

# InSb Hall Sensor

## Shipped in packet-tape reel (1,800pcs per reel)

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

## **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

## **Electrical Specifications**

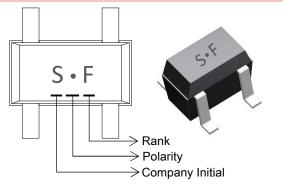
Parameter	Symbol	Conditions	Min.	Max.	Unit
Output Hall Voltage	Vh	Vin=1V, B=50mT	196	320	mV
Input Resistance	Rin	Ic=0.1mA, B=0mT	240	550	Ω
Output Resistance	Rout	Ic=0.1mA, B=0mT	240	550	Ω
Offset Voltage	Vo	Vin=1V, B=0mT	-7	+7	mV
Temp. Coeff. Of Vh	αVh	Avg. on 0~40°C, B=50mT, I=5mA	Тур1.8		%/°C
Temp. Coeff. Of Rin, Rout	αRin	Avg. on 0~40°C, B=0mT, I=0.1mA	Тур1.8		%/°C

- ※ Note.
- 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)  $\alpha Rin = \frac{1}{Rin(T_1)} \times \frac{Rin(T_3) - Rin(T_2)}{(T_3 - T_2)} \times 100\%$ 

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

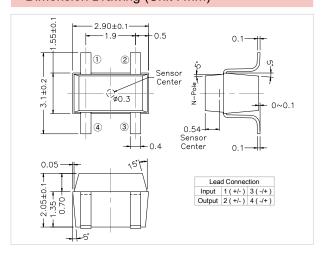
## Marking (by Laser)



#### Rank (by Output Hall Voltage)

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

#### Dimension Drawing (Unit: mm)



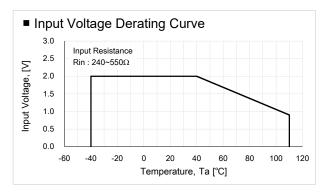
This product is not guaranteed or intended to be used for highly reliable purposes, such as medical, aerospace, transport, traffic signal, combustion, nuclear control, and various safety devices, in which failure or malfunction of the equipment is usually expected to cause serious damage to life, body, 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.

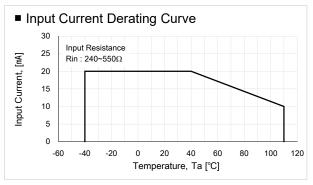
# **NANOS Hall Sensor**

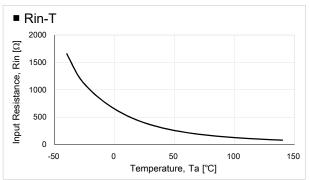
# **SH-22AC**

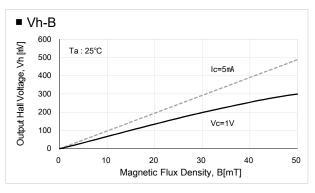
# **InSb Hall Sensor**

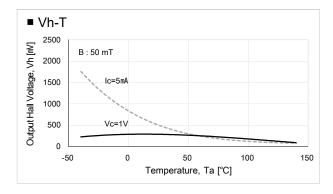
#### Characteristic Curves

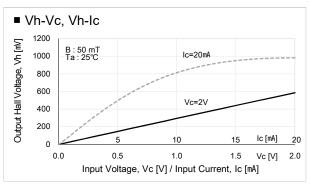


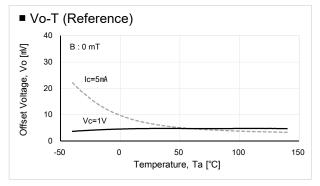


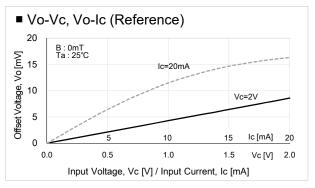














#### IMPORTANT NOTICE

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