

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.

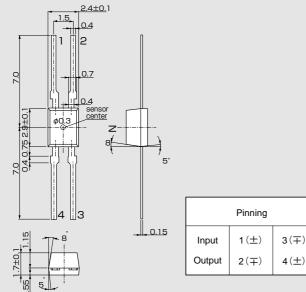
●Electrical Characteristics(Ta=25℃)

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℃ 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)



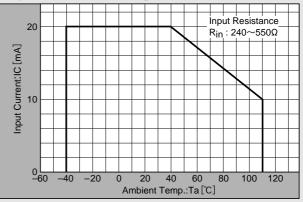


Classification of Output Hall Voltage (V_H)

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			

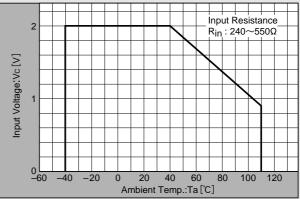
Note : When ordering, specify 3-rank or wider range(e-g-,C,D,E).

Input Current Derating Curve



Note : $R_{\rm in}$ 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

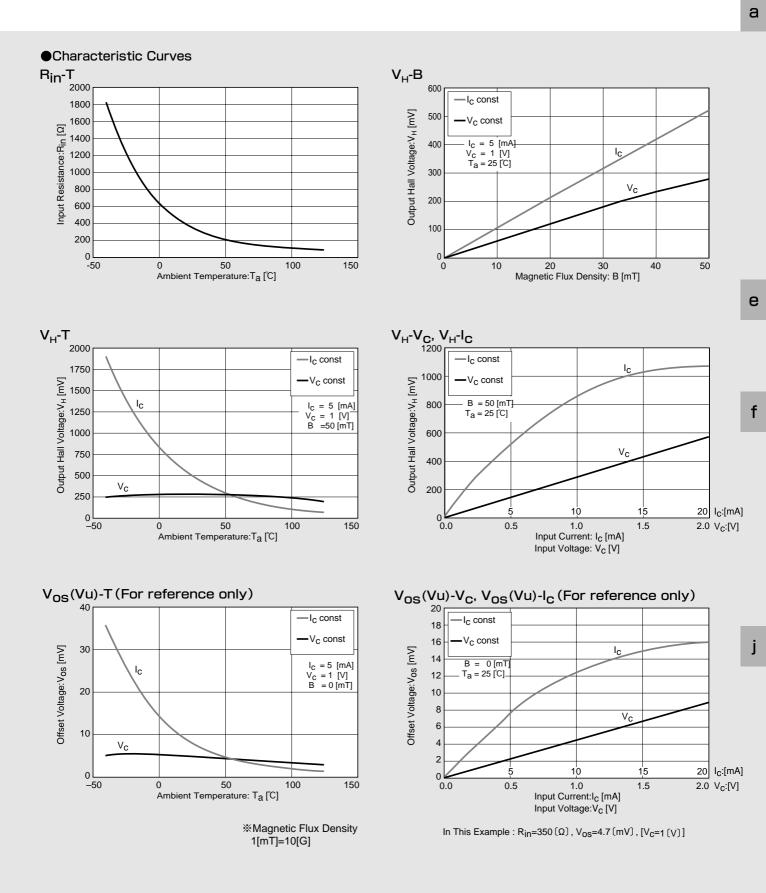


Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

ASAHI KASEI MICRODEVICES

•Please be aware that our products are not intended for use in life support equipment, devices, or systems. Use of our products in such applications requires the advance written approval of our sales staff.

Certain applications using semiconductor devices may involve potential risks of personal injury, property damage, or loss of life. In order to minimize these risks, adequate design and operating safeguards should be provided by the customer to minimize inherent or procedural hazards. Inclusion of our products in such applications is understood to be fully at the risk of the customer using our devices or systems.



IMPORTANT NOTICE

- These products and their specifications are subject to change without notice. When you consider any use or application of these products, please make inquiries the sales office of ASAHI KASEI MICRODEVICES CORPORATION (AKM) or authorized distributors as to current status of the products.
- AKM assumes no liability for infringement of any patent, intellectual property, or other rights in the application or use of any information contained herein.
- Any export of these products, or devices or systems containing them, may require an
 export license or other official approval under the law and regulations of the country of
 export pertaining to customs and tariffs, currency exchange, or strategic materials.
- AKM products are neither intended nor authorized for use as critical components_{Note1}) in any safety, life support, or other hazard related device or system_{Note2}), and AKM assumes no responsibility for such use, except for the use approved with the express written consent by Representative Director of AKM. As used here:

Note1) A critical component is one whose failure to function or perform may reasonably be expected to result, whether directly or indirectly, in the loss of the safety or effectiveness of the device or system containing it, and which must therefore meet very high standards of performance and reliability.

Note2) A hazard related device or system is one designed or intended for life support or maintenance of safety or for applications in medicine, aerospace, nuclear energy, or other fields, in which its failure to function or perform may reasonably be expected to result in loss of life or in significant injury or damage to person or property.

 It is the responsibility of the buyer or distributor of AKM products, who distributes, disposes of, or otherwise places the product with a third party, to notify such third party in advance of the above content and conditions, and the buyer or distributor agrees to assume any and all responsibility and liability for and hold AKM harmless from any and all claims arising from the use of said product in the absence of such notification.

ASAHI KASEI MICRODEVICES CORPORATION

Headquarters

1-105 Kanda, Jinbocho, Chiyoda-ku, Tokyo 101-8101, Japan

TEL:+81-3-3296-3961 FAX:+81-3-3296-3962

Osaka Office

3-23 Nakanoshima 3-Chome, Kita-ku,Osaka 530-8205,Japan

TEL:+81-6-7636-3133 FAX:+81-6-7636-3132

URL http://www.asahi-kasei.co.jp/ake/en/

Europe Office

Market House, 19/21 Market Place, Wokingham, Berkshire, RG40 1AP, U.K.

TEL:+44-118-979-5777 FAX:+44-118-979-7885

URL http://www.akm.com/

Shanghai Office

Room2321,Shanghai Central Plaza,381 Huaihai Zhong Road,Shanghai 200020,China TEL:+86-21-6391-6111 FAX:+86-21-6391-6686

URL http://www.akm.com/

Seoul Office

8th fi.,KTP B/D,27-2 Yoido-dong,Youngdungpo-gu,Seoul 150-742,Korea TEL:+82-2-3775-0990 FAX:+82-2-3775-1991

AKM Semiconductor,Inc

```
Western US Sales

1731 Technology Drive Suite 500 San Jose,CA95110,USA

TEL: +1-408-436-8580 FAX: +1-408-436-7591

Eastern US Sales

629 Bamford Road Cherry Hill,NJ 08003,USA

TEL: +1-856-424-7211 FAX: +1-856-424-7344

URL http://www.akm.com/
```