

EW-412, EW-512

BIPOLAR HALL EFFECT LATCHES

ASAHI HALL EFFECT ICs

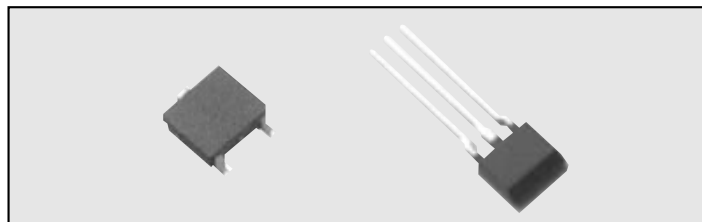
ASAHI KASEI ELECTRONICS Hall Effect ICs are composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package. ASAHI KASEI ELECTRONICS Hall Effect ICs have high sensitivity and good stability.

FEATURES

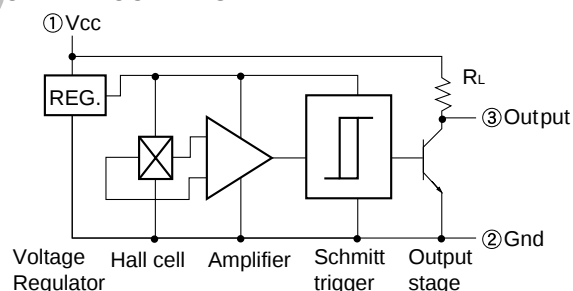
- High Sensitivity (B_{op} : 1mT to 6mT)
- 4.5V to 18V Operation
- Highly Resistant to Mechanical Stress
- Stable Operation in Broad Temperature Range
- Compact Size
- With Load Resistance

APPLICATIONS

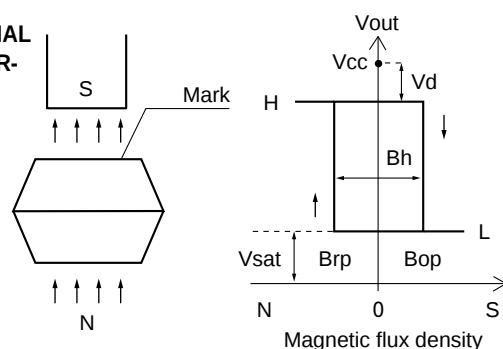
- Rotor Position Sensor for Precision Motors.
- Stroke Sensor
- Proximity Switch
- Encoder
- Current Switch etc.



FUNCTIONAL BLOCK DIAGRAM



OPERATIONAL CHARACTERISTICS



ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

Item	Symbol	Limit	Unit
Supply Voltage *1	V_{cc}	18	V
Output "OFF" Voltage	$V_{o(off)}$	18	V
Output "ON" Current	I_{sink}	15	mA
Operating Temperature Range	T_{opr}	- 30 ~ + 115	
Storage Temperature Range	T_{stg}	- 40 ~ + 125	

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

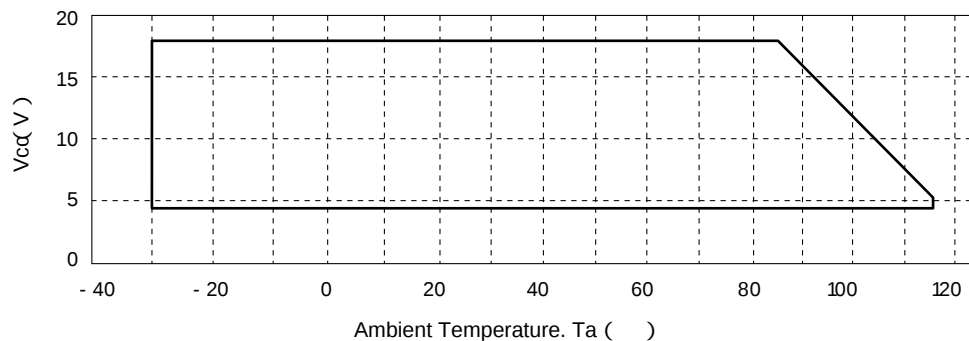
ELECTRICAL CHARACTERISTICS($T_a = 25^\circ\text{C}$, $V_{cc} = 4.5 \sim 18\text{V DC}$.)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operate Point	B_{op}	$V_{cc}=12\text{V}$	1		6	mT
Release Point	B_{rp}	$V_{cc}=12\text{V}$	- 6		- 1	mT
Hysteresis	B_h		2			mT
Output Saturation Voltage	V_{sat}	Output "L", $V_{cc}=12\text{V}$			0.4	V
Supply Current	I_{cc}	Output "H", $V_{cc}=12\text{V}$			8	mA
Internal Load Resistance	R_L		7		13	K Ω
Output Down Voltage	V_d				20	mV

1mT = 10Gauss

(Fig . 1)

