

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°C)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Output Hall Voltage	$V_{H}^{*}$	Const. Voltage Drive B=50mT, V <sub>C</sub> =1V	168		320	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	-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 Rin	αR <sub>in</sub> *	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)

 $\begin{array}{l} 2. \ \alpha V_{H} = \frac{1}{V_{H}(T_{1})} X \ \frac{V_{H}(T_{3}) - V_{H}(T_{2})}{(T_{3} - T_{2})} X \ 100 \\ 3. \ \alpha R_{in} = \frac{1}{R_{in}(T_{1})} X \ \frac{R_{in}(T_{3}) - R_{in}(T_{2})}{(T_{3} - T_{2})} X \ 100 \end{array}$  $T_1 = 20^{\circ}C, T_2 = 0^{\circ}C, T_3 = 40^{\circ}C$ 

### Dimensional Drawing(Unit : mm)



0.4±0.2

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
E	228 ~ 274	Constant Voltage Drive
F	$266 \sim 320$	

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

### Input Current Derating Curve



Note : R<sub>in</sub> 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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27

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