EW-402, EW-502

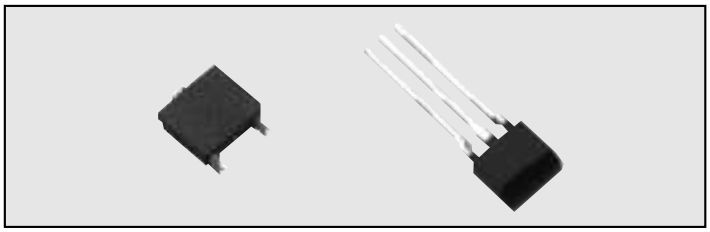
BIPOLAR HALL EFFECT LATCHES

ASAHI HALL EFFECT ICs

ASAHI KASEI ELECTRONICS Hall Effect ICs are composed of a Ultla-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

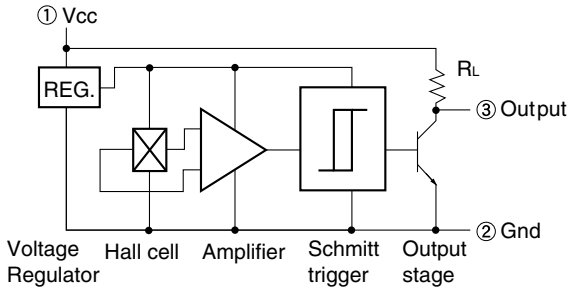
- Effective Performance at Low Magnetic Field (Bop:5mT to 20mT)
- 4.5V to 18V Operation
- Highly Resistant to Mechanical Stress
- Stable Operation in Broad Temperature Range
- Compact Size
- With Load Resistance



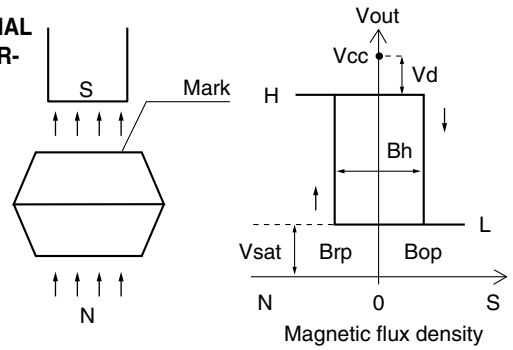
APPLICATIONS

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

FUNCTIONAL BLOCK DIAGRAM



OPERATIONAL CHARACTER-ISTICS



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	˚C
Storage Temperature Range	Tstg	–40~+125	˚C

✻1:Please refer to(Fig.1)"DERATING CURVE"

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

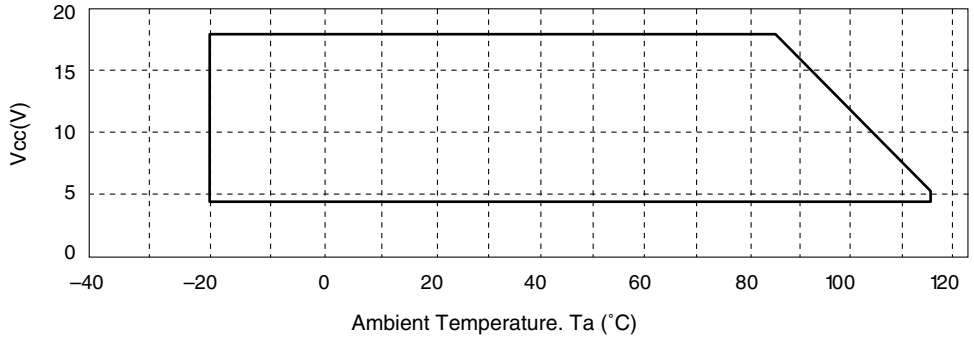
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operate Point	Bop	Vcc=12V	5		20	mT
Release Point	Brp	Vcc=12V	–20		–5	mT
Hysteresis	Bh		10			mT
Output Saturation Voltage	Vsat	Output"L", Vcc=12V			0.4	V
Supply Current	I cc	Output"H", Vcc=12V			8	mA
Internal Load Resistance	RL		7		13	KΩ
Output Down Voltage	Vd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

