SH-82A

InSb Hall Sensor

Shipped in packet-tape reel (4,000pcs per reel)

Notice : Please check the important points on the back of this catalog when reviewing this product.

Unit

mV

Ω

Ω

mV

%/°C

%/°C

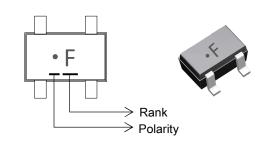
Typ. -1.8

Typ. -1.8

Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Maximum Input Current	Imax	20 (at 25°C)	mA
Operating Temp. Range	Topr	-40 ~ +120	°C
Storage Temp. Range	Tstg	-40 ~ +150	°C

Marking (by Laser)



Electrical Specifications Parameter Symbol Conditions Min. Max. Output Vh Vin=1V, B=50mT 196 320 Hall Voltage Input Rin Ic=0.1mA, B=0mT 240 550 Resistance Output Ic=0.1mA, B=0mT 240 550 Rout Resistance Offset Voltage Vin=1V, B=0mT -7 Vo +7

αVh

αRin

4) $T_1 = 20^{\circ}C$, $T_2 = 0^{\circ}C$, $T_3 = 40^{\circ}C$

1) Vh = Vhm - Vo (Vhm : measured at 50mT)

2) $\alpha Vh = \frac{1}{Vh(T_1)} \times \frac{Vh(T_3) - Vh(T_2)}{(T_3 - T_2)} \times 100\%$ 3) $\alpha Rin = \frac{1}{Rin(T_1)} \times \frac{Rin(T_3) - Rin(T_2)}{(T_3 - T_2)} \times 100\%$

Ava. on 0~40°C.

B=50mT, I=5mA

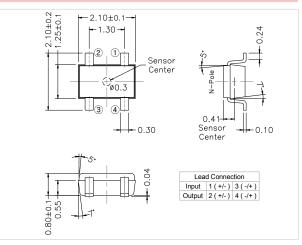
Avg. on 0~40°C,

B=0mT, I=0.1mA

Rank (by Output Hall Voltage)

Output Hall Voltage	Rank	Conditions
196 ~ 236	D	Vin=1V, B=50mT (Constant Voltage)
228 ~ 274	E	
266 ~ 320	F	
-	-	

Dimension Drawing (Unit : mm)



This product is not guaranteed or intended to be used for highly reliable purposes, such as medical, aerospace, transport, traffic signal, combustion, nuclear control, and various safety devices, in which failure or malfunction of the equipment is usually expected to cause serious damage to life, body, property, etc. Therefore, please do not use this product for these purposes unless otherwise authorized by us in writing. In the unlikely event that this product is used for these purposes, we shall not be liable for any damages arising from such use.



Temp. Coeff.

Of Vh

Temp. Coeff.

Of Rin, Rout

× Note.

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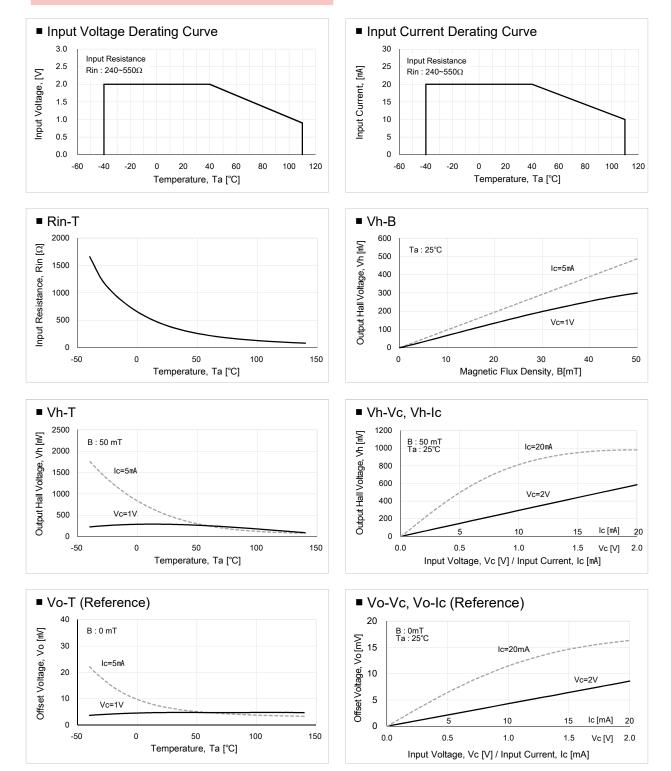
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NANOS Hall Sensor

InSb Hall Sensor

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Characteristic Curves



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NANOS Hall Sensor

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