

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

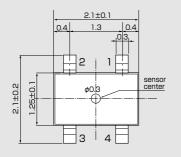
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Output Hall Voltage	V_{H}^{*}	Const. Voltage Drive B=50mT, V _C =1V	168		320	mV
Input Resistance	R _{in}	B=0mT, I _C =0.1mA	250		450	Ω
Output Resistance	R _{out}	B=0mT, I _C =0.1mA	250		450	Ω
Offset Voltage	V _{OS} (Vu)	B=0mT, V _C =1V	-7		+7	mV
Temp. Coefficient of V_H	αV _H	Average on 0∼40℃ B=50mT, I _C =5mA		-1.8		%/C
Temp. Coefficient of Rin	αR _{in} *	Average on 0~40°C B=0mT, I _C =0.1mA		-1.8		%/C
Dielectric Strength		100V D.C	1.0			MΩ

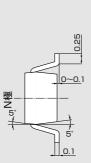
Notes : 1. $V_H = VHM - V_{os}(Vu)$ (VHM:meter indication)

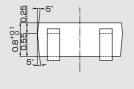
 $\begin{array}{l} 2. \; \alpha V_{H} = \; \frac{1}{V_{H}(T_{1})} \; X \; \frac{V_{H}(T_{3}) - V_{H}(T_{2})}{(T_{3} - T_{2})} \; X \; 100 \\ 3. \; \alpha R_{in} = \; \frac{1}{R_{in}(T_{1})} \; X \; \frac{R_{in}(T_{3}) - R_{in}(T_{2})}{(T_{3} - T_{2})} \; X \; 100 \end{array}$

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

Dimensional Drawing(Unit : mm)







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

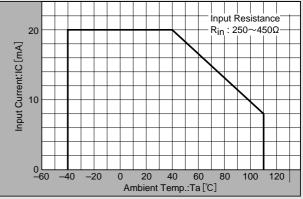


Classification of Output Hall Voltage (V_H)

Rank	V _H [mV]	Conditions
С	168 ~ 204	
D	196 ~ 236	B=50mT, V _C =1V
E	228 ~ 274	Constant Voltage Drive
F	266 ~ 320	

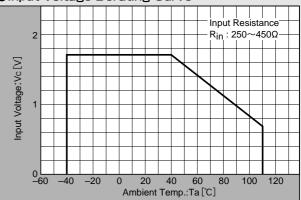
Note : When ordering, specify 3-rank or wider range(e-g-,C,D,E).

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

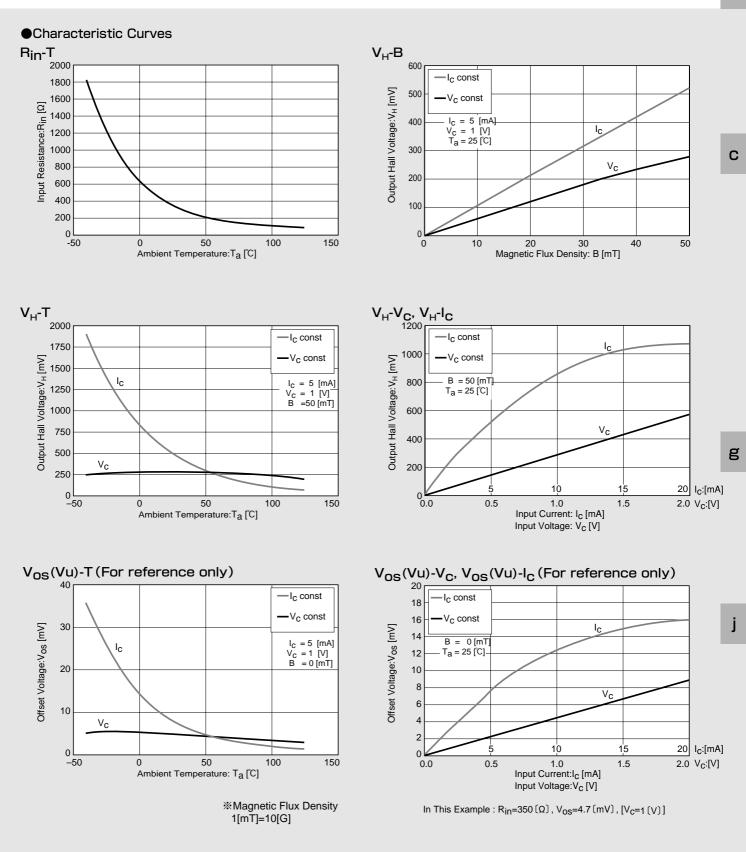


Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

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