

EW-450, EW-550

UNIPOLAR HALL EFFECT SWITCHES

ASAHI HALL EFFECT ICs

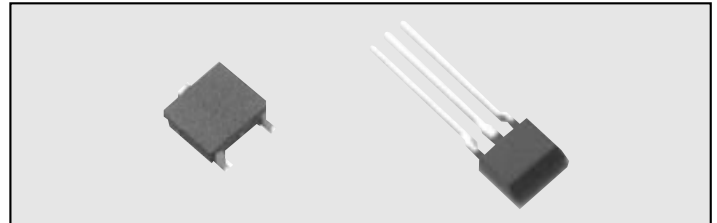
ASAHI KASEI ELECTRONICS Hall Effect ICs are composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package. ASAHI KASEI ELECTRONICS Hall Effect ICs have high sensitivity and good stability.

FEATURES

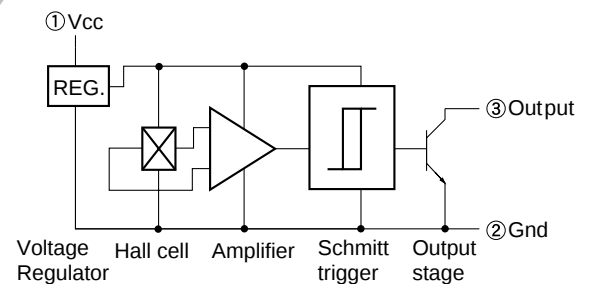
- Bop(max): 20mT
- Effective Performance at Low Magnetic Field
- 4.5V to 18V Operation
- Highly Resistant to Mechanical Stress
- Stable Operation in Broad Temperature Range
- Compact Size
- Open Collector

APPLICATIONS

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



FUNCTIONAL BLOCK DIAGRAM

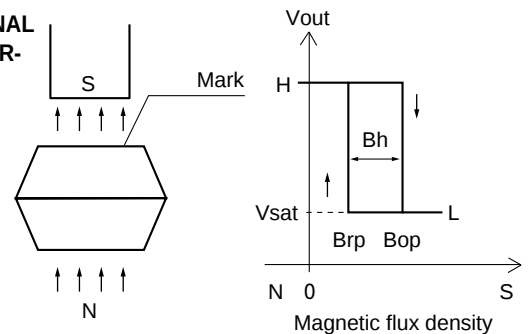


ABSOLUTE MAXIMUM RATINGS(Ta = 25 °C)

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	
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.)

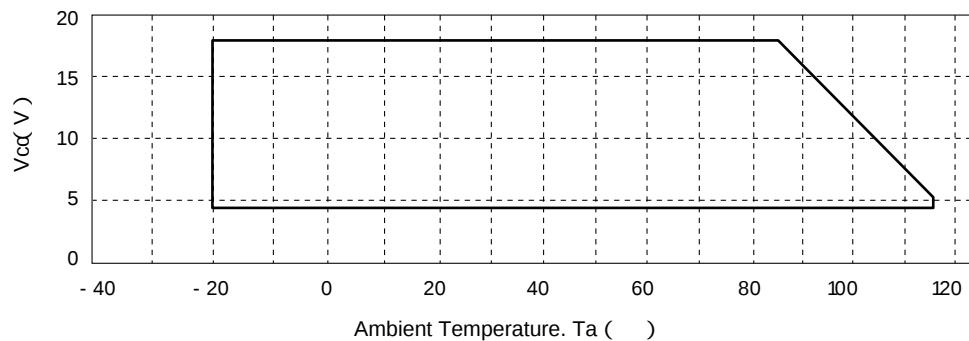
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operate Point	Bop	Vcc=12V			20	mT
Release Point	Brp	Vcc=12V	5			mT
Hysteresis	Bh		1.5			mT
Output Saturation Voltage	Vsat	Output "L", I sink=10mA			0.4	V
Supply Current	I cc	Output "H", Vcc=12V			8	mA
Output Leakage Current	I leak	Output "H", Vo=12V			1	μA

