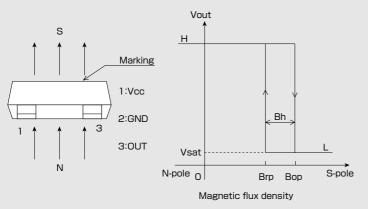
EW-650B

Shipped in packet-tape reel(3000pcs/Reel)

EW-650B is composed of a Ultra-high sensitive InSb Hall element and a signal processing IC chip in a package.

Unipolar Hall Effect Switch	Supply Voltage 3~26.4V	Hall Element Continuous Excitation	Standard Sensitivity Bop:6mT	Output Open Collector	SMT			
Notice: It is requested to read and accent "IMPOBTANT NOTICE" written on the back of the front cover of this catalogue								

Operational Characteristics





●Absolute Maximum Ratings (Ta=25℃)

Item	Symbol	Limit	Unit	
Supply Voltage	V _{cc}	26.4(*)	V	
Output H Voltage	V _{o(off)}	V _{cc}	V	
Output L Current	Isink	10	mA	
Operating Temperature Range	Topr	<i>−</i> 40 ~ 115	°C	
Storage Temperature Range	Tstg	-40 ~ 125	Ĵ	

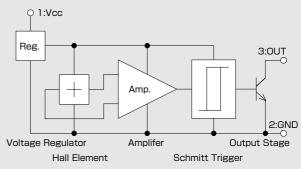
(*) Please refer to Supply Voltage Derating Curve.

●Magnetic and Electrical Characteristics (Ta=25°C)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit	
Supply Voltage	V _{CC}		3	12	26.4	V	
Operating Point	B _{OP}	V _{CC} =12V	3	6	10	mT	
Release Point	B _{rp}	V _{CC} =12V	2.5	5	9.5	mT	
Hysteresis	lysteresis B _h V _{CC} =12V		0.5	1.1	2.5	mT	
Output Saturation Voltage	Vsat	V _{CC} =12V,OUT"L",I _{Sink} =10mA			0.4	V	
Output Leakage Curren IIeak V _{CC} =12V,OUT"H",V _{OUt} =12V				1	μA		
Supply Current	Icc	V _{CC} =12V,OUT"H"		5	6	mA	
1[mT]-10[Gauss							

1 [mT]=10 [Gaus

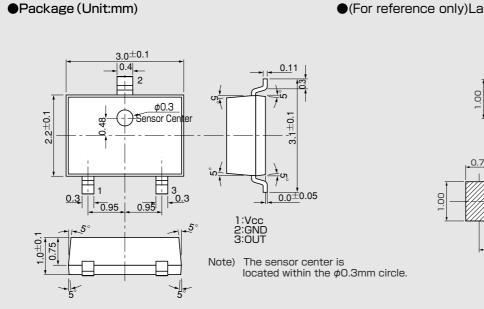
Functional Block Diagram



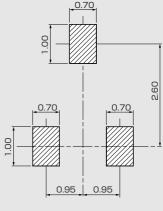
Another product type with pulled-up resistor(EW-652B). Please contact AKEMD to obtain the detail information. •Please be aware that our products are not intended for use in life support equipment, devices, or systems. Use of our products in such applications requires the

advance written approval of our sales staff. Certain applications using semiconductor devices may involve potential risks of personal injury, property damage, or loss of life. In order to minimize these risks, adequate design and operating safeguards should be provided by the customer to minimize inherent or procedural hazards. Inclusion of our products in such applications is understood to be fully at the risk of the customer using our devices or systems.

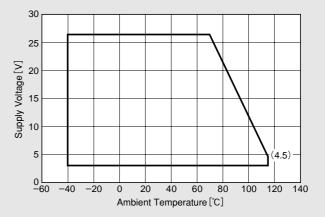




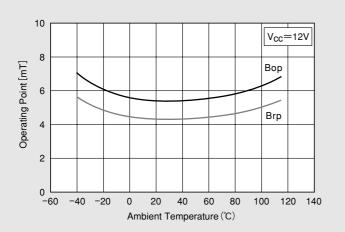




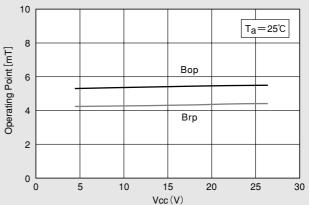
Supply Voltage







Supply Voltage Dependence of Bop. Brp



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