

Shipped in packet-tape reel(3,000pcs 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.

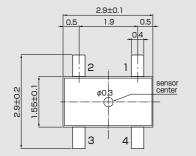
## •Electrical Characteristics( $T_a=25^{\circ}C$ )

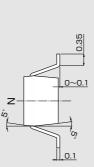
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Output Hall Voltage	V <sub>H</sub> *	Const. Voltage Drive B=50mT, V <sub>C</sub> =1V	168		370	mV
Input Resistance	R <sub>in</sub>	B=0mT, $I_C$ =0.1mA	240		550	Ω
Output Resistance	R <sub>out</sub>	B=0mT, I <sub>C</sub> =0.1mA	240		550	Ω
Offset Voltage	V <sub>OS</sub> (Vu)	B=0mT, V <sub>C</sub> =1V	-7		+7	mV
Temp. Coefficient of V <sub>H</sub>	αV <sub>H</sub>	Average on 0~40°C B=50mT, I <sub>C</sub> =5mA		-1.8		%/C
Temp. Coefficient of R <sub>in</sub>	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

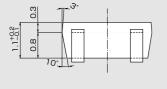
Notes : 1.  $V_{H} = VHM - V_{os}(Vu)$  (VHM:meter indication)

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(∓)			

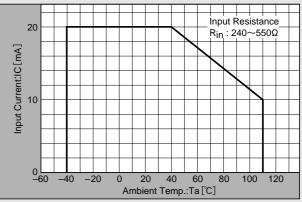


#### Classification of Output Hall Voltage (V<sub>H</sub>)

Rank	Output Hall Voltage V <sub>H</sub> [ mV ]	Conditions
С	168 ~ 204	
D	196 ~ 236	B=50mT, V <sub>C</sub> =1V
E	228 ~ 274	Constant Voltage Drive
F	266 ~ 320	Constant Voltage Drive
G	310 ~ 370	

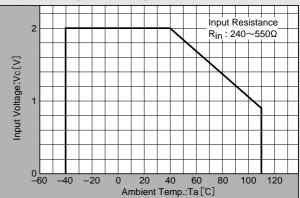
Note : When ordering, specify 3-rank or wider range(e-g-,C,D,E).

#### Input Current Derating Curve



Note :  $\mathsf{R}_{\mathsf{in}}$  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

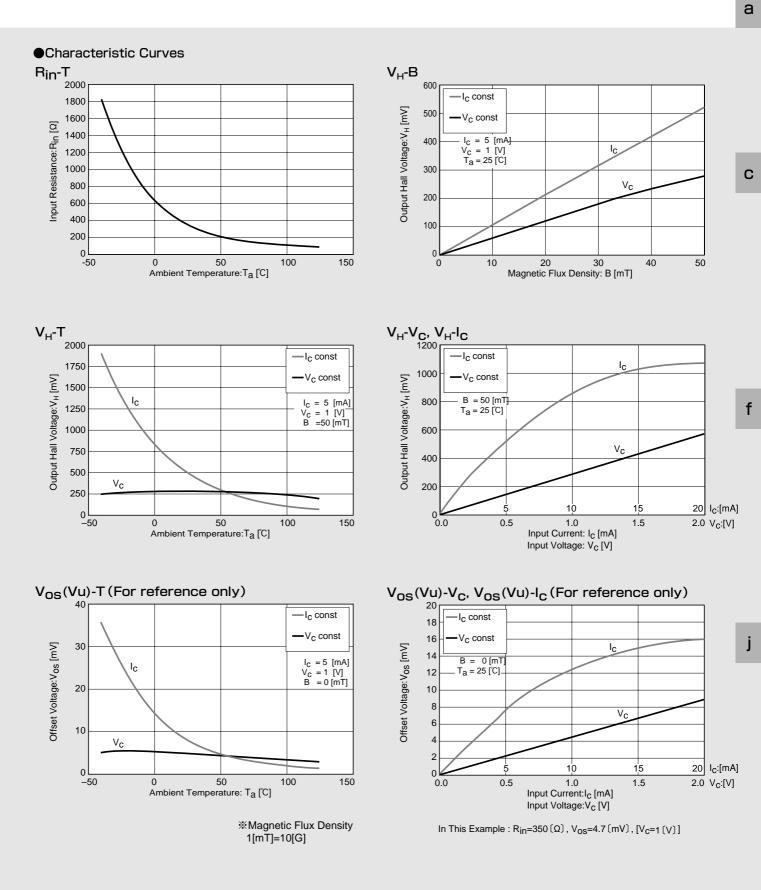


Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

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