1mT = 10Gauss

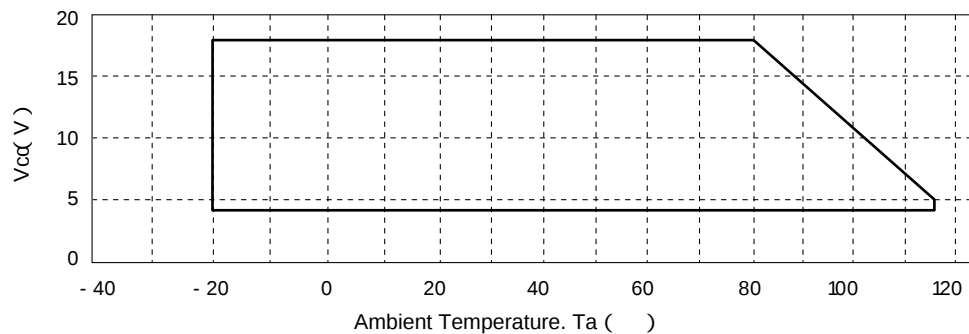
SUPPLY VOLTAGE DERATING CURVE

(Fig . 1)

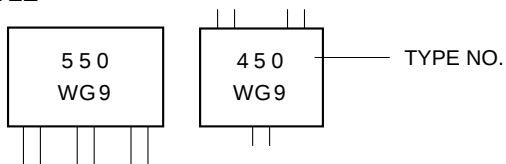
EW-550



EW-450

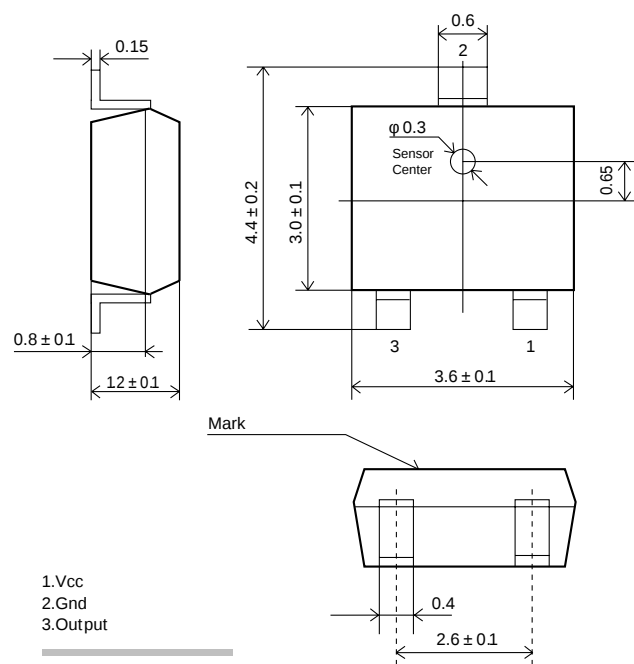


MARK AND SUPPLY STYLE

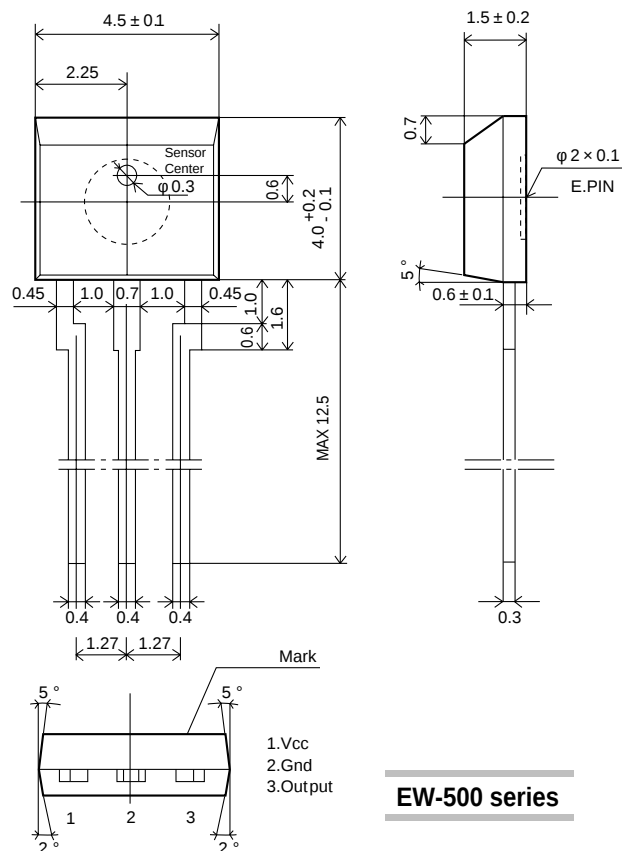


Supplied by
EW-550:500pcs. / Pack.
EW-450:5000pcs. / Reel

PACKAGE [Unit : mm]



EW-400 series



EW-500 series