINGS(Ta = 25)

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 "

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

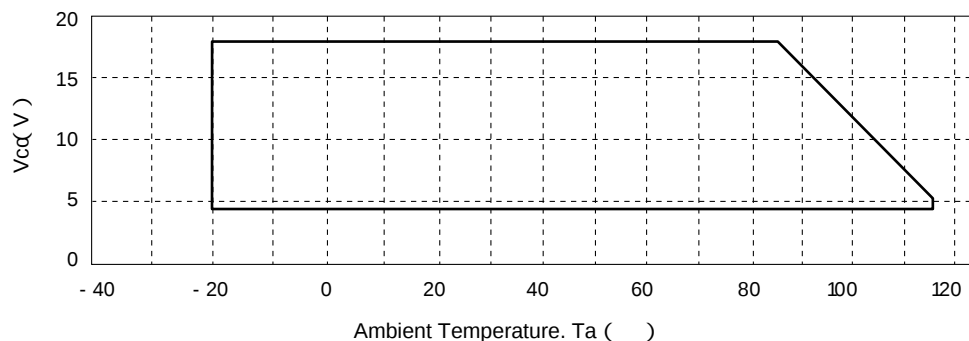
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operate Point	Bop	Vcc=12V	5		20	mT
Release Point	Brp	Vcc=12V	- 20		- 5	mT
Hysteresis	Bh		10			mT
Output Saturation Voltage	Vsat	Output "L", Vcc=12V			0.4	V
Supply Current	I cc	Output "H", Vcc=12V			8	mA
Internal Load Resistance	RL		7		13	KΩ
Output Down Voltage	Vd				20	mV

1mT = 10Gauss

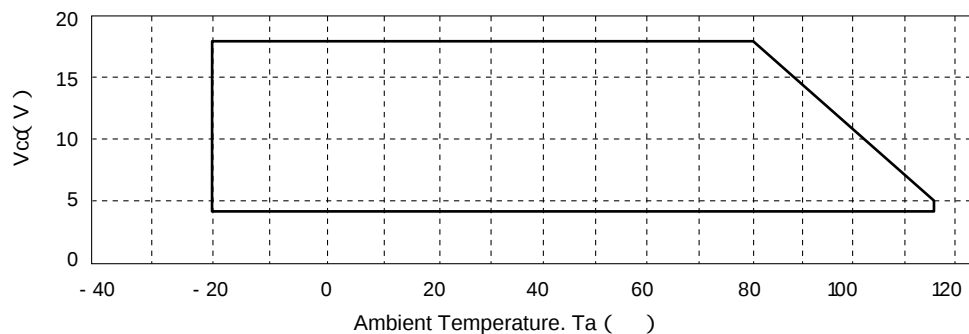
SUPPLY VOLTAGE DERATING CURVE

(Fig . 1)

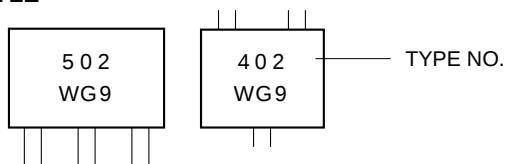
EW-502



EW-402

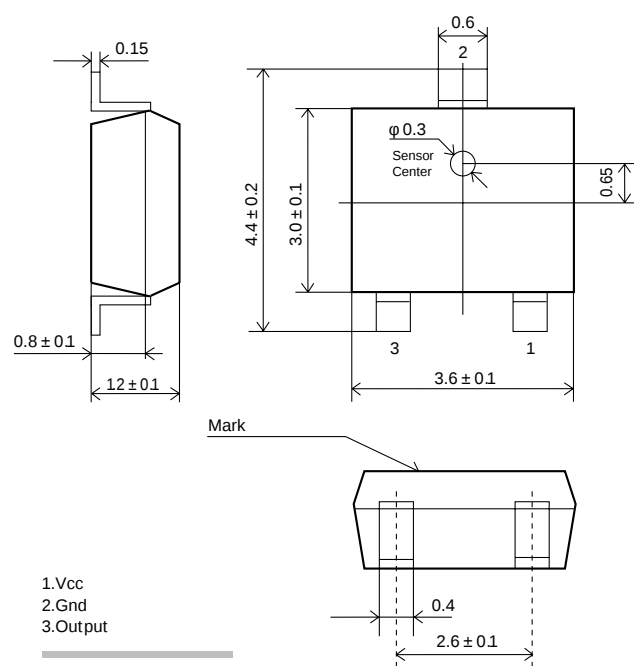


MARK AND SUPPLY STYLE



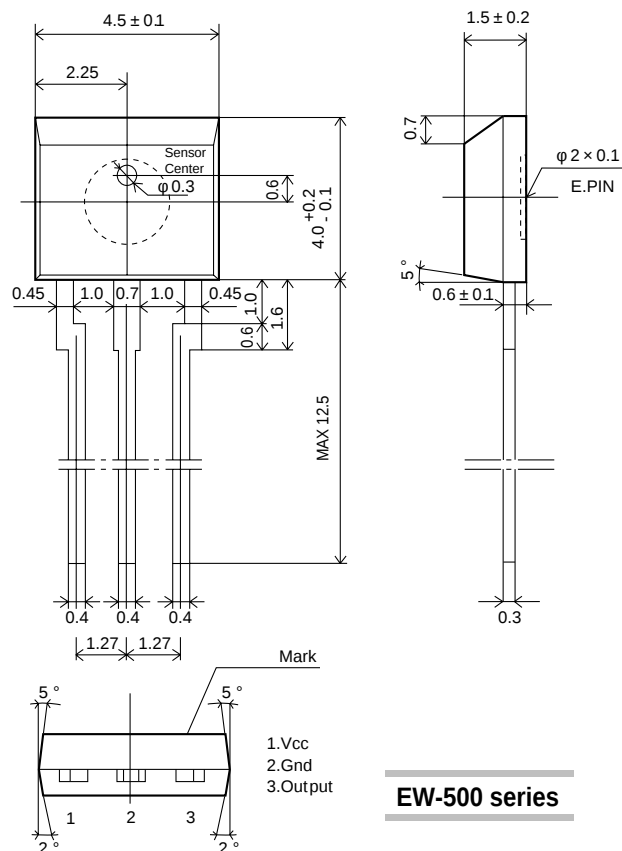
Supplied by
EW-502:500pcs. / Pack.
EW-402:5000pcs. / Reel

PACKAGE [Unit : mm]



1.Vcc
2.Gnd
3.Output

EW-400 series



1.Vcc
2.Gnd
3.Output

EW-500 series