EW-512



EW-412

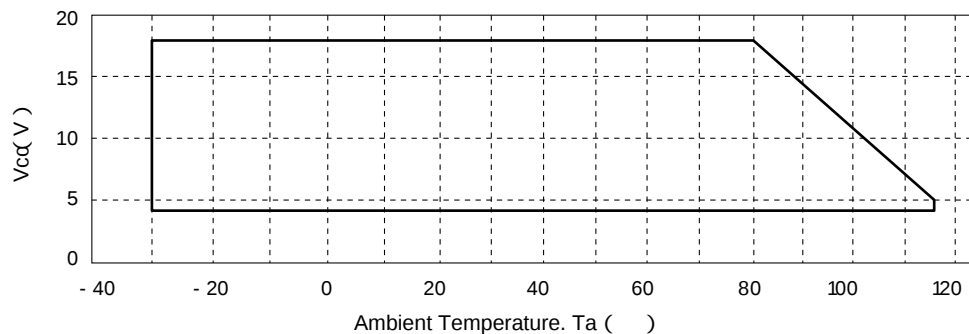
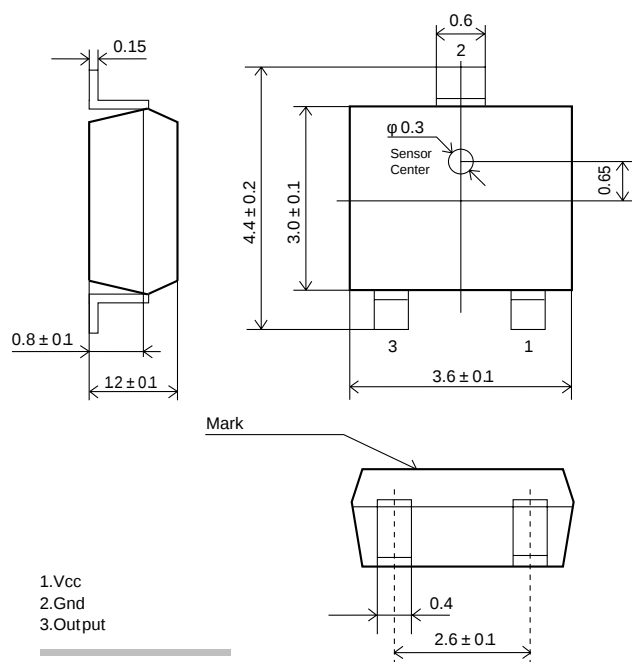


Diagram illustrating the connection of the WG9 component. The component is labeled 512 WG9 and 412 WG9. The 512 WG9 has 5 pins on the left and 2 pins on the right. The 412 WG9 has 4 pins on the left and 2 pins on the right. A line points from the text "TYPE NO." to the 412 WG9 component.

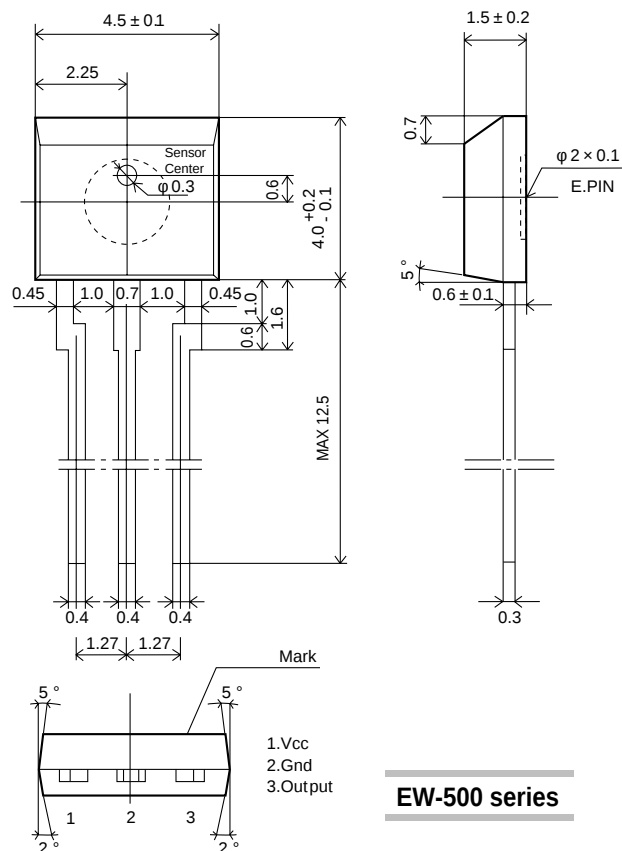
Supplied by
EW-512:500pcs. / Pack.
EW-412:5000pcs. / Reel

PACKAGE [Unit : mm]



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

EW-400 series



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

EW-500 series