1mT=10Gauss

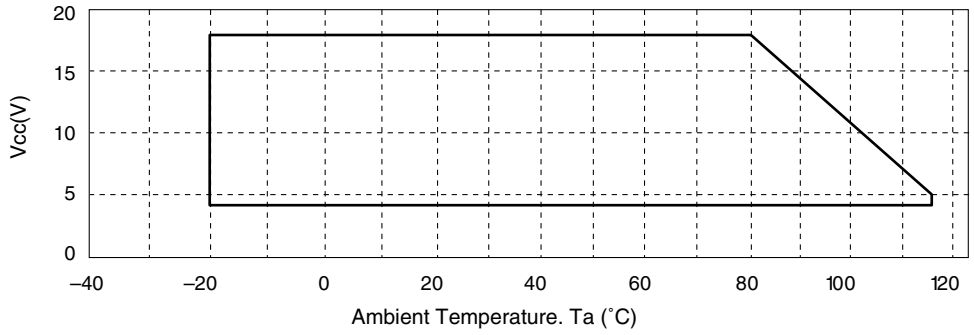
SUPPLY VOLTAGE DERATING CURVE

(Fig. 1)

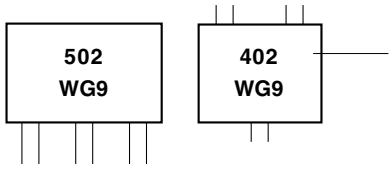
EW-502



EW-402



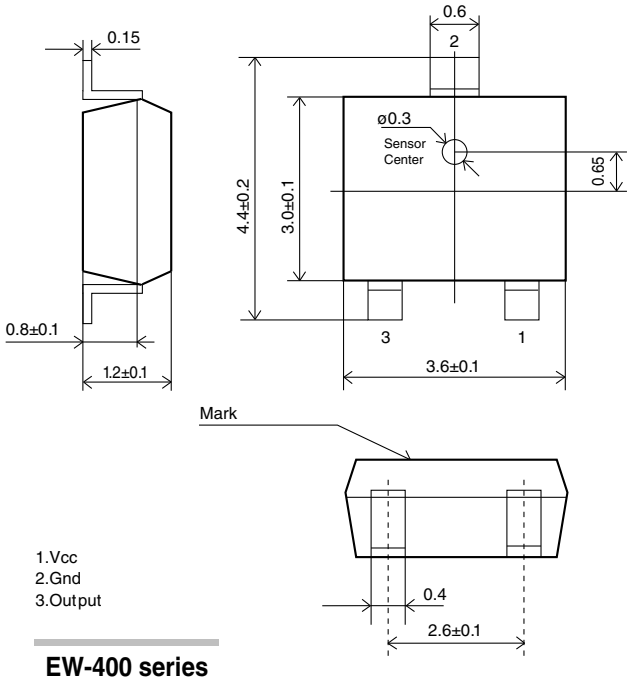
MARK AND SUPPLY STYLE



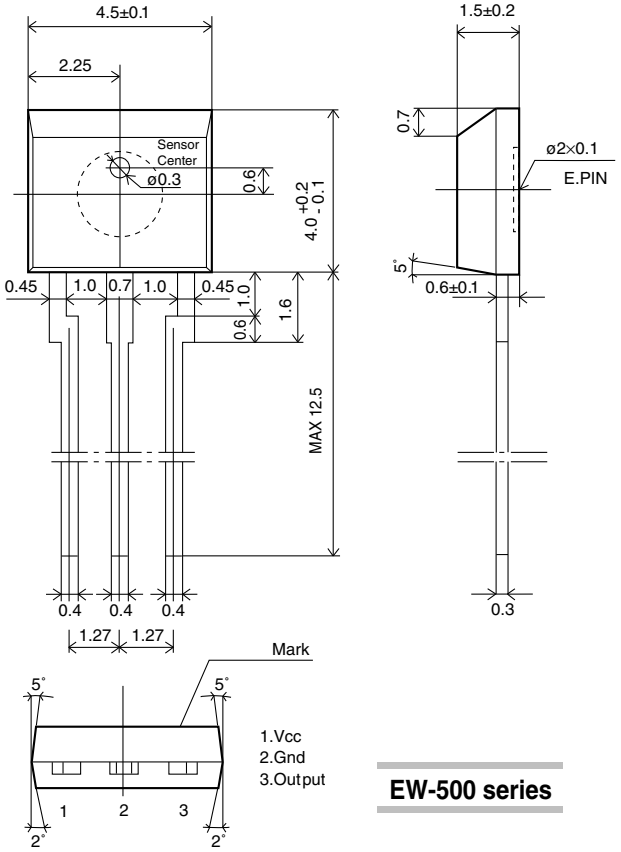
Supplied by
EW-502:500pcs./Pack.
EW-402:5000pcs./Reel

PACKAGE

[Unit : mm]



EW-400 series



EW-500 series