

Shipped in packet-tape reel(5,000pcs per reel)

Notice : It is requested to read and accept "IMPORTANT NOTICE" written on the back of the front cover of this catalogue.

## Absolute Maximum Ratings

Item	Symbol		Limit	Unit
Max. Input Current	Ic	Const. Current Drive	20	mA
Operating Temp. Range	Topr.		-40~+110	Ĉ
Storage Temp. Range	Tstg.		-40 ~ +125	ĉ

Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

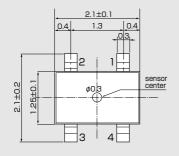
# ●Electrical Characteristics(Ta=25℃)

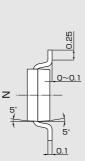
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Output Hall Voltage	$V_{H}^{*}$	Const. Voltage Drive B=50mT, V <sub>C</sub> =1V	168		274	mV
Input Resistance	R <sub>in</sub>	B=0mT, I <sub>C</sub> =0.1mA	250		450	Ω
Output Resistance	R <sub>out</sub>	B=0mT, I <sub>C</sub> =0.1mA	250		450	Ω
Offset Voltage	V <sub>OS</sub> (Vu)	B=0mT, V <sub>C</sub> =1V	-10		+10	mV
Temp. Coefficient of $\mathrm{V}_{\mathrm{H}}$	αV <sub>H</sub>	Average on 0~40°C B=50mT, I <sub>C</sub> =5mA		-1.8		%/C
Temp. Coefficient of Rin	αRin	Average on 0~40°C B=0mT, I <sub>C</sub> =0.1mA		-1.8		%/C
Dielectric Strength		100V D.C	1.0			MΩ

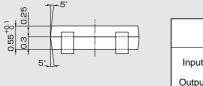
Notes : 1.  $V_H = VHM - V_{os}(Vu)$  (VHM:meter indication)

2.  $\alpha V_{H} = \frac{1}{V_{H}(T_{1})} X \frac{V_{H}(T_{3}) - V_{H}(T_{2})}{(T_{3} - T_{2})} X 100$ 3.  $\alpha R_{in} = \frac{1}{R_{in}(T_{1})} X \frac{R_{in}(T_{3}) - R_{in}(T_{2})}{(T_{3} - T_{2})} X 100$  $T_{1} = 20^{\circ}C, T_{2} = 0^{\circ}C, T_{3} = 40^{\circ}C$ 

## Dimensional Drawing(Unit : mm)







Pinning				
Input	1 (±)	3(∓)		
Output	2(±)	4(∓)		

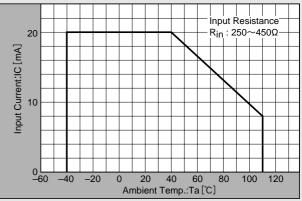


## Classification of Output Hall Voltage (V<sub>H</sub>)

Rank	V <sub>H</sub> [mV]	Conditions		
С	168 ~ 204			
D	196 ~ 236	B=50mT, V <sub>C</sub> =1V Constant Voltage Drive		
E	228 ~ 274	Conclarit Voltage Enve		

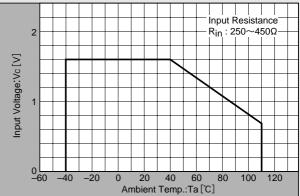
Note : When ordering, specify 3-rank or wider range(e-g-,C,D,E).

## Input Current Derating Curve



Note :  $R_{in}$  of Hall element decreases rapidly as ambient temperature increases. Ensure compliance with input current derating curve envelope, throughout the operating temperature range.

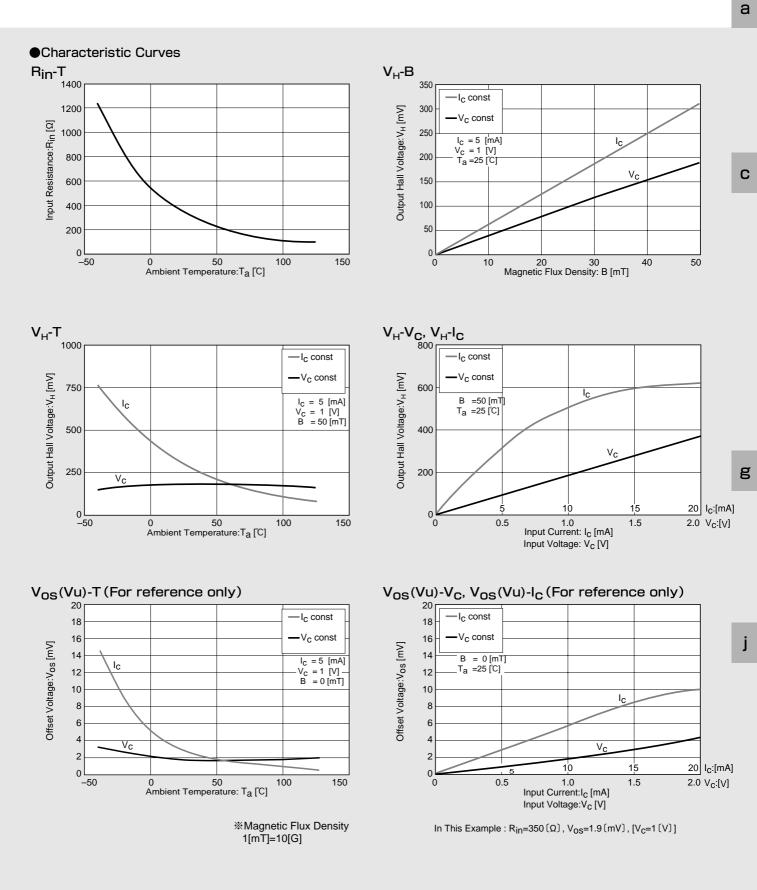
## Input Voltage Derating Curve



Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

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