

EW-400, EW-500

BIPOLAR HALL EFFECT LATCHES

ASAHI HALL EFFECT ICs

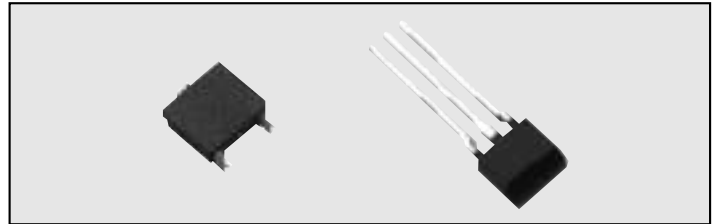
ASAHI KASEI ELECTRONICS Hall Effect ICs are composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package. ASAHI KASEI ELECTRONICS Hall Effect ICs have high sensitivity and good stability.

FEATURES

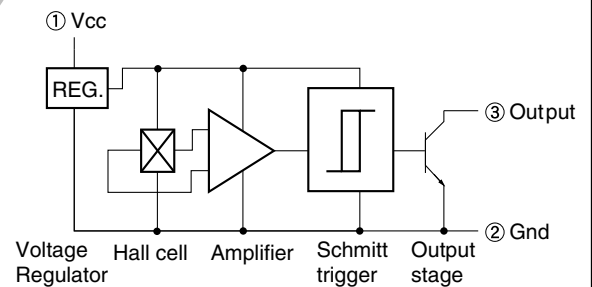
- Effective Performance at Low Magnetic Field (Bop:5mT to 20mT)
- 4.5V to 18V Operation
- Highly Resistant to Mechanical Stress
- Stable Operation in Broad Temperature Range
- Compact Size
- Open Collector

APPLICATIONS

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



FUNCTIONAL BLOCK DIAGRAM

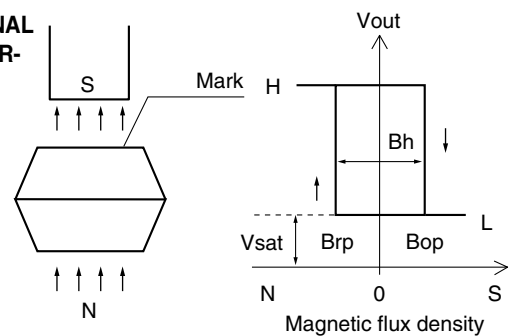


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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	°C
Storage Temperature Range	Tstg	-40~+125	°C

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

OPERATIONAL CHARACTERISTICS



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

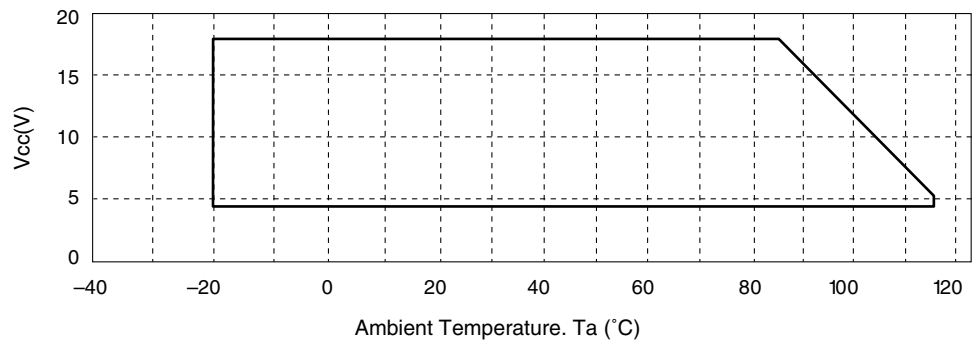
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operate Point	Bop	Vcc= 12V	5		20	mT
Release Point	Brp	Vcc= 12V	-20		-5	mT
Hysteresis	Bh		10			mT
Output Saturation Voltage	Vsat	Output"L", I sink=10mA			0.4	V
Supply Current	I cc	Output"H", Vcc=12V			8	mA
Output Leakage Current	I leak	Output"H", Vo=12V			1	μA

