

Shipped in bulk(500pcs per pack)

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.

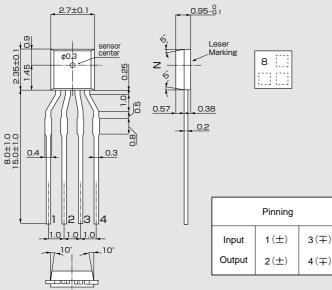
●Electrical Characteristics(Ta=25℃)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Output Hall Voltage	V_{H}^{*}	Const. Voltage Drive B=50mT, V _C =1V	122		204	mV
Input Resistance	R _{in}	B=0mT, I _C =0.1mA	240		550	Ω
Output Resistance	R _{out}	B=0mT, I _C =0.1mA	240		550	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°C B=50mT, I _C =5mA		-1.8		%/C
Temp. Coefficient of Rin	αRin	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)

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)



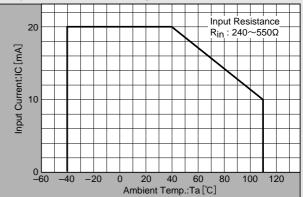


Classification of Output Hall Voltage (V_H)

Rank	V _H [mV]	Conditions		
А	122 ~ 150			
В	144 ~ 174	B=50mT, V _C =1V Constant Voltage Drive		
С	168 ~ 204	Constant Voltage Drive		

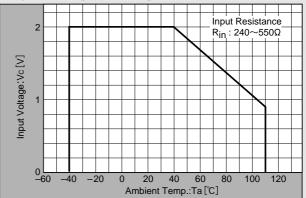
Note : When ordering, specify 3-rank or wider range(e-g-,A,B,C).

Input Current Derating Curve



Note : $R_{\rm in}$ 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

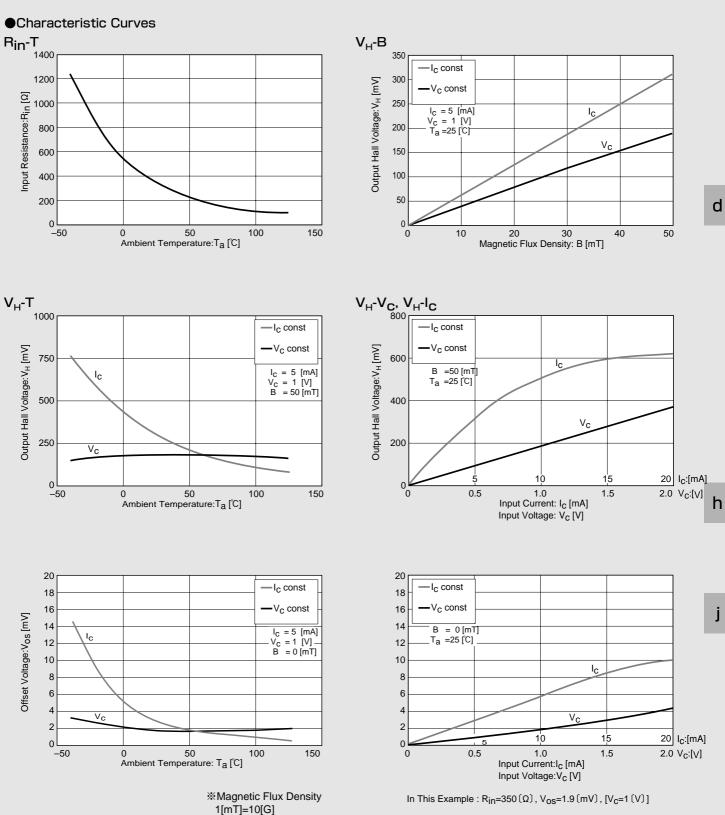


Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

ASAHI KASEI MICRODEVICES

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IMPORTANT NOTICE

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