imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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.

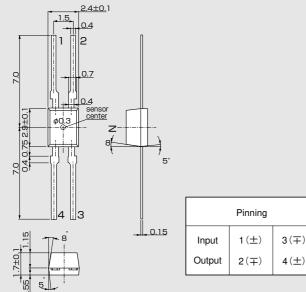
●Electrical Characteristics(Ta=25℃)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Output Hall Voltage	V_{H}^{*}	Const. Voltage Drive B=50mT, V _C =1V	168		320	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	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)

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

Dimensional Drawing(Unit : mm)



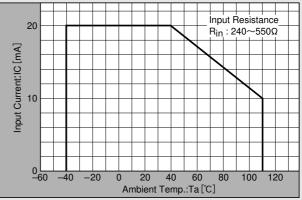


Classification of Output Hall Voltage (V_H)

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			

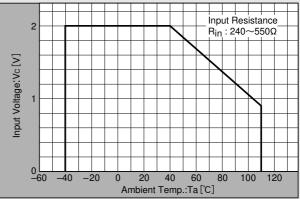
Note : When ordering, specify 3-rank or wider range(e·g·,C,D,E).

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

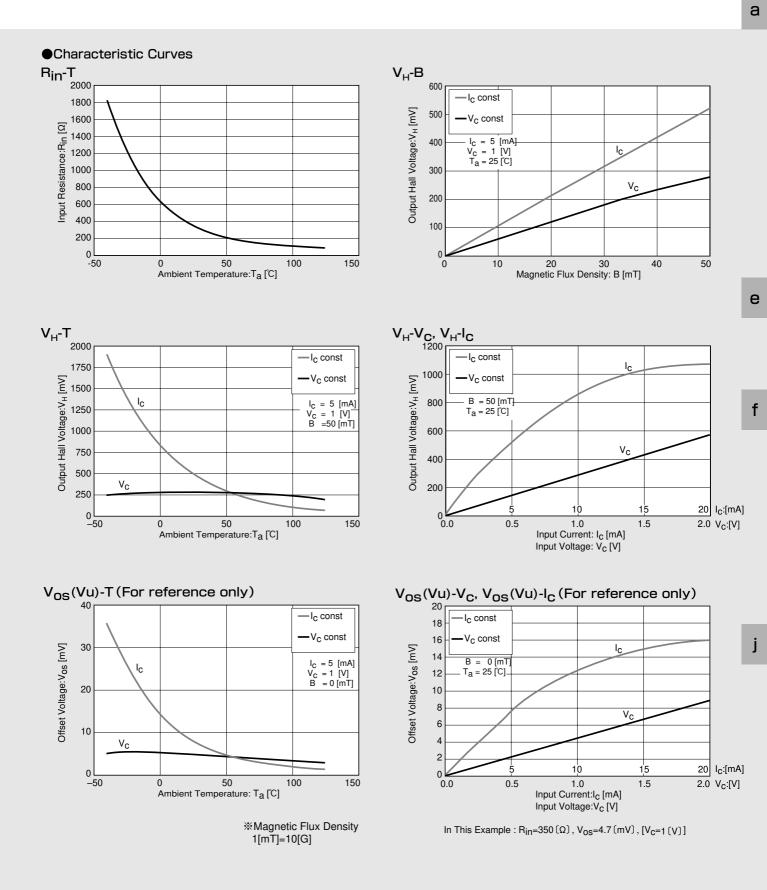


Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

ASAHI KASEI MICRODEVICES

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