1mT=10Gauss

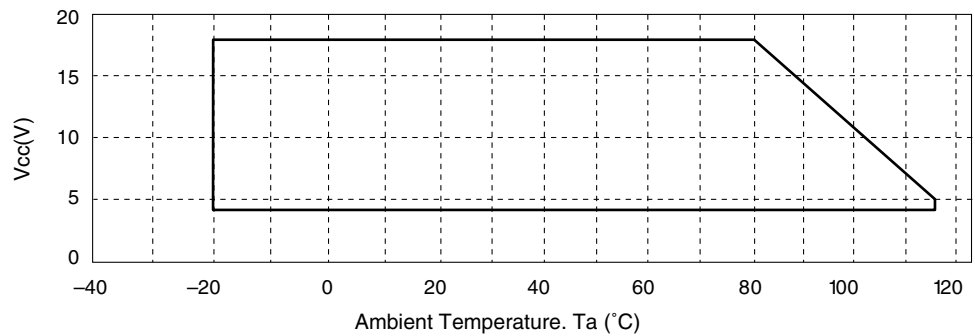
SUPPLY VOLTAGE DERATING CURVE

(Fig. 1)

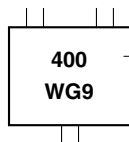
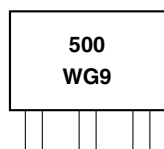
EW-500



EW-400



MARK AND SUPPLY STYLE

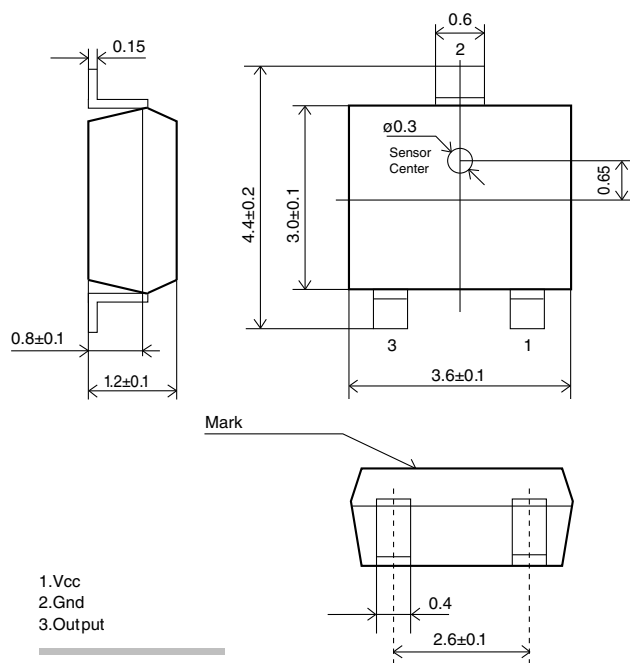


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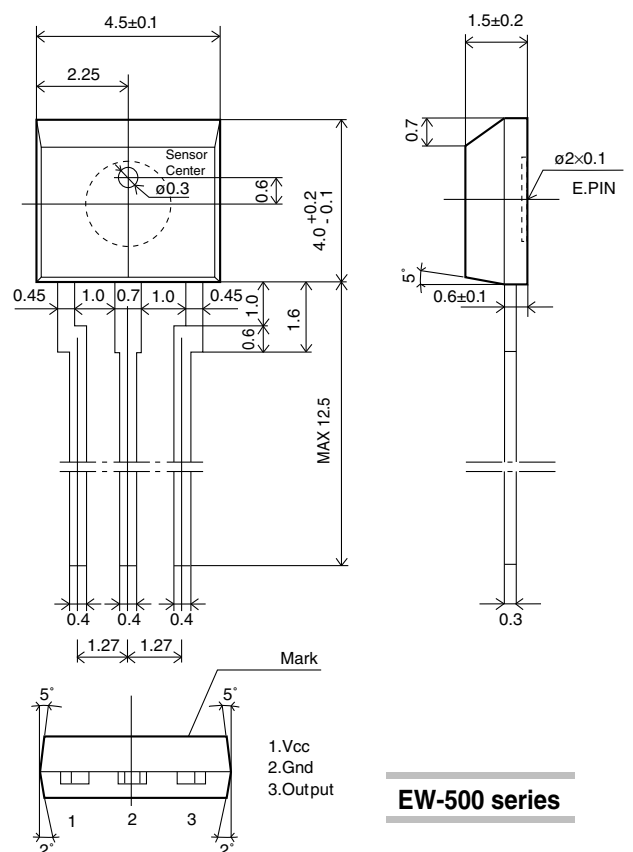
Supplied by
EW-500:500pcs./Pack.
EW-400:5000pcs./Reel

PACKAGE

[Unit : mm]



EW-400 series



EW